

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: P193789

Luminaire Tested: **GAN-AF-01-LED-U-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-SL4-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 4832 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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

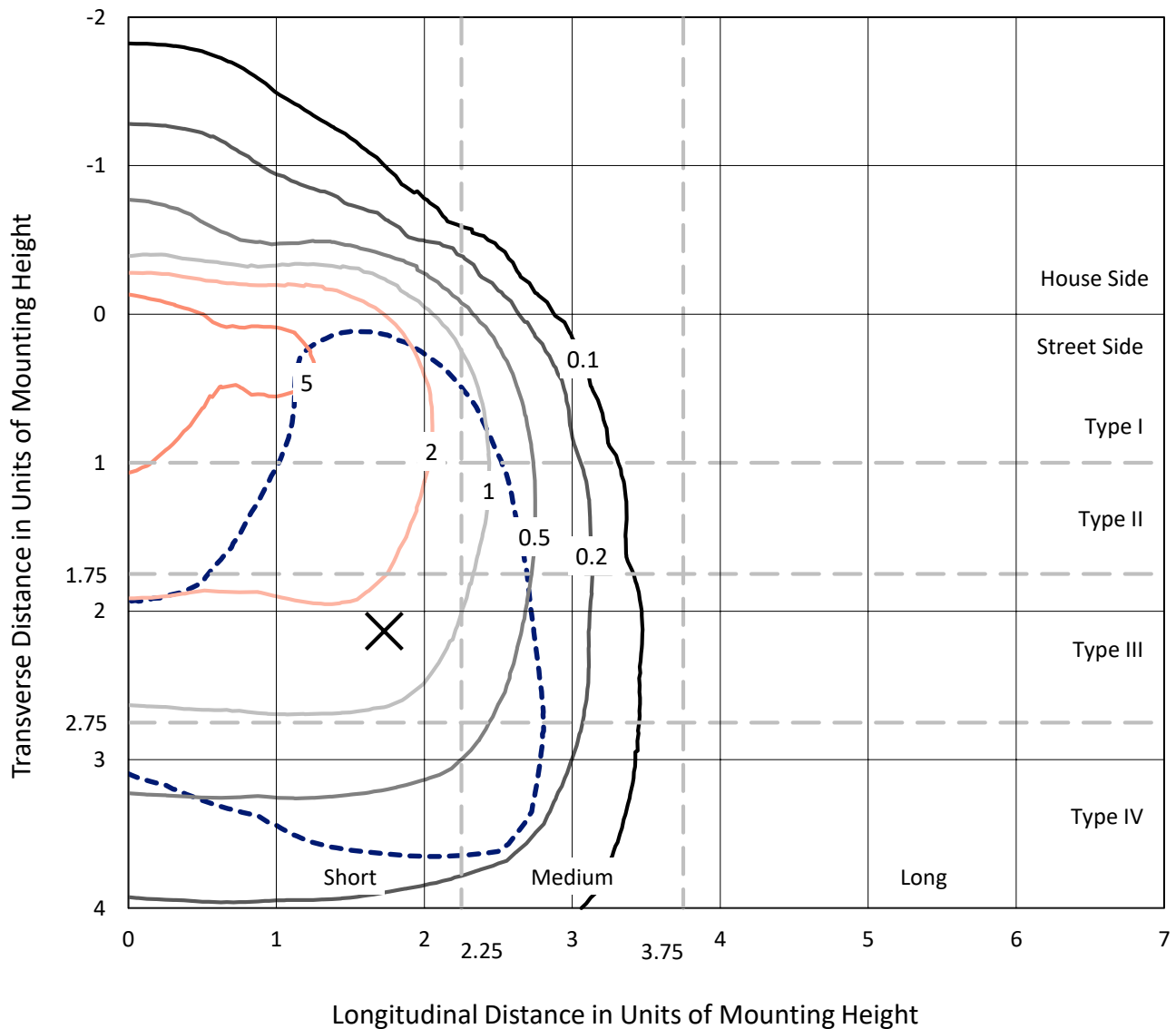


REPORT NUMBER: P193789

CATALOG NUMBER: GAN-AF-01-LED-U-SL4-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

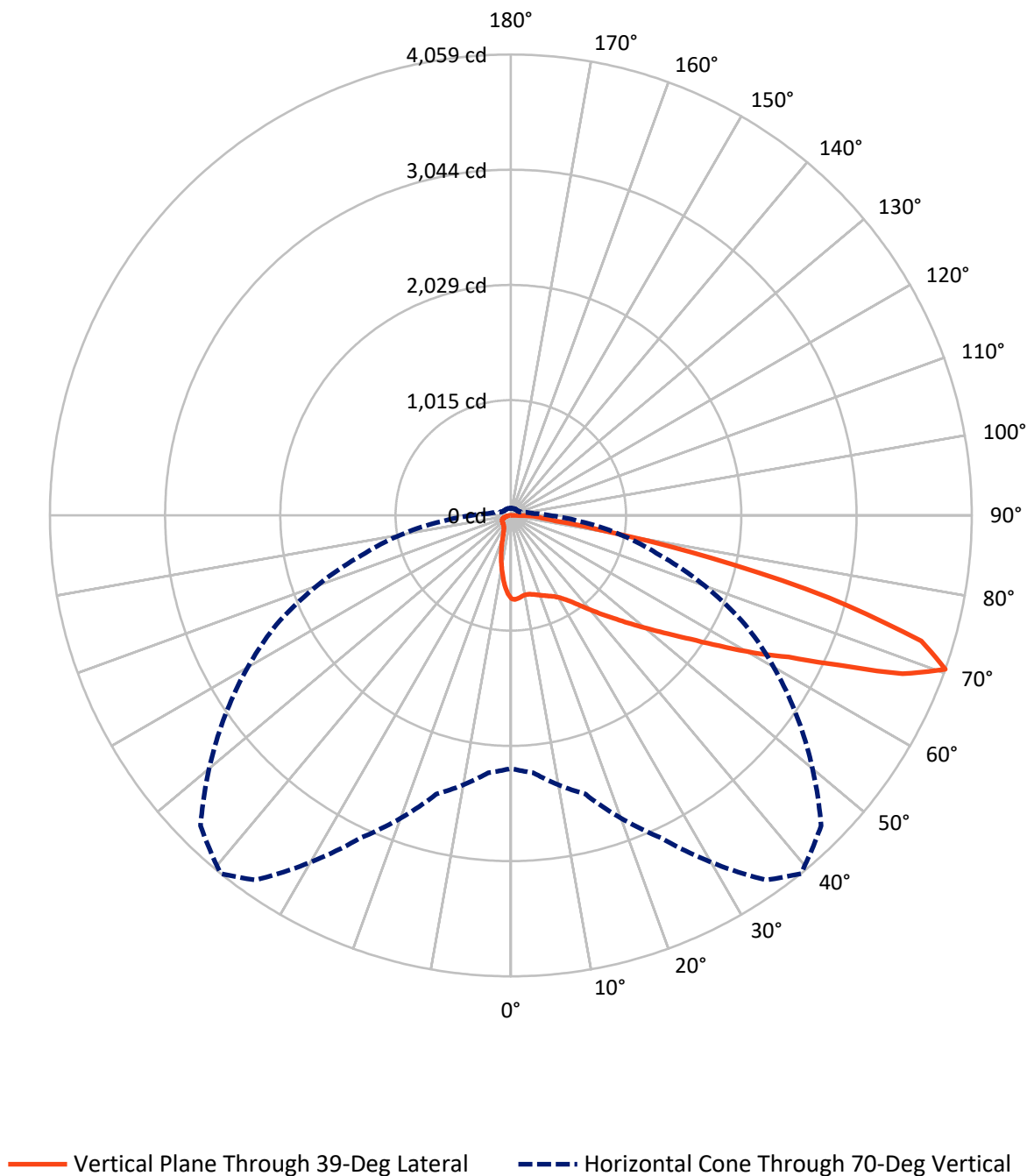


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193789

CATALOG NUMBER: GAN-AF-01-LED-U-SL4-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P193789

CATALOG NUMBER: GAN-AF-01-LED-U-SL4-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	549.6	0.0	549.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	4282.4	0.0	4282.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	4832.0	0.0	4832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	1.3
10°-20°	157.4	3.3
20°-30°	245.0	5.1
30°-40°	381.7	7.9
40°-50°	640.8	13.3
50°-60°	1018.0	21.1
60°-70°	1357.8	28.1
70°-80°	820.0	17.0
80°-90°	148.4	3.1
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°	4832.0	100.0
0°-180°	4832.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193789

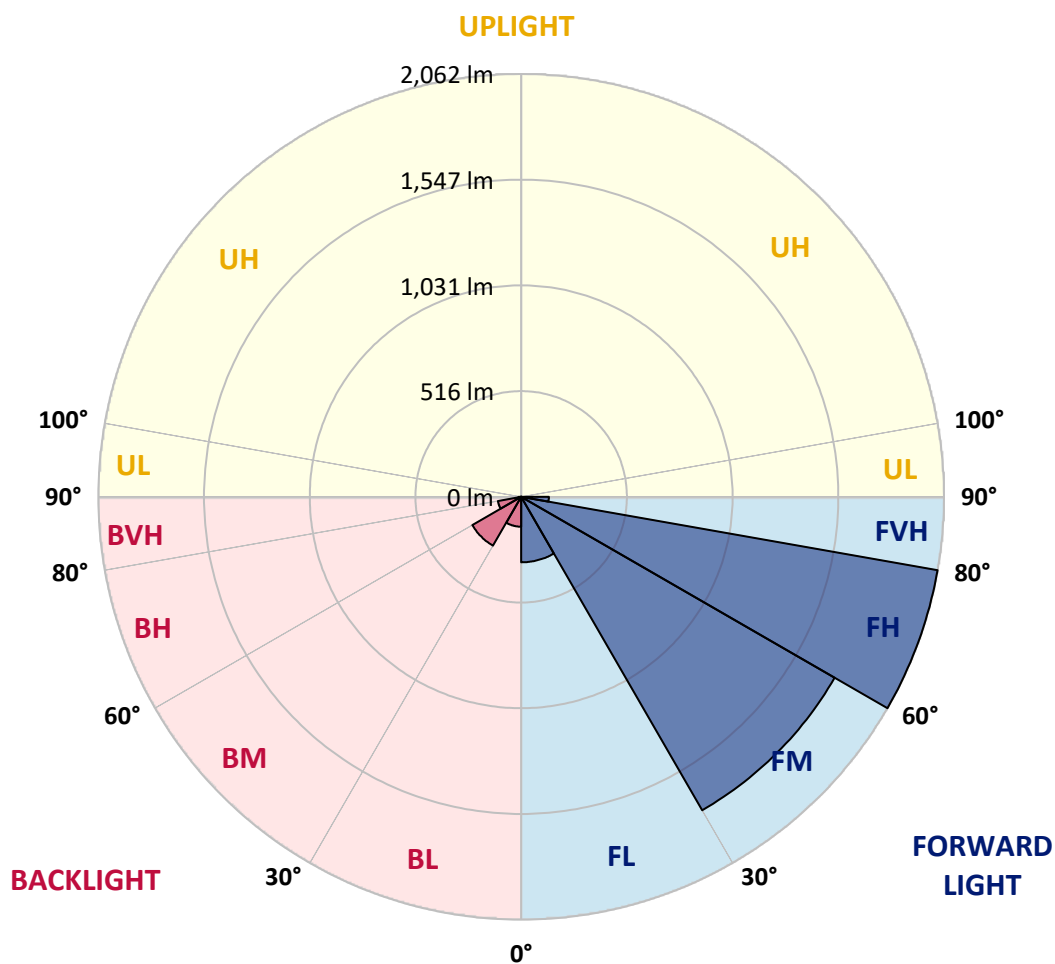
CATALOG NUMBER: GAN-AF-01-LED-U-SL4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	319.5	6.6			
FM	(30°-60°)	1765.4	36.5			
FH	(60°-80°)	2062.4	42.7			G2/5000
FVH	(80°-90°)	135.0	2.8			G2/225
BL	(0°-30°)	145.8	3.0	B1/500		
BM	(30°-60°)	275.0	5.7	B1/1000		
BH	(60°-80°)	115.4	2.4	B1/500		G1/500
BVH	(80°-90°)	13.4	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





REPORT NUMBER: P193789

CATALOG NUMBER: GAN-AF-01-LED-U-SL4-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6
2.5°	747.8	747.6	745.6	744.1	742.9	742.4	743.4	739.7	736.5	732.6	728.4
5°	742.2	741.9	738.7	735.8	732.8	731.9	731.6	725.0	721.0	715.1	707.3
7.5°	736.0	734.8	730.6	725.7	720.6	718.1	715.6	707.0	702.6	696.7	687.6
10°	729.6	728.2	724.2	719.3	714.4	710.7	706.5	698.2	693.5	689.1	678.5
12.5°	723.0	721.8	720.8	718.6	715.1	712.0	708.8	701.6	696.7	691.6	679.3
15°	722.0	721.5	723.7	725.2	723.3	721.3	717.8	711.7	706.5	701.4	685.4
17.5°	729.9	729.6	735.3	739.2	738.2	734.8	730.1	723.3	719.1	714.7	694.8
20°	747.1	748.3	755.2	760.4	755.4	750.5	742.9	733.3	731.1	729.2	704.3
22.5°	779.5	780.7	785.7	787.6	774.8	767.7	757.2	744.9	743.4	744.9	715.9
25°	830.1	828.9	828.2	820.8	797.4	786.4	772.9	760.1	760.8	767.5	732.1
27.5°	897.2	890.6	880.2	858.1	821.0	808.7	792.3	780.5	785.2	797.9	756.4
30°	966.7	959.3	935.5	899.4	852.0	838.5	820.0	806.8	819.1	839.2	788.8
32.5°	1031.1	1030.1	995.2	948.8	894.7	882.9	864.5	849.5	869.4	900.1	837.5
35°	1101.3	1103.6	1061.8	1006.0	952.5	940.2	926.9	915.6	942.1	984.4	908.0
37.5°	1176.5	1180.9	1131.6	1068.7	1018.3	1013.1	1005.3	1000.4	1041.4	1099.9	1006.5
40°	1277.0	1272.6	1204.0	1139.4	1099.1	1098.9	1096.4	1102.3	1170.6	1250.7	1133.0
42.5°	1384.6	1371.6	1280.9	1215.3	1187.8	1196.2	1201.1	1225.2	1326.1	1434.0	1287.3
45°	1500.6	1471.3	1360.8	1295.7	1286.3	1304.0	1320.7	1373.1	1509.2	1642.6	1456.3
47.5°	1593.2	1564.9	1443.3	1379.9	1400.3	1427.1	1459.3	1542.1	1714.0	1858.0	1623.1
50°	1666.1	1647.7	1526.6	1478.2	1525.9	1567.1	1619.7	1733.5	1927.3	2067.8	1777.7
52.5°	1736.9	1723.1	1610.6	1578.9	1673.3	1730.3	1801.7	1938.8	2145.9	2274.2	1907.6
55°	1800.8	1790.9	1701.0	1704.5	1846.7	1920.9	2010.8	2172.7	2384.2	2458.2	2017.7
57.5°	1872.7	1860.2	1804.2	1861.9	2069.5	2165.8	2282.8	2435.6	2607.8	2621.8	2101.5
60°	1945.2	1934.4	1918.7	2043.7	2352.5	2453.8	2564.6	2690.3	2834.5	2748.8	2096.6
62.5°	2008.1	2009.3	2037.1	2234.6	2629.7	2746.8	2882.0	3006.3	3039.7	2770.9	1941.5
65°	2114.7	2134.1	2216.9	2504.9	3019.8	3176.5	3342.3	3322.4	3096.4	2564.3	1609.1
67.5°	2241.5	2275.6	2443.4	2865.0	3512.8	3720.9	3785.0	3393.9	2869.2	2084.5	1147.0
70°	2228.7	2275.6	2541.2	3133.5	3919.2	4058.7	3864.2	3071.6	2278.3	1361.8	609.3
72.5°	1979.1	2046.2	2342.0	3010.4	3791.2	3778.9	3354.6	2289.9	1353.6	546.9	238.1
75°	1508.4	1576.2	1830.7	2378.3	2996.4	2893.3	2380.3	1265.0	513.7	217.2	150.1
77.5°	867.7	920.3	1116.8	1458.5	1901.0	1795.1	1324.9	562.6	250.1	151.3	117.2
80°	484.5	513.7	633.1	740.0	931.6	854.0	592.8	349.6	186.7	109.8	90.4
82.5°	383.0	409.0	512.0	466.8	425.5	392.6	340.5	311.3	149.1	69.3	54.0
85°	334.6	359.4	433.4	367.5	290.6	266.6	276.6	306.4	116.0	41.8	46.2
87.5°	310.0	343.2	386.2	283.3	226.3	200.5	255.3	335.8	37.3	26.0	18.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193789

CATALOG NUMBER: GAN-AF-01-LED-U-SL4-8030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6
2.5°	724.7	720.8	714.4	708.8	699.9	695.2	690.1	686.4	683.5	681.0	684.9
5°	702.4	695.0	681.5	667.0	649.8	636.3	625.0	614.4	607.1	602.1	605.6
7.5°	681.2	669.2	648.1	621.8	592.3	567.3	546.6	528.4	515.9	507.8	511.0
10°	669.2	654.2	621.5	580.3	536.8	497.7	465.3	437.3	417.9	406.8	408.6
12.5°	666.3	646.9	601.6	544.9	485.4	431.2	385.5	346.6	319.4	305.1	305.6
15°	668.5	643.7	583.0	511.0	435.8	367.3	310.3	263.1	231.4	215.2	215.0
17.5°	672.2	641.2	563.3	474.4	385.5	305.9	242.2	196.0	168.0	155.0	154.0
20°	676.1	637.3	541.2	434.8	333.1	248.9	189.7	153.5	135.9	128.7	128.2
22.5°	681.7	633.8	518.4	393.1	281.8	202.7	156.0	131.7	122.3	118.7	118.2
25°	690.8	632.1	494.0	349.6	235.6	169.5	135.9	120.9	115.5	113.0	112.8
27.5°	706.1	634.6	471.2	307.3	198.0	147.2	124.6	115.5	111.5	109.3	109.1
30°	725.7	642.2	447.1	267.3	168.8	131.9	117.7	111.8	108.6	106.4	106.4
32.5°	758.4	655.0	421.8	232.7	147.9	121.4	112.5	108.6	105.9	104.2	103.9
35°	806.5	679.0	398.2	203.9	132.9	113.7	108.1	105.1	103.2	102.2	102.2
37.5°	876.6	717.1	377.4	183.3	123.8	108.6	103.9	101.7	100.5	100.5	100.5
40°	970.6	769.7	360.4	169.5	118.7	104.9	100.7	99.0	98.3	98.5	98.5
42.5°	1086.8	838.0	349.1	159.9	116.2	102.7	98.5	97.0	96.3	96.1	96.3
45°	1219.3	915.6	347.9	152.8	113.7	101.2	97.0	95.6	94.1	93.1	93.1
47.5°	1348.0	994.5	357.9	150.4	111.0	99.5	95.8	94.3	92.1	89.9	89.9
50°	1461.7	1061.5	371.5	151.3	110.1	97.0	93.8	93.1	89.7	87.2	87.0
52.5°	1552.1	1113.1	382.5	154.3	111.0	95.3	91.4	91.6	88.0	85.2	85.0
55°	1624.6	1147.0	379.6	157.2	113.3	94.3	89.2	89.7	86.7	84.0	84.0
57.5°	1656.3	1134.5	346.9	154.8	115.0	94.6	87.5	89.4	87.0	84.5	84.5
60°	1588.3	1023.2	285.7	144.0	112.8	93.8	86.7	90.4	90.2	87.7	87.5
62.5°	1382.4	824.0	221.6	128.0	105.1	90.2	84.8	90.2	92.9	92.1	91.9
65°	1065.5	586.9	169.3	110.8	94.8	84.0	79.6	84.5	88.2	89.2	88.9
67.5°	691.6	359.7	130.5	94.6	83.3	76.9	73.0	75.2	75.9	75.9	75.4
70°	340.0	193.6	103.9	79.6	71.5	69.3	67.1	65.8	64.6	63.6	63.6
72.5°	167.8	126.5	85.5	67.3	61.7	60.7	60.2	58.7	57.7	56.5	56.0
75°	124.1	102.9	72.7	56.7	53.1	52.1	53.1	51.8	51.6	50.6	50.1
77.5°	102.0	87.7	62.6	48.6	45.4	43.7	45.2	45.4	45.7	44.2	43.7
80°	82.8	74.2	52.3	40.3	37.3	36.1	37.1	39.1	39.6	37.3	36.4
82.5°	59.7	60.7	42.3	31.4	29.0	28.0	30.0	32.4	32.9	29.7	29.0
85°	50.1	50.6	32.4	22.4	19.9	18.4	21.6	24.1	25.8	22.6	21.9
87.5°	20.9	29.7	18.7	12.5	11.1	9.6	11.5	12.8	15.5	14.2	14.0
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)