

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: McGRAW-EDISON

Report Number: P534589

Luminaire Tested: **GALN-SA4A-AMB-U-SL3-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-7)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-AMB-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3344 lumens
Efficiency: N/A
Efficacy: 41.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

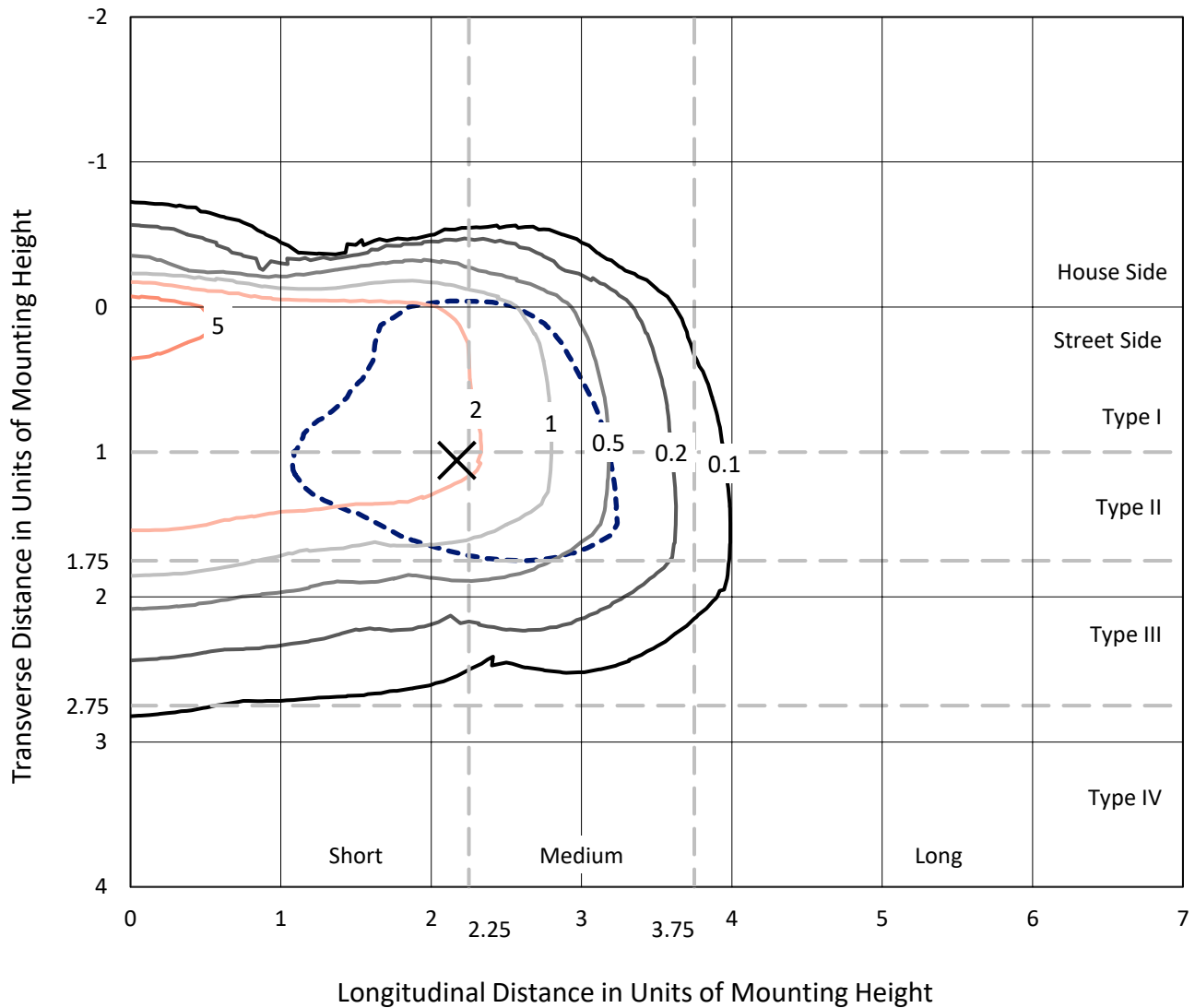
Input Watts (W): 79.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

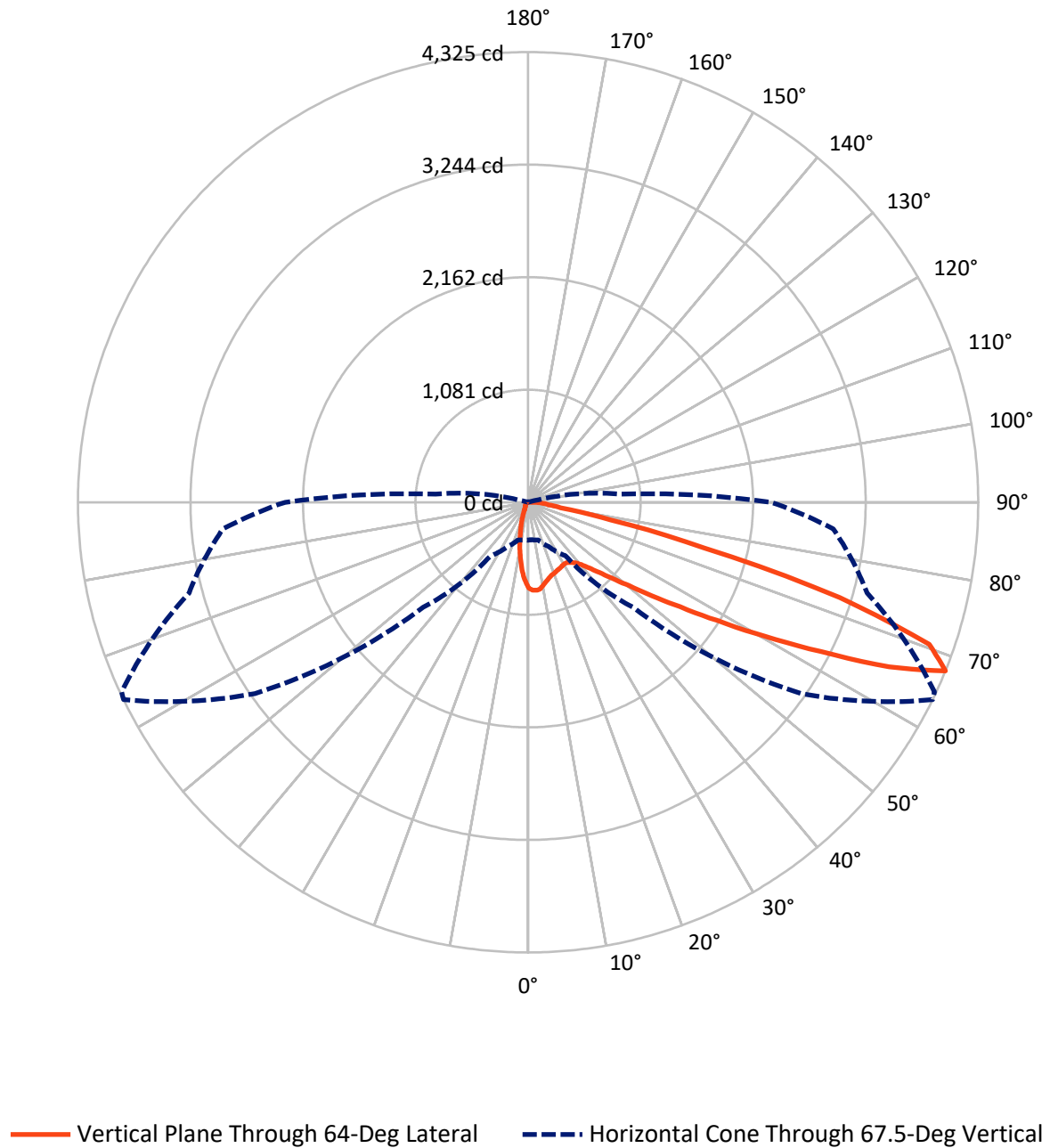
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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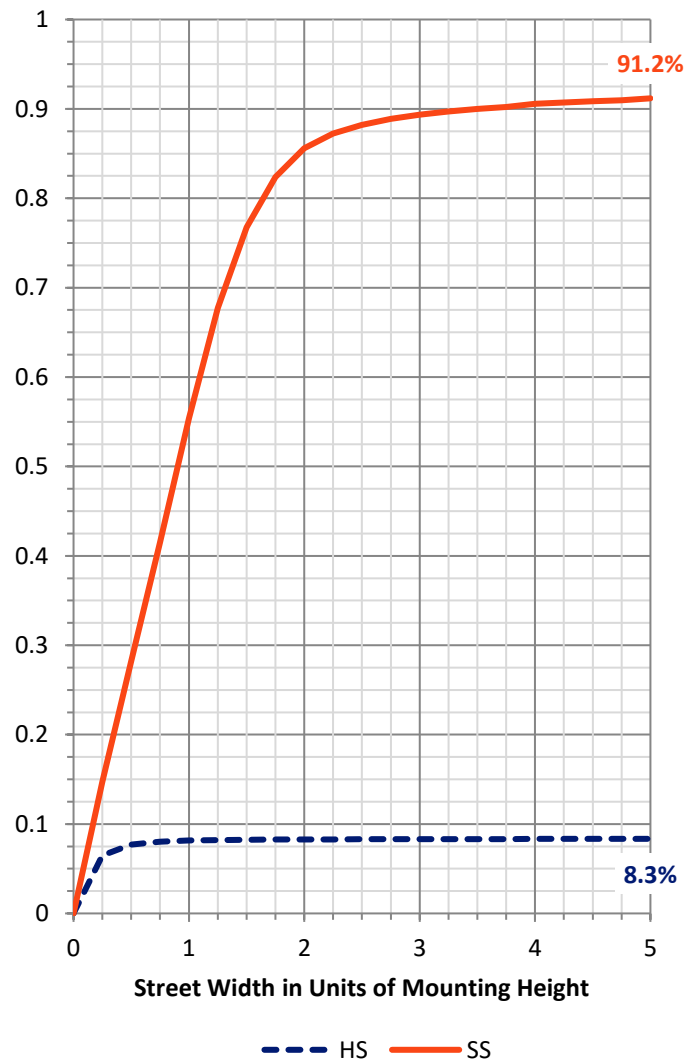
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	281.6	0.0	281.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3062.4	0.0	3062.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	3344.0	0.0	3344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	1.9
10°-20°	131.0	3.9
20°-30°	184.1	5.5
30°-40°	269.2	8.0
40°-50°	446.3	13.3
50°-60°	781.7	23.4
60°-70°	1008.4	30.2
70°-80°	414.8	12.4
80°-90°	45.3	1.4
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°	3344.0	100.0
0°-180°	3344.0	100.0

Coefficient of Utilization



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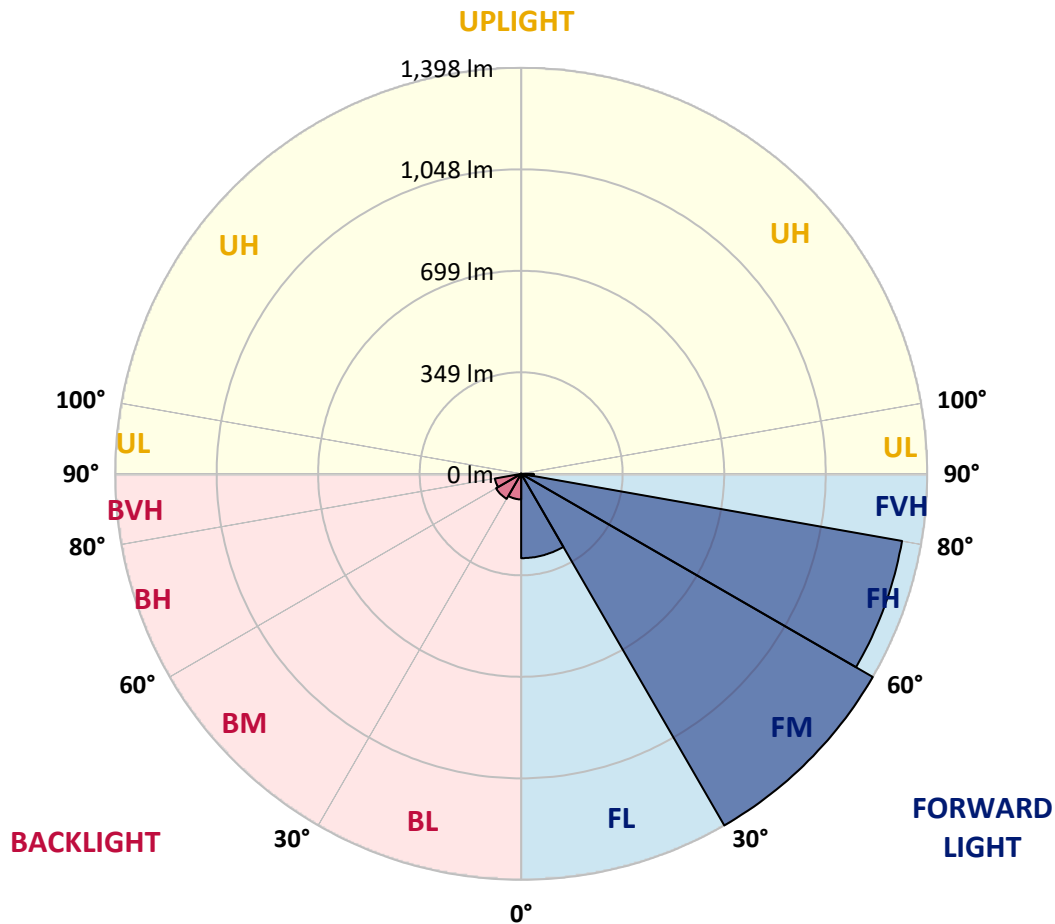
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	290.3	8.7			
FM	(30°-60°)	1397.6	41.8			
FH	(60°-80°)	1331.3	39.8			G1/1800
FVH	(80°-90°)	43.2	1.3			G1/100
BL	(0°-30°)	88.0	2.6	B0/110		
BM	(30°-60°)	99.6	3.0	B0/220		
BH	(60°-80°)	91.9	2.7	B0/110		G0/110
BVH	(80°-90°)	2.1	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	824.0	824.0	824.0	824.0	824.0	824.0	824.0	824.0	824.0	824.0	824.0
2.5°	874.8	883.8	878.4	874.8	872.9	863.9	860.3	845.8	849.4	834.9	824.0
5°	849.4	851.2	854.8	858.5	871.1	867.5	860.3	849.4	847.6	831.3	805.9
7.5°	786.0	787.8	793.3	807.7	813.2	818.6	836.7	840.3	840.3	811.4	778.8
10°	724.4	720.8	728.1	735.3	755.2	778.8	791.4	807.7	809.6	796.9	762.5
12.5°	666.5	662.9	673.7	684.6	708.1	731.7	755.2	780.6	786.0	789.6	746.2
15°	621.2	624.8	630.3	642.9	666.5	697.3	728.1	755.2	757.0	780.6	737.1
17.5°	592.2	592.2	597.7	610.3	633.9	664.7	699.1	735.3	740.7	777.0	733.5
20°	590.4	586.8	585.0	590.4	608.5	632.1	679.2	726.2	729.9	773.3	738.9
22.5°	599.5	594.0	590.4	586.8	594.0	614.0	661.0	711.8	720.8	773.3	740.7
25°	615.8	614.0	610.3	601.3	594.0	604.9	642.9	704.5	713.6	775.1	748.0
27.5°	646.6	642.9	639.3	624.8	608.5	601.3	630.3	693.6	704.5	782.4	758.8
30°	686.4	686.4	684.6	670.1	639.3	612.2	632.1	686.4	695.5	789.6	767.9
32.5°	740.7	740.7	738.9	728.1	688.2	642.9	641.1	690.0	700.9	804.1	778.8
35°	800.5	795.1	796.9	793.3	751.6	686.4	668.3	709.9	713.6	825.9	791.4
37.5°	842.2	853.0	863.9	869.3	833.1	749.8	715.4	737.1	742.5	862.1	813.2
40°	918.2	921.8	936.3	952.6	930.9	831.3	784.2	786.0	791.4	900.1	853.0
42.5°	983.4	981.6	1014.2	1039.6	1028.7	938.1	871.1	862.1	865.7	974.4	912.8
45°	1045.0	1054.1	1101.1	1159.1	1159.1	1064.9	983.4	961.7	959.9	1084.8	1008.8
47.5°	1113.8	1131.9	1195.3	1287.7	1329.3	1220.7	1121.1	1093.9	1081.2	1222.5	1153.7
50°	1186.3	1202.6	1271.4	1383.7	1515.9	1452.5	1291.3	1258.7	1269.6	1389.1	1314.9
52.5°	1253.3	1258.7	1316.7	1427.1	1626.4	1764.0	1537.6	1492.3	1483.3	1593.8	1512.3
55°	1271.4	1280.4	1331.2	1429.0	1684.3	1997.6	2055.6	1773.1	1756.8	1782.1	1707.9
57.5°	1240.6	1253.3	1302.2	1383.7	1691.6	2164.3	2477.6	2142.5	2117.2	1966.8	1946.9
60°	1072.2	1090.3	1133.7	1240.6	1566.6	2258.4	2794.5	2608.0	2557.3	2198.7	2289.2
62.5°	851.2	838.5	921.8	1057.7	1304.0	2135.3	3087.9	3156.7	3124.1	2568.1	2718.5
65°	521.6	523.4	547.0	704.5	1046.8	1756.8	3327.0	3812.4	3814.2	3104.2	3013.7
67.5°	364.0	360.4	374.9	469.1	628.5	1427.1	3203.8	4324.9	4308.6	3372.3	2943.0
70°	282.5	277.1	275.3	344.1	441.9	869.3	2655.1	4089.5	4069.5	3165.8	2425.1
72.5°	204.7	199.2	208.3	277.1	384.0	514.4	1890.8	3133.2	3104.2	2303.7	1476.0
75°	128.6	130.4	148.5	208.3	360.4	365.8	1110.2	1747.7	1755.0	1106.6	603.1
77.5°	74.3	72.4	90.6	146.7	298.8	338.7	568.7	815.0	764.3	371.3	175.7
80°	32.6	32.6	47.1	103.2	217.3	336.9	347.7	315.1	307.9	88.7	59.8
82.5°	14.5	14.5	21.7	59.8	144.9	269.9	293.4	201.0	181.1	34.4	34.4
85°	1.8	1.8	9.1	30.8	68.8	137.6	248.1	163.0	141.3	16.3	21.7
87.5°	0.0	0.0	3.6	9.1	19.9	72.4	144.9	97.8	85.1	7.2	9.1
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°	824.0	824.0	824.0	824.0	824.0	824.0	824.0	824.0	824.0	824.0	824.0
2.5°	815.0	804.1	784.2	760.7	731.7	717.2	695.5	673.7	666.5	664.7	661.0
5°	796.9	775.1	729.9	679.2	623.0	570.5	527.0	492.6	465.5	456.4	441.9
7.5°	762.5	738.9	664.7	581.4	498.1	416.6	344.1	297.0	269.9	262.6	259.0
10°	737.1	700.9	597.7	483.6	365.8	280.7	211.9	168.4	144.9	134.0	134.0
12.5°	717.2	673.7	534.3	389.4	262.6	175.7	125.0	94.2	85.1	83.3	81.5
15°	704.5	641.1	474.5	298.8	184.7	110.5	81.5	76.1	74.3	72.4	72.4
17.5°	695.5	612.2	414.7	235.4	125.0	77.9	70.6	68.8	67.0	67.0	67.0
20°	690.0	588.6	353.2	179.3	83.3	67.0	63.4	61.6	59.8	59.8	58.0
22.5°	679.2	565.1	300.6	130.4	67.0	59.8	56.1	54.3	50.7	50.7	50.7
25°	677.3	541.5	251.7	90.6	59.8	54.3	48.9	45.3	43.5	41.7	41.7
27.5°	675.5	516.2	215.5	67.0	54.3	47.1	43.5	38.0	34.4	34.4	32.6
30°	664.7	490.8	179.3	58.0	48.9	41.7	36.2	32.6	29.0	27.2	27.2
32.5°	662.9	461.8	144.9	52.5	43.5	36.2	30.8	27.2	23.5	23.5	23.5
35°	657.4	425.6	112.3	47.1	39.8	32.6	27.2	23.5	19.9	19.9	19.9
37.5°	657.4	400.3	83.3	43.5	36.2	27.2	21.7	19.9	16.3	16.3	16.3
40°	670.1	373.1	63.4	39.8	32.6	25.4	19.9	16.3	14.5	14.5	14.5
42.5°	699.1	356.8	50.7	38.0	29.0	21.7	18.1	14.5	12.7	10.9	10.9
45°	758.8	360.4	47.1	34.4	25.4	19.9	14.5	12.7	10.9	9.1	9.1
47.5°	856.6	376.7	43.5	30.8	21.7	16.3	12.7	9.1	7.2	7.2	7.2
50°	965.3	409.3	41.7	27.2	19.9	14.5	10.9	7.2	7.2	5.4	5.4
52.5°	1124.7	461.8	38.0	25.4	18.1	12.7	9.1	7.2	5.4	5.4	5.4
55°	1318.5	552.4	34.4	23.5	14.5	10.9	7.2	5.4	3.6	3.6	3.6
57.5°	1543.1	655.6	30.8	19.9	12.7	9.1	7.2	3.6	3.6	1.8	1.8
60°	1840.1	796.9	27.2	18.1	10.9	7.2	5.4	3.6	1.8	1.8	1.8
62.5°	2240.3	934.5	23.5	14.5	9.1	5.4	3.6	3.6	1.8	1.8	1.8
65°	2428.7	974.4	19.9	12.7	7.2	5.4	3.6	1.8	1.8	0.0	0.0
67.5°	2334.5	891.1	16.3	10.9	7.2	5.4	3.6	1.8	0.0	0.0	0.0
70°	1838.3	670.1	16.3	9.1	7.2	5.4	3.6	1.8	0.0	0.0	0.0
72.5°	1055.9	405.7	14.5	9.1	5.4	5.4	3.6	1.8	1.8	0.0	0.0
75°	418.4	130.4	12.7	7.2	5.4	5.4	3.6	1.8	1.8	0.0	0.0
77.5°	112.3	48.9	10.9	7.2	7.2	7.2	3.6	1.8	1.8	0.0	0.0
80°	36.2	18.1	10.9	7.2	7.2	9.1	3.6	1.8	1.8	0.0	0.0
82.5°	27.2	12.7	10.9	7.2	7.2	7.2	3.6	1.8	1.8	0.0	0.0
85°	18.1	5.4	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	0.0
87.5°	9.1	3.6	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
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)