

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: P198726

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)
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-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5041.1 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

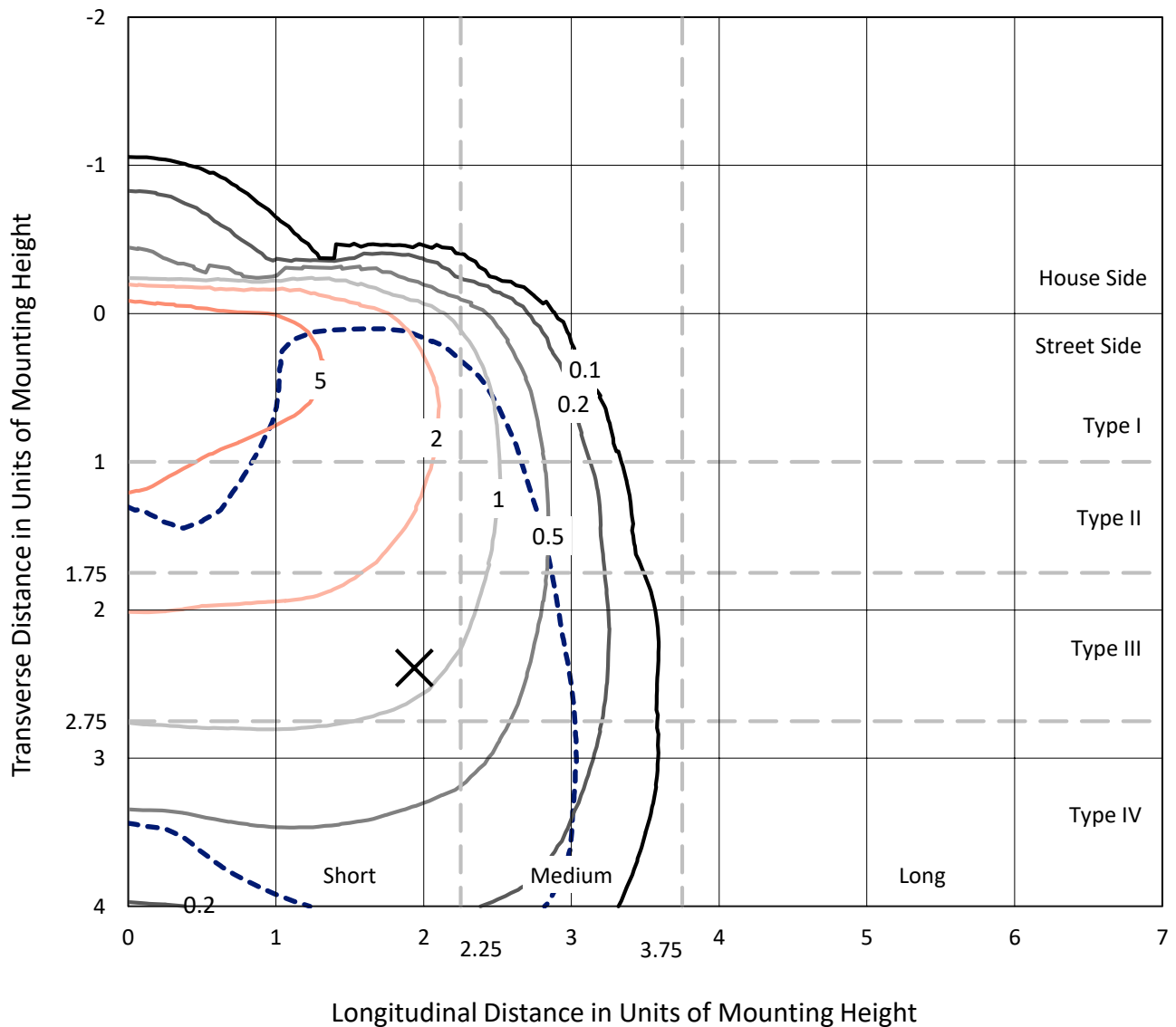
Input Watts (W): 58
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

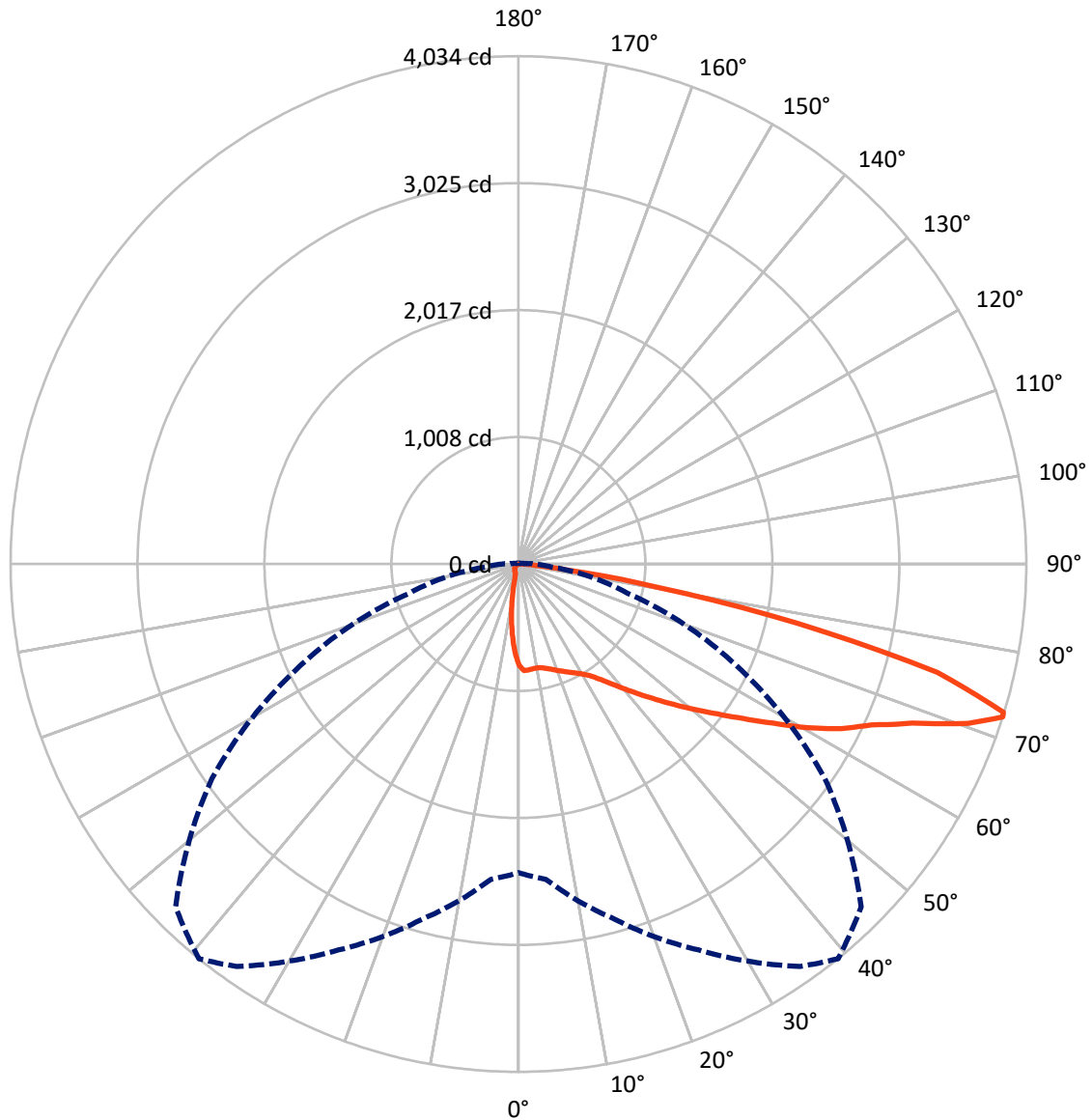
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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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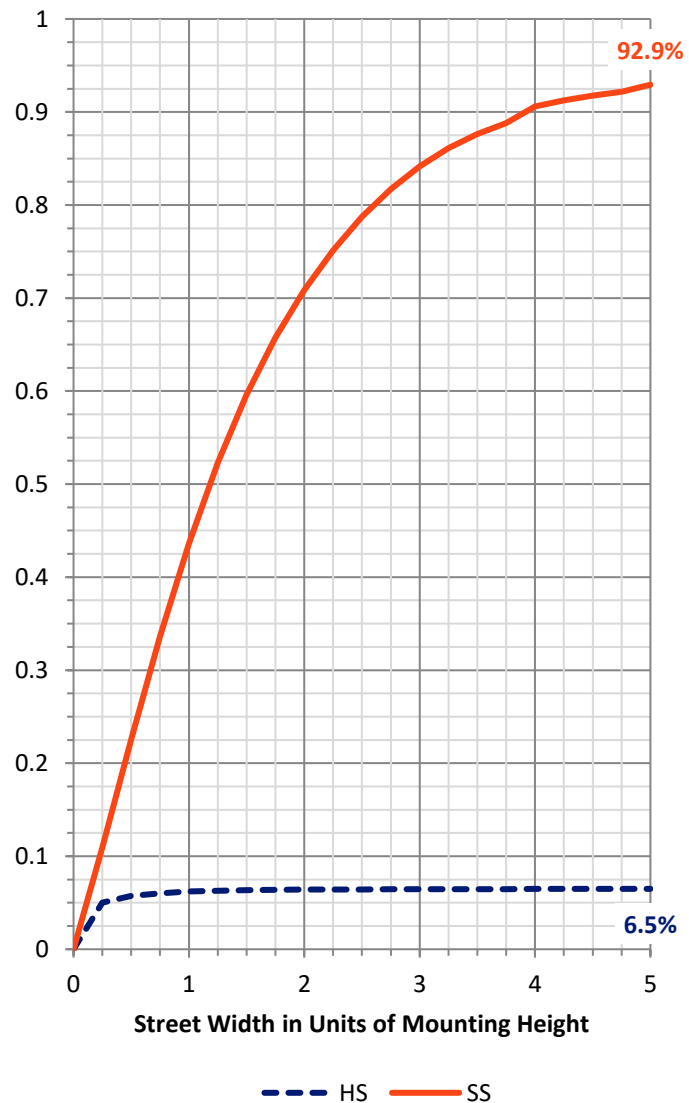
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	330.4	0.0	330.4
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	4710.7	0.0	4710.7
	% Fixture	93.4	0.0	93.4
Total	Lumens	5041.1	0.0	5041.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	1.3
10°-20°	158.9	3.2
20°-30°	263.9	5.2
30°-40°	420.6	8.3
40°-50°	694.2	13.8
50°-60°	1048.4	20.8
60°-70°	1365.7	27.1
70°-80°	922.8	18.3
80°-90°	101.1	2.0
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°	5041.1	100.0
0°-180°	5041.1	100.0

Coefficient of Utilization



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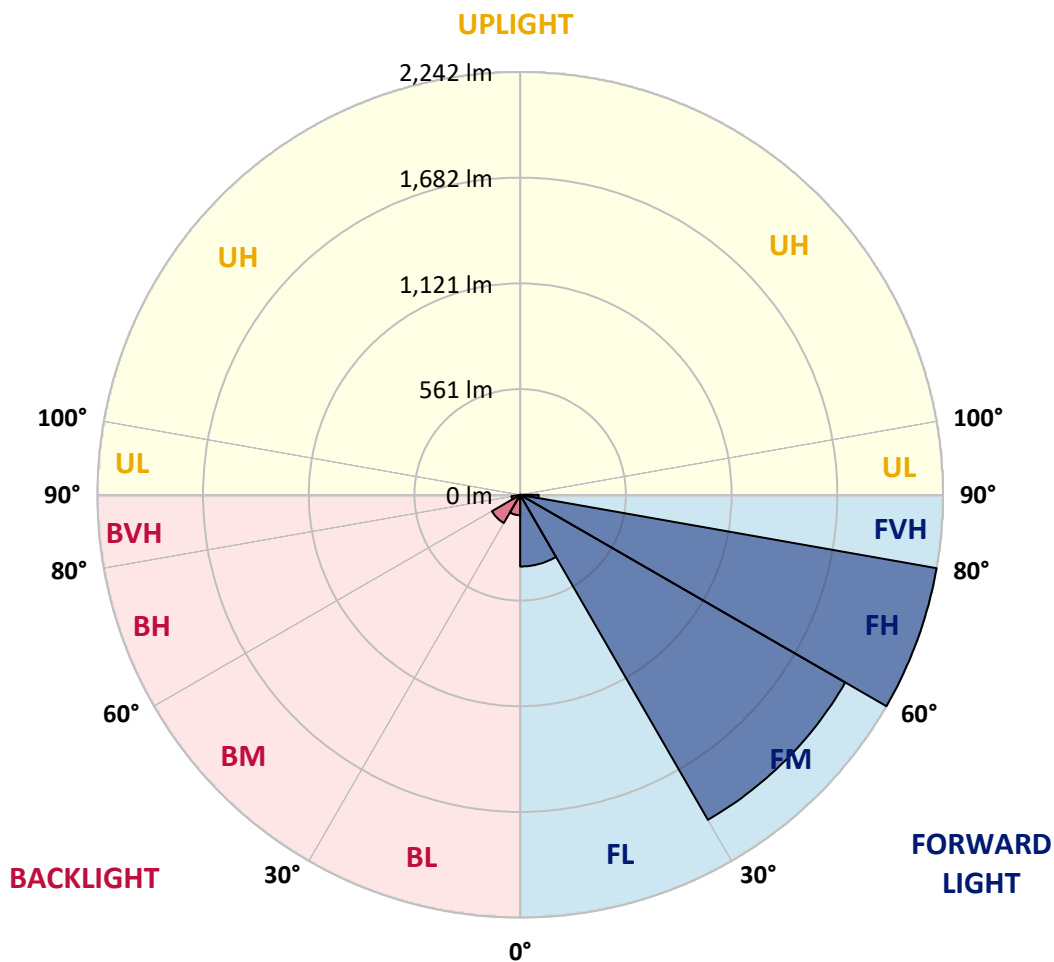
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.2	7.5			
FM	(30°-60°)	1990.3	39.5			
FH	(60°-80°)	2242.1	44.5			G2/5000
FVH	(80°-90°)	98.2	1.9			G1/100
BL	(0°-30°)	108.2	2.1	B0/110		
BM	(30°-60°)	172.9	3.4	B0/220		
BH	(60°-80°)	46.4	0.9	B0/110		G0/110
BVH	(80°-90°)	2.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	806.9	806.9	806.9	806.9	806.9	806.9	806.9	806.9	806.9	806.9	806.9
2.5°	859.2	860.7	858.8	855.2	850.1	846.9	842.5	833.0	821.1	810.8	798.9
5°	865.9	866.7	864.3	857.5	849.7	845.3	839.7	829.4	817.1	802.9	781.5
7.5°	867.9	867.5	864.7	856.4	844.1	838.6	829.1	816.4	803.7	790.6	766.4
10°	867.1	867.1	865.1	857.2	843.3	838.2	827.5	814.0	798.1	785.1	759.3
12.5°	864.3	865.9	864.7	860.4	850.1	846.1	836.6	823.1	808.0	794.5	767.2
15°	867.9	870.2	872.7	871.0	865.1	861.5	852.8	838.9	826.6	812.4	783.1
17.5°	882.2	887.3	892.8	893.2	886.9	880.6	870.6	856.4	844.5	831.5	799.7
20°	909.1	913.1	923.4	925.4	912.7	903.6	889.7	873.1	861.1	850.1	815.2
22.5°	949.1	953.5	961.8	959.0	937.6	926.9	909.5	890.5	878.2	871.9	833.0
25°	1009.8	1011.0	1012.9	1000.7	965.4	953.5	932.1	910.7	900.8	900.0	858.4
27.5°	1081.1	1082.7	1074.0	1046.6	996.3	980.8	956.7	937.2	932.5	938.5	890.5
30°	1162.7	1163.1	1139.0	1094.6	1032.0	1014.9	989.9	968.5	972.9	987.6	931.7
32.5°	1246.4	1242.4	1209.1	1151.2	1080.7	1060.1	1038.7	1017.3	1030.0	1059.7	992.0
35°	1322.9	1321.2	1282.1	1214.7	1144.1	1125.9	1110.4	1087.8	1108.5	1156.8	1074.0
37.5°	1399.3	1398.2	1353.4	1283.2	1222.2	1209.1	1197.6	1180.2	1213.8	1284.8	1183.8
40°	1483.7	1481.7	1426.7	1359.3	1313.0	1305.8	1299.0	1291.6	1349.0	1447.7	1320.4
42.5°	1587.9	1579.2	1504.4	1442.2	1412.8	1414.7	1415.2	1422.7	1512.6	1641.4	1481.7
45°	1707.6	1688.2	1582.4	1530.8	1522.6	1534.4	1546.4	1577.7	1703.3	1864.5	1660.0
47.5°	1823.7	1792.4	1672.4	1626.4	1643.5	1668.0	1696.6	1757.5	1917.3	2098.0	1821.8
50°	1923.7	1891.5	1761.5	1723.5	1777.8	1814.2	1864.9	1957.3	2143.2	2295.4	1923.7
52.5°	2002.1	1976.8	1855.8	1830.5	1926.8	1976.8	2056.3	2177.7	2356.4	2425.3	1995.0
55°	2059.9	2047.2	1946.3	1949.7	2092.4	2164.6	2263.7	2400.8	2536.3	2526.4	2048.5
57.5°	2125.4	2115.5	2040.9	2090.5	2291.8	2384.9	2499.5	2609.6	2667.0	2607.6	2100.7
60°	2192.3	2195.5	2155.9	2260.9	2538.2	2641.4	2741.2	2768.5	2779.3	2690.1	2155.9
62.5°	2243.0	2256.5	2260.1	2444.8	2791.1	2879.1	2922.3	2902.8	2900.5	2800.6	2151.5
65°	2301.3	2336.5	2395.2	2646.5	3021.0	3078.9	3109.8	3137.9	3078.5	2833.6	1939.9
67.5°	2402.0	2457.4	2589.4	2893.7	3286.5	3372.1	3459.7	3430.0	3105.0	2499.5	1477.8
70°	2537.5	2605.3	2838.3	3216.8	3646.7	3790.1	3863.5	3406.5	2636.1	1727.0	779.5
72°	2451.9	2513.3	2915.2	3381.6	3901.9	4033.5	3850.0	2971.5	1911.0	895.2	261.2
72.5°	2368.6	2432.1	2890.6	3379.6	3927.3	4028.0	3762.4	2799.8	1691.0	696.7	179.9
75°	1643.5	1723.5	2478.0	3038.1	3546.5	3435.9	2878.7	1695.3	612.6	119.7	59.4
77.5°	849.7	911.4	1503.1	2146.8	2471.8	2263.7	1701.3	735.5	169.6	63.4	39.3
80°	526.7	557.2	703.1	1057.7	1284.0	1123.1	750.5	297.3	108.5	37.6	31.3
82.5°	272.6	296.0	442.6	426.8	474.3	394.3	277.0	248.9	67.0	23.4	32.1
85°	89.6	95.1	271.9	283.8	203.0	136.4	122.9	237.4	19.4	15.0	27.3
87.5°	11.9	13.9	95.5	162.4	99.8	61.8	73.8	83.6	6.8	8.3	7.6
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°	806.9	806.9	806.9	806.9	806.9	806.9	806.9	806.9	806.9	806.9	806.9
2.5°	791.0	785.8	769.6	753.4	734.8	717.7	704.2	695.5	699.5	686.4	688.3
5°	768.4	755.3	719.6	681.3	639.7	600.8	569.9	546.9	542.6	522.7	523.5
7.5°	746.7	725.3	667.4	604.0	535.0	479.2	428.4	384.0	368.2	351.9	342.4
10°	734.8	705.4	623.4	531.0	433.9	351.9	280.6	224.7	201.3	184.2	175.9
12.5°	738.3	699.5	590.4	464.8	337.3	233.0	158.6	117.7	103.4	95.5	92.8
15°	750.2	700.6	560.8	400.3	245.3	141.1	93.1	79.7	78.5	78.1	77.6
17.5°	761.3	701.8	529.5	332.9	164.1	89.9	74.9	73.8	73.8	73.8	73.8
20°	772.7	702.3	495.0	262.4	107.8	73.8	70.6	69.8	70.6	70.6	70.6
22.5°	786.2	705.0	461.7	193.7	79.7	69.4	67.4	67.0	67.4	67.4	67.0
25°	802.9	711.0	425.6	138.7	72.1	66.6	64.5	64.2	64.5	64.2	64.2
27.5°	825.1	718.9	383.6	99.4	68.9	63.8	61.8	61.8	61.8	61.4	61.4
30°	853.7	728.4	327.3	78.5	65.8	61.1	59.4	59.4	59.0	58.6	58.6
32.5°	894.5	743.9	265.9	70.9	62.2	57.5	55.9	56.3	55.9	55.4	55.0
35°	952.3	768.0	205.3	67.0	58.6	53.9	52.3	52.3	52.3	51.6	51.6
37.5°	1034.3	804.9	153.7	63.0	55.0	50.3	48.4	48.4	48.0	47.2	47.6
40°	1135.8	851.2	111.4	59.4	51.6	46.3	44.8	44.0	43.2	42.5	42.5
42.5°	1257.8	896.4	83.6	55.9	48.0	43.2	41.2	40.4	38.9	38.1	37.6
45°	1394.6	944.4	69.4	51.6	44.0	39.6	38.1	36.4	34.5	33.2	32.9
47.5°	1509.9	973.7	61.8	47.2	40.0	36.1	34.5	32.1	29.8	28.9	28.9
50°	1579.2	961.4	55.4	42.8	36.1	32.5	30.5	27.3	25.8	25.0	24.6
52.5°	1618.1	925.0	50.3	39.3	32.5	28.5	25.8	23.0	22.2	21.4	21.4
55°	1644.6	872.3	44.8	35.7	29.4	25.0	21.8	19.8	19.0	18.6	18.2
57.5°	1670.0	808.0	39.6	32.5	26.2	22.2	18.6	17.8	16.3	15.9	15.9
60°	1677.5	719.6	34.9	28.9	23.4	19.4	16.3	15.0	13.5	13.1	13.1
62.5°	1581.6	572.6	30.9	24.6	20.6	16.7	14.2	12.7	11.0	11.0	11.0
65°	1321.7	388.7	26.6	21.4	18.2	14.2	12.3	10.3	9.5	9.5	9.5
67.5°	920.6	216.8	22.6	18.2	15.4	11.9	10.3	8.7	8.3	8.7	8.7
70°	414.9	86.0	19.0	15.0	12.7	9.9	8.7	7.6	8.3	8.3	8.3
72°	124.4	45.9	15.9	12.3	10.3	8.7	7.6	7.2	7.9	8.3	8.3
72.5°	92.4	41.2	15.0	11.9	10.3	8.3	7.2	7.2	7.9	8.3	8.3
75°	47.6	28.1	11.5	8.7	7.6	6.8	5.9	6.8	7.9	7.9	7.9
77.5°	37.2	23.0	9.5	6.8	6.3	5.9	5.5	6.3	7.2	7.2	7.2
80°	34.9	15.0	7.6	6.3	5.5	5.1	5.1	5.5	6.3	6.8	6.8
82.5°	35.3	12.3	6.8	5.9	5.1	4.7	4.7	5.1	5.9	6.3	6.3
85°	22.6	8.3	5.9	5.1	4.7	4.4	4.4	4.7	5.5	5.9	5.9
87.5°	7.6	6.3	5.1	4.7	4.0	4.0	4.0	4.0	4.7	5.1	5.5
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)