

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: P199020

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)
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-SL2-7060-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4791 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G1

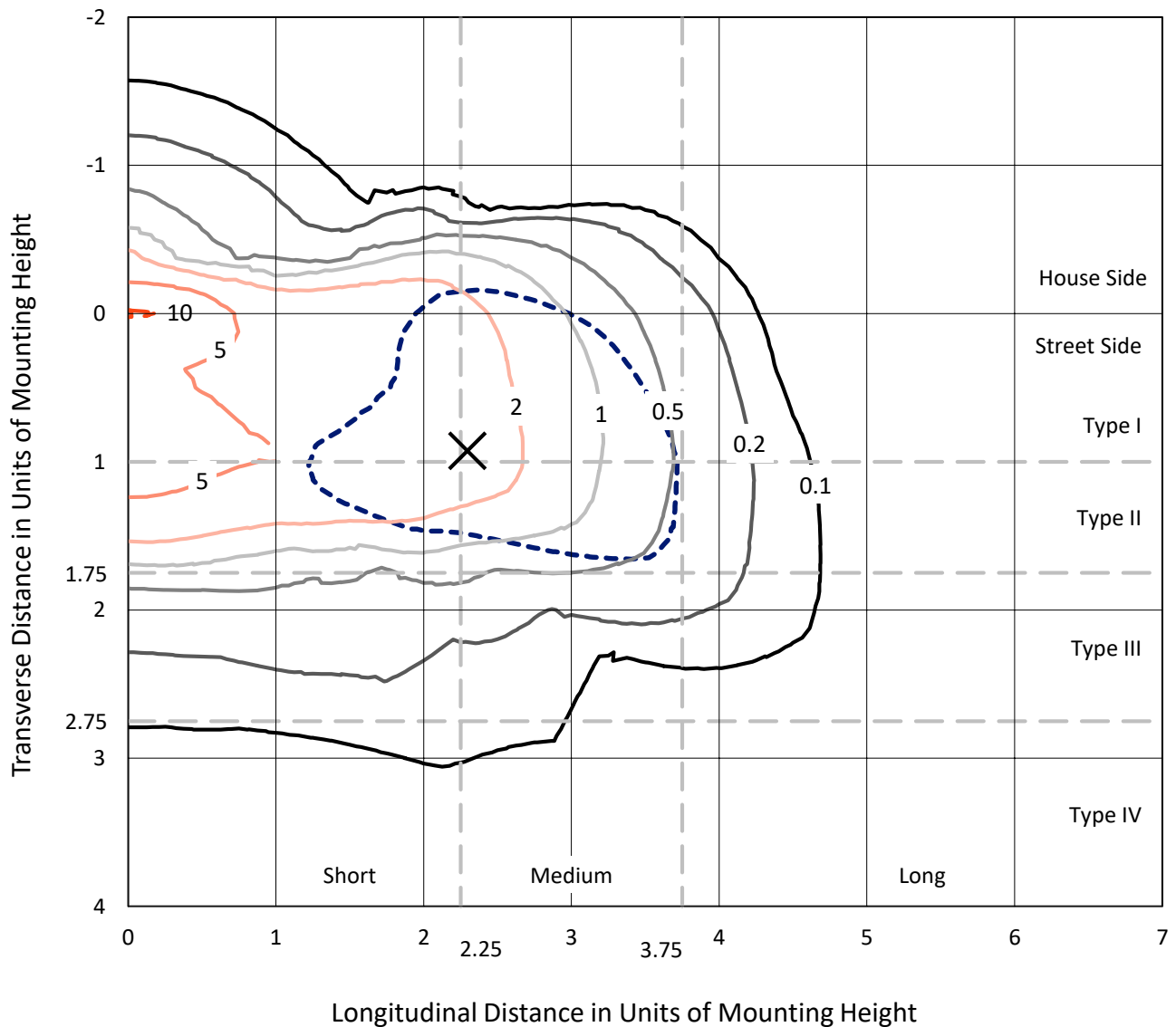
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

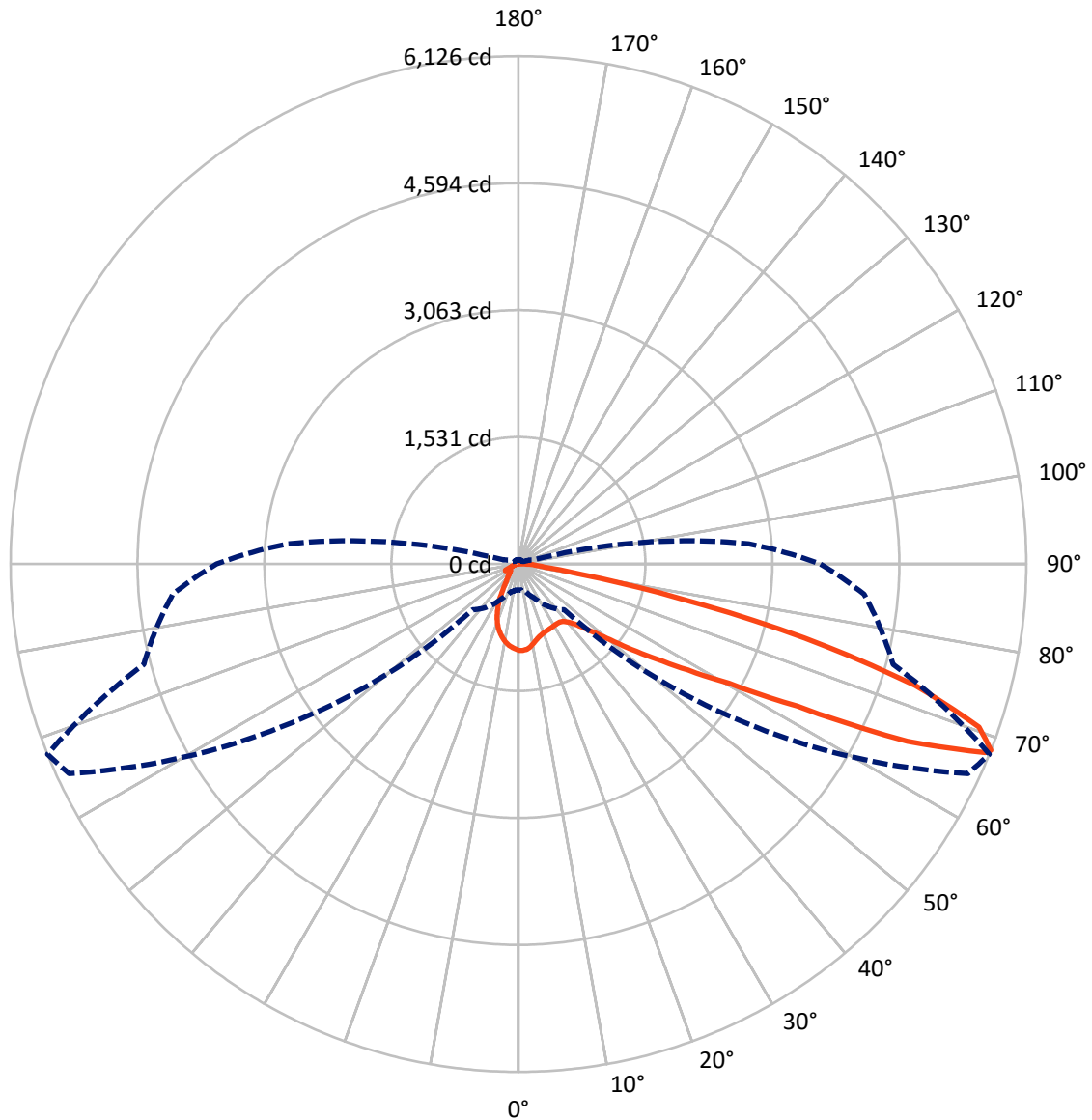
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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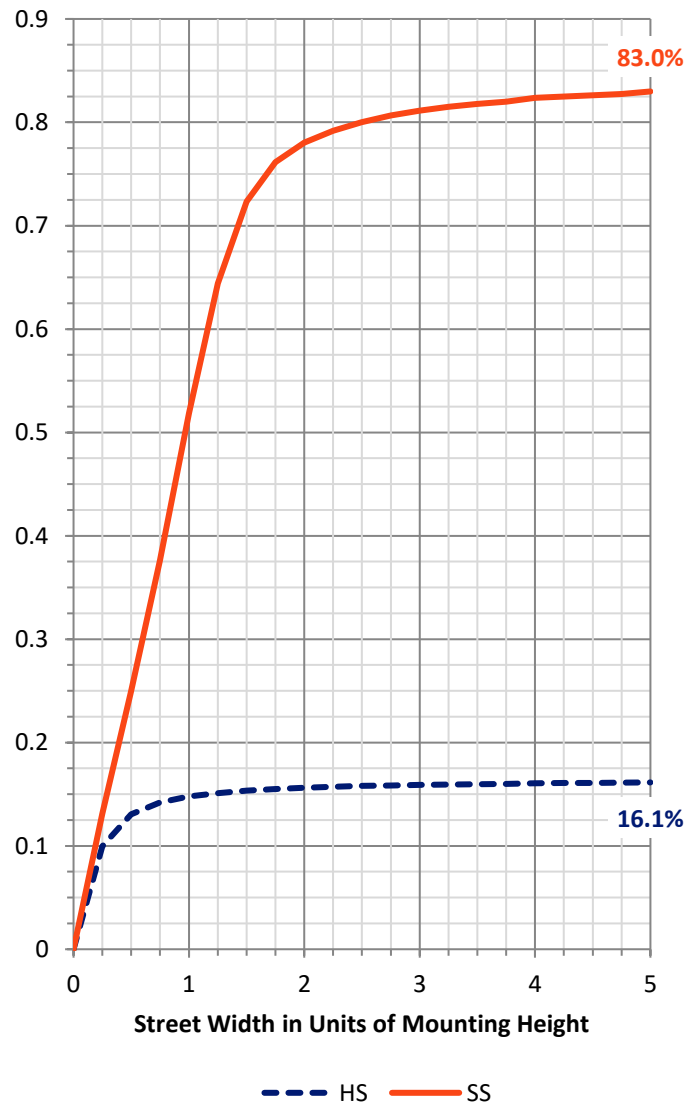
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	783.8	0.0	783.8
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	4007.2	0.0	4007.2
	% Fixture	83.6	0.0	83.6
Total	Lumens	4791.0	0.0	4791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	1.9
10°-20°	207.2	4.3
20°-30°	280.2	5.8
30°-40°	395.1	8.2
40°-50°	649.6	13.6
50°-60°	1007.0	21.0
60°-70°	1305.6	27.3
70°-80°	749.2	15.6
80°-90°	107.8	2.2
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°	4791.0	100.0
0°-180°	4791.0	100.0

Coefficient of Utilization



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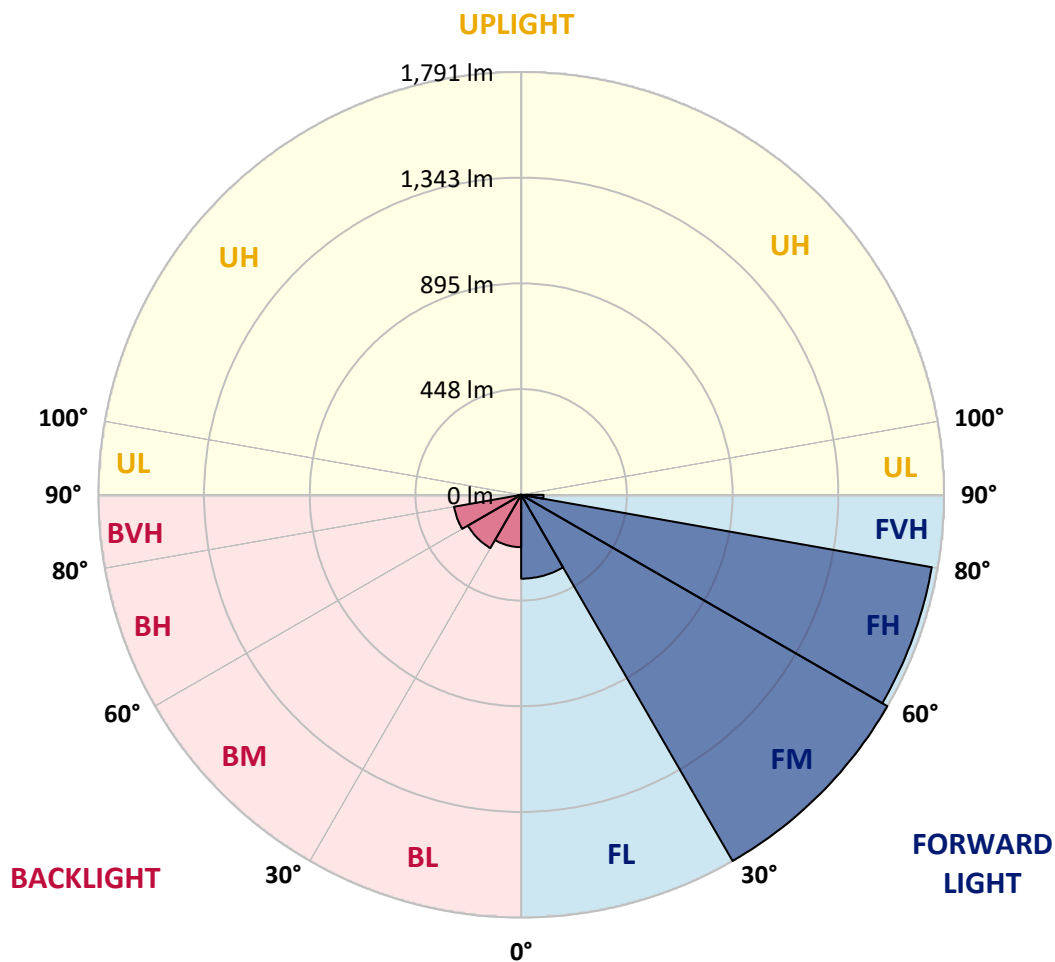
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	355.1	7.4			
FM	(30°-60°)	1791.0	37.4			
FH	(60°-80°)	1766.2	36.9			G1/1800
FVH	(80°-90°)	94.9	2.0			G1/100
BL	(0°-30°)	221.6	4.6	B1/500		
BM	(30°-60°)	260.7	5.4	B1/1000		
BH	(60°-80°)	288.7	6.0	B1/500		G1/500
BVH	(80°-90°)	12.8	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-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5
2.5°	1014.6	1022.8	1022.8	1028.7	1034.0	1038.4	1042.2	1042.2	1042.2	1039.7	1037.5
5°	907.9	918.9	920.4	935.4	955.2	979.3	1006.2	1030.0	1034.7	1043.4	1046.9
7.5°	833.7	837.2	843.1	853.4	873.5	903.2	945.5	998.7	1011.5	1039.0	1053.4
10°	781.2	784.0	789.0	799.3	817.5	844.4	886.0	955.2	976.4	1025.3	1053.7
12.5°	742.7	744.9	749.5	758.9	777.4	801.5	844.1	916.0	942.3	1011.5	1058.1
15°	712.6	716.4	720.1	729.2	748.0	771.1	814.3	887.6	916.0	1000.5	1066.3
17.5°	700.7	702.6	703.2	707.9	724.8	748.3	791.5	867.5	897.0	991.8	1072.5
20°	708.2	708.5	702.3	699.2	708.9	730.5	772.4	852.5	882.6	984.0	1075.0
22.5°	741.1	741.1	724.8	711.1	704.5	717.9	759.6	842.2	874.7	978.0	1075.0
25°	803.7	800.9	775.5	748.3	719.2	713.6	751.4	835.6	868.8	974.9	1071.0
27.5°	886.0	883.5	851.3	810.9	758.3	722.9	748.6	830.3	862.8	970.2	1062.2
30°	986.1	984.0	947.3	894.4	816.8	752.7	755.2	826.5	858.1	962.4	1047.5
32.5°	1086.0	1084.7	1055.6	1001.5	897.6	803.1	772.4	825.9	855.6	953.0	1029.6
35°	1186.4	1186.4	1168.6	1122.9	1006.2	878.8	808.4	837.5	860.3	948.0	1014.3
37.5°	1334.8	1328.8	1295.7	1248.4	1142.9	977.1	866.6	861.9	878.5	956.4	1009.3
40°	1564.5	1547.3	1464.4	1384.9	1292.2	1102.9	951.7	909.2	919.2	985.2	1021.2
42.5°	1804.9	1777.6	1667.8	1540.7	1446.5	1258.1	1063.4	985.8	985.5	1040.9	1059.1
45°	2011.1	1997.0	1878.1	1716.9	1622.7	1432.7	1204.6	1099.8	1088.5	1127.3	1132.0
47.5°	2131.0	2121.6	2049.9	1903.4	1831.8	1639.0	1383.6	1257.8	1236.5	1259.7	1252.5
50°	2097.8	2106.9	2086.2	2011.4	2056.5	1928.8	1611.8	1474.4	1434.0	1457.2	1439.6
52.5°	1923.2	1947.6	1966.0	1980.4	2185.7	2316.6	1898.4	1744.8	1711.3	1707.2	1690.3
55°	1608.6	1647.4	1705.6	1811.4	2151.0	2627.9	2399.2	2071.8	2023.0	1997.3	2003.9
57.5°	1094.7	1153.6	1279.1	1480.3	1970.4	2760.6	3139.6	2494.3	2411.7	2320.3	2341.6
60°	603.1	652.2	801.5	1004.3	1558.2	2740.9	3795.9	3181.0	2920.9	2678.6	2722.5
62.5°	390.3	400.9	512.0	686.0	956.4	2419.8	4160.5	4328.6	3777.5	3151.2	3212.9
65°	313.6	321.1	375.6	553.3	666.3	1556.7	4176.8	5519.1	5155.7	3793.4	3795.3
67.5°	306.4	309.8	341.4	465.4	625.0	847.5	3610.3	5988.5	6072.7	4551.4	4184.9
68°	310.8	314.8	346.8	451.0	624.7	781.2	3336.8	5981.3	6125.6	4678.2	4184.9
70°	274.2	279.2	353.6	466.6	598.1	671.6	2284.9	5663.7	5895.9	4969.5	3970.9
72.5°	143.3	139.3	174.9	368.4	673.2	699.8	1207.1	4731.7	5002.7	4602.4	3430.7
75°	111.7	101.7	98.0	145.5	592.1	725.8	701.0	3363.1	3567.8	3317.7	2293.1
77.5°	105.2	92.9	85.8	86.1	260.7	755.2	567.1	1979.2	1979.2	1582.7	731.7
80°	84.5	73.2	68.5	78.2	125.8	696.0	591.8	902.0	769.3	409.0	201.5
82.5°	55.7	49.8	50.1	63.5	95.5	464.7	685.4	445.3	334.6	181.2	118.6
85°	35.4	30.4	33.8	44.4	71.4	207.2	678.5	309.5	221.6	101.7	59.1
87.5°	17.8	13.8	16.9	23.2	43.5	59.5	558.6	276.3	164.3	42.2	32.2
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°	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5
2.5°	1037.5	1030.6	1027.1	1021.5	1014.6	1007.7	1003.0	1000.9	999.6	1000.2	999.9
5°	1045.0	1035.9	1021.2	1000.2	978.6	955.8	938.3	924.8	916.4	913.9	913.2
7.5°	1050.6	1037.5	1009.9	971.7	934.8	894.8	860.6	833.4	815.0	806.5	806.2
10°	1049.7	1032.8	989.3	932.9	878.8	820.0	766.4	720.8	687.6	671.6	671.0
12.5°	1050.6	1027.5	963.9	887.6	809.9	725.8	646.3	575.2	525.8	502.3	501.4
15°	1054.4	1021.8	937.9	836.9	729.5	610.6	497.0	407.8	362.7	347.4	347.4
17.5°	1054.1	1012.4	907.9	778.0	634.1	474.8	339.3	284.2	279.8	293.9	296.1
20°	1047.8	997.4	869.1	708.2	522.0	328.6	230.0	222.2	257.3	296.1	300.4
22.5°	1038.1	978.0	824.3	627.2	391.5	214.1	177.4	189.3	236.9	285.1	292.0
25°	1024.6	954.5	773.0	533.0	260.4	154.0	148.0	162.7	196.2	228.5	233.5
27.5°	1004.9	924.8	717.0	430.9	166.2	126.7	128.9	139.3	153.7	167.4	170.3
30°	980.2	890.1	656.0	318.0	126.1	113.3	117.0	123.3	129.6	138.3	140.2
32.5°	955.2	854.7	592.4	218.4	110.2	106.1	109.8	113.3	118.6	124.6	125.8
35°	932.6	821.8	527.0	152.4	103.3	101.4	103.3	105.5	110.8	116.7	117.4
37.5°	916.4	794.9	458.8	120.5	99.2	97.3	98.3	99.2	105.5	114.2	115.2
40°	914.2	777.1	389.6	108.3	96.1	93.6	92.9	93.6	101.7	111.7	112.7
42.5°	935.4	778.0	322.0	103.3	93.6	90.8	88.3	89.5	96.7	104.5	105.2
45°	985.8	799.9	263.5	101.1	91.4	89.2	85.4	86.1	89.5	93.6	94.2
47.5°	1074.7	847.8	218.8	99.8	89.5	87.6	82.9	81.1	81.4	83.6	83.6
50°	1216.8	927.9	191.5	98.6	87.9	84.5	79.2	75.4	74.5	75.7	76.0
52.5°	1428.7	1065.3	178.4	96.1	85.1	80.4	74.5	70.7	69.2	70.4	70.4
55°	1715.0	1284.7	172.1	92.6	81.7	75.4	70.1	67.0	65.7	66.7	66.7
57.5°	2041.5	1569.8	182.8	87.9	77.3	70.1	66.3	64.2	63.2	64.2	64.5
60°	2429.2	1942.9	256.0	82.0	72.6	65.4	63.2	62.0	61.3	62.3	62.3
62.5°	2944.7	2439.2	396.2	77.3	67.6	61.0	60.4	59.8	59.1	60.1	60.1
65°	3501.1	2890.8	407.8	74.5	63.2	57.3	57.6	57.6	57.0	57.9	57.9
67.5°	3678.3	2851.7	227.8	71.0	57.9	53.5	54.8	54.8	54.5	55.4	55.1
68°	3640.7	2789.7	198.4	70.1	57.0	52.6	53.8	54.1	53.8	54.8	54.5
70°	3360.9	2449.2	130.5	64.8	52.9	49.4	51.3	51.6	51.3	52.6	52.3
72.5°	2774.4	1837.1	96.4	56.6	47.9	45.4	47.3	47.6	47.9	49.1	48.8
75°	1762.0	1014.6	76.0	48.2	42.9	40.7	42.6	43.5	44.1	46.0	45.1
77.5°	482.6	308.0	61.7	41.0	36.9	36.0	37.2	38.5	39.1	41.3	39.7
80°	169.0	136.1	51.3	34.7	30.7	30.4	31.6	32.9	33.5	35.4	33.5
82.5°	102.7	88.9	41.0	27.2	24.1	23.8	25.3	26.6	27.2	27.2	26.0
85°	53.5	46.9	30.0	19.1	16.6	15.6	18.5	20.0	20.3	20.0	19.1
87.5°	30.0	26.6	16.0	9.1	7.5	7.8	9.7	11.9	12.8	12.5	11.9
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)