

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198734

Luminaire Tested: **XNV-AF-01-LED-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SL4
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5902.4 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

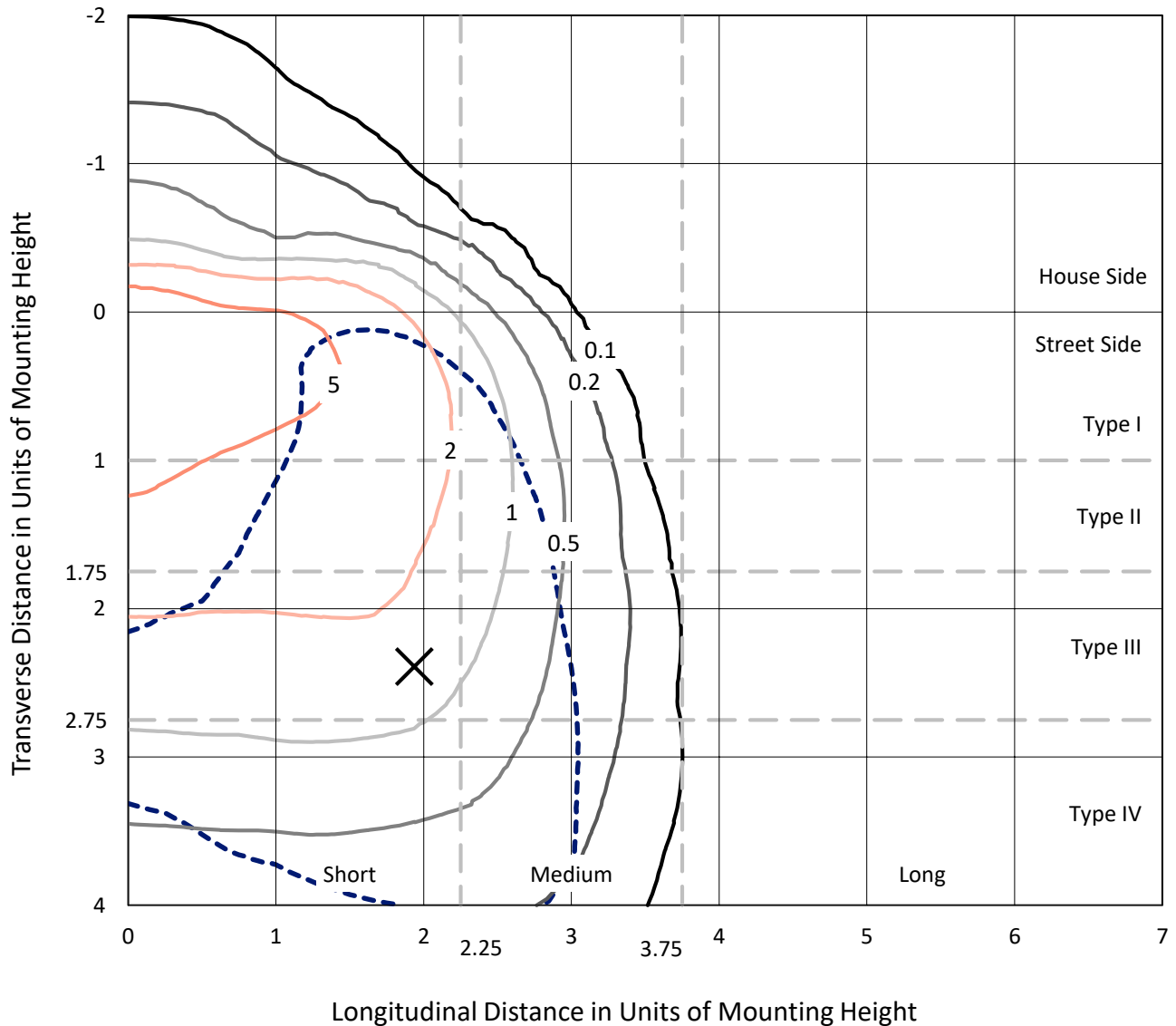


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

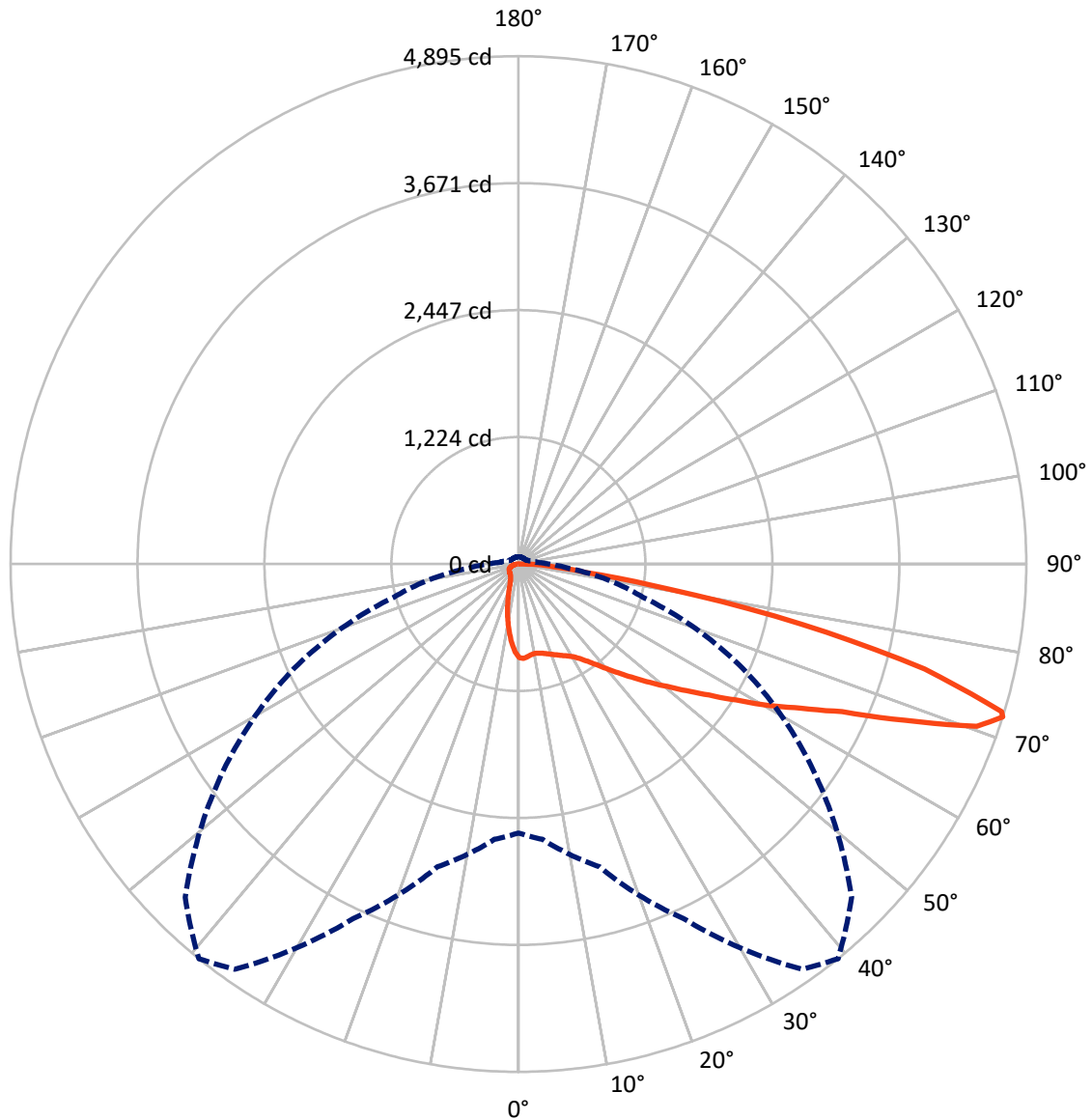


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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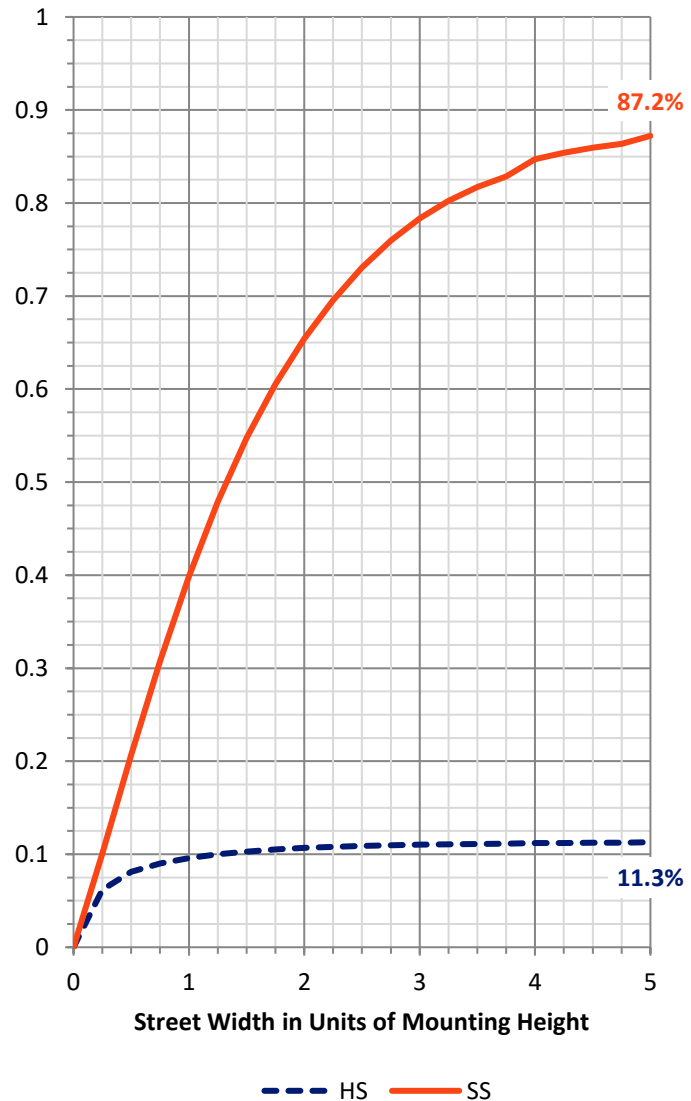
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	676.8	0.0	676.8
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	5225.6	0.0	5225.6
	% Fixture	88.5	0.0	88.5
Total	Lumens	5902.4	0.0	5902.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	1.3
10°-20°	194.6	3.3
20°-30°	303.3	5.1
30°-40°	467.0	7.9
40°-50°	761.4	12.9
50°-60°	1183.1	20.0
60°-70°	1583.6	26.8
70°-80°	1138.8	19.3
80°-90°	193.1	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5902.4	100.0
0°-180°	5902.4	100.0

Coefficient of Utilization



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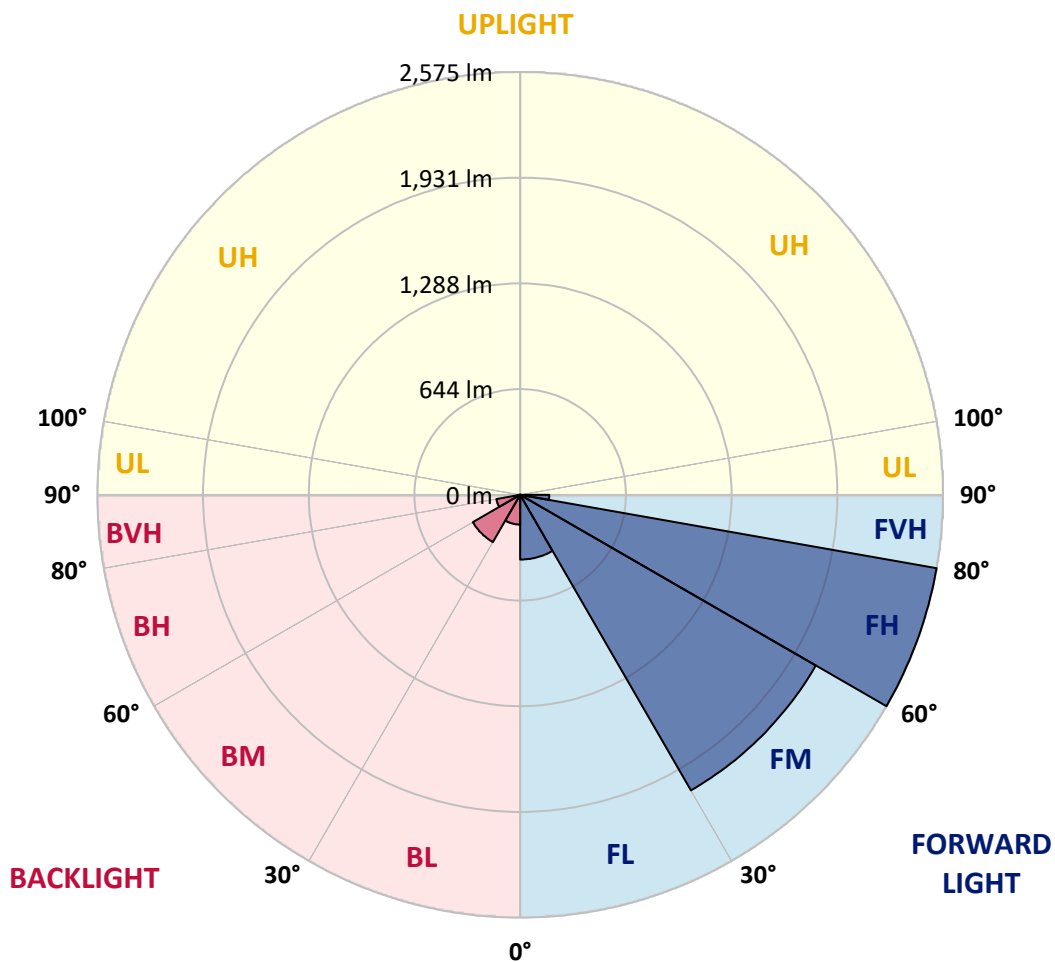
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	394.3	6.7			
FM	(30°-60°)	2078.9	35.2			
FH	(60°-80°)	2575.3	43.6			G2/5000
FVH	(80°-90°)	177.1	3.0			G2/225
BL	(0°-30°)	181.2	3.1	B1/500		
BM	(30°-60°)	332.6	5.6	B1/1000		
BH	(60°-80°)	147.1	2.5	B1/500		G1/500
BVH	(80°-90°)	16.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	901.4	901.4	901.4	901.4	901.4	901.4	901.4	901.4	901.4	901.4	901.4
2.5°	920.9	921.2	920.0	916.5	913.3	911.8	908.9	904.2	897.8	893.4	889.9
5°	912.1	913.3	912.5	906.5	901.0	897.8	893.4	886.8	878.4	874.8	866.5
7.5°	905.4	906.1	903.8	897.0	886.4	882.4	874.4	865.7	858.3	853.0	843.1
10°	900.6	901.4	899.4	892.7	880.8	876.1	866.5	857.0	847.1	840.8	829.7
12.5°	893.9	895.5	895.5	892.3	884.3	881.2	871.7	861.4	852.3	845.6	831.7
15°	892.7	894.7	898.3	897.8	895.5	893.0	885.6	875.2	867.4	859.4	842.4
17.5°	902.5	906.9	914.1	916.5	914.9	909.7	901.0	891.5	882.8	875.2	854.3
20°	927.5	930.0	940.6	945.4	937.4	930.0	918.4	906.1	898.3	892.3	865.3
22.5°	965.2	968.3	977.1	977.5	960.9	951.8	937.0	922.0	914.5	912.1	880.5
25°	1025.4	1024.6	1027.0	1017.1	986.9	976.3	958.5	941.0	935.9	940.6	902.5
27.5°	1097.5	1095.6	1088.0	1062.2	1016.7	1002.8	981.4	966.0	966.0	977.1	932.7
30°	1180.8	1178.7	1154.2	1111.0	1052.0	1036.1	1013.5	997.3	1005.7	1027.0	973.5
32.5°	1268.7	1261.6	1227.1	1169.2	1102.3	1084.8	1063.1	1046.4	1062.2	1098.8	1032.2
35°	1351.5	1347.5	1305.2	1236.6	1167.3	1152.7	1137.5	1117.0	1142.3	1199.0	1115.0
37.5°	1437.1	1434.0	1382.0	1309.1	1246.5	1236.6	1224.0	1209.6	1250.5	1324.9	1227.1
40°	1532.6	1526.2	1460.9	1387.9	1338.8	1334.1	1327.4	1323.4	1389.2	1500.1	1368.9
42.5°	1640.7	1628.4	1544.0	1474.8	1439.5	1443.5	1439.9	1455.8	1556.3	1702.2	1537.7
45°	1764.4	1739.8	1626.9	1567.1	1550.8	1566.6	1574.2	1614.6	1754.1	1935.5	1726.3
47.5°	1880.1	1848.4	1717.6	1667.3	1676.4	1703.7	1725.1	1796.5	1970.8	2166.1	1919.0
50°	1986.7	1951.0	1814.7	1771.1	1815.5	1854.3	1898.7	1999.4	2201.4	2403.5	2095.6
52.5°	2065.5	2039.8	1911.8	1884.5	1975.2	2026.7	2097.6	2224.8	2434.4	2629.7	2253.4
55°	2126.5	2112.7	2006.5	2014.4	2155.9	2229.5	2315.6	2461.7	2680.8	2832.6	2380.1
57.5°	2197.1	2186.8	2114.6	2171.3	2380.1	2472.8	2574.3	2736.7	2915.4	3011.3	2479.5
60°	2271.6	2271.6	2235.0	2360.3	2660.6	2766.8	2867.8	2994.3	3149.2	3172.2	2519.9
62.5°	2327.8	2342.5	2355.5	2561.6	2926.9	3058.8	3169.8	3291.0	3391.3	3251.4	2424.9
65°	2409.5	2440.8	2514.4	2794.2	3256.6	3429.3	3579.1	3680.9	3587.4	3188.4	2114.6
67.5°	2549.7	2596.0	2753.0	3140.5	3761.4	4020.1	4165.5	3989.6	3548.9	2791.7	1619.7
70°	2676.0	2741.5	3009.7	3579.9	4417.5	4686.1	4619.1	3917.8	3090.9	2046.5	996.5
72°	2592.1	2663.5	3021.6	3771.2	4768.2	4894.9	4541.9	3472.1	2388.4	1248.9	491.3
72.5°	2537.0	2611.1	2983.1	3766.5	4777.7	4868.4	4434.5	3295.0	2168.1	1092.8	397.4
75°	2119.3	2182.8	2565.2	3338.2	4210.3	4043.8	3460.6	2132.4	996.5	353.0	204.5
77.5°	1384.1	1432.3	1768.8	2312.8	2949.1	2789.0	2106.4	998.5	373.7	214.3	153.7
80°	695.4	729.9	946.5	1216.0	1591.6	1464.5	972.3	483.0	250.0	154.9	120.8
82.5°	483.8	515.5	651.8	620.9	665.2	643.8	457.3	402.9	187.0	97.9	63.4
85°	405.7	438.6	539.3	442.6	362.1	330.0	327.7	380.7	123.6	48.4	53.5
87.5°	353.8	403.8	445.0	323.4	248.5	219.1	241.3	349.0	39.2	26.6	16.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	901.4	901.4	901.4	901.4	901.4	901.4	901.4	901.4	901.4	901.4	901.4
2.5°	883.9	882.8	876.9	867.8	861.0	856.6	848.3	847.9	848.7	841.6	844.3
5°	859.0	854.3	838.8	817.8	800.8	784.5	766.7	760.8	755.6	744.9	746.0
7.5°	832.9	824.5	797.6	763.1	730.3	700.1	670.4	655.7	644.7	630.8	630.8
10°	817.4	804.3	763.1	712.8	660.5	616.5	572.1	545.6	526.2	508.3	507.2
12.5°	816.6	796.8	739.4	670.0	598.3	536.4	475.9	435.1	406.1	385.1	383.2
15°	823.0	795.2	719.5	630.0	539.6	459.2	384.3	332.5	295.6	272.2	269.9
17.5°	828.5	793.2	698.2	588.0	482.6	384.7	301.6	247.7	212.8	193.7	191.8
20°	833.6	788.9	670.9	543.6	419.6	315.0	235.8	192.2	169.2	158.5	157.3
22.5°	841.2	784.9	642.3	493.7	357.8	256.4	194.6	163.3	151.0	145.8	145.1
25°	853.4	785.3	614.6	442.6	301.2	213.6	168.4	148.9	142.3	138.7	138.7
27.5°	871.2	790.0	587.2	390.7	253.2	184.2	152.9	141.5	137.1	134.3	133.5
30°	897.4	798.8	558.3	341.6	215.1	164.1	143.8	136.7	133.1	130.7	130.3
32.5°	935.5	814.3	527.7	296.8	186.2	149.8	137.1	132.8	129.9	128.0	127.6
35°	992.2	841.6	498.1	258.7	165.6	139.4	131.6	128.0	126.4	125.6	125.2
37.5°	1075.3	885.6	469.9	229.0	152.1	132.8	126.0	124.0	123.3	123.3	123.3
40°	1180.0	943.4	444.6	208.0	144.6	127.6	122.0	120.4	120.4	120.8	120.8
42.5°	1307.1	1015.9	422.8	193.7	140.2	124.0	119.3	118.5	118.0	118.0	118.5
45°	1454.9	1101.5	409.3	182.7	137.1	122.0	117.3	116.9	115.3	114.5	114.5
47.5°	1603.5	1193.1	408.5	176.4	133.1	119.7	115.3	115.3	112.1	110.6	111.0
50°	1742.2	1275.0	417.3	174.7	130.7	116.1	113.3	113.8	109.4	107.4	107.0
52.5°	1853.9	1337.6	427.9	176.8	130.7	112.9	109.8	111.7	107.0	104.6	104.2
55°	1940.3	1381.2	431.9	181.1	132.4	110.2	106.6	109.8	106.2	103.0	103.0
57.5°	2002.1	1395.1	414.8	183.0	134.7	109.8	103.4	109.4	107.4	103.4	103.4
60°	1979.5	1314.7	351.5	175.5	134.3	108.9	101.1	110.2	111.3	107.0	107.0
62.5°	1803.3	1099.9	282.1	158.5	127.6	106.2	98.3	109.4	114.2	112.5	111.7
65°	1468.0	806.7	218.7	138.3	116.1	100.2	92.3	102.2	107.8	109.4	109.8
67.5°	1034.5	510.8	170.0	117.6	101.8	91.6	85.6	90.3	92.3	93.1	94.7
70°	565.8	276.6	135.1	99.0	87.2	82.9	78.5	78.9	78.1	77.2	78.1
72°	284.1	180.7	114.2	86.0	77.2	74.5	72.5	71.3	71.3	70.2	70.5
72.5°	244.5	168.0	110.2	82.9	74.9	72.5	70.9	69.8	69.4	68.5	68.9
75°	162.9	133.1	92.0	69.4	63.8	62.2	63.0	61.8	62.2	61.4	61.8
77.5°	131.6	114.5	78.1	58.6	54.7	52.3	53.9	54.3	55.0	54.3	53.9
80°	110.2	97.5	65.4	48.4	45.5	43.6	44.4	47.2	47.6	45.2	44.8
82.5°	71.3	78.5	51.6	37.6	34.9	34.1	36.0	38.9	39.6	36.4	35.7
85°	59.8	63.0	37.2	25.8	23.0	22.2	26.2	28.9	30.9	27.7	26.9
87.5°	16.7	30.9	18.2	12.3	10.3	10.3	12.7	15.0	17.8	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)