

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: P651671

Luminaire Tested: **GALN-SA1A-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3184.8 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

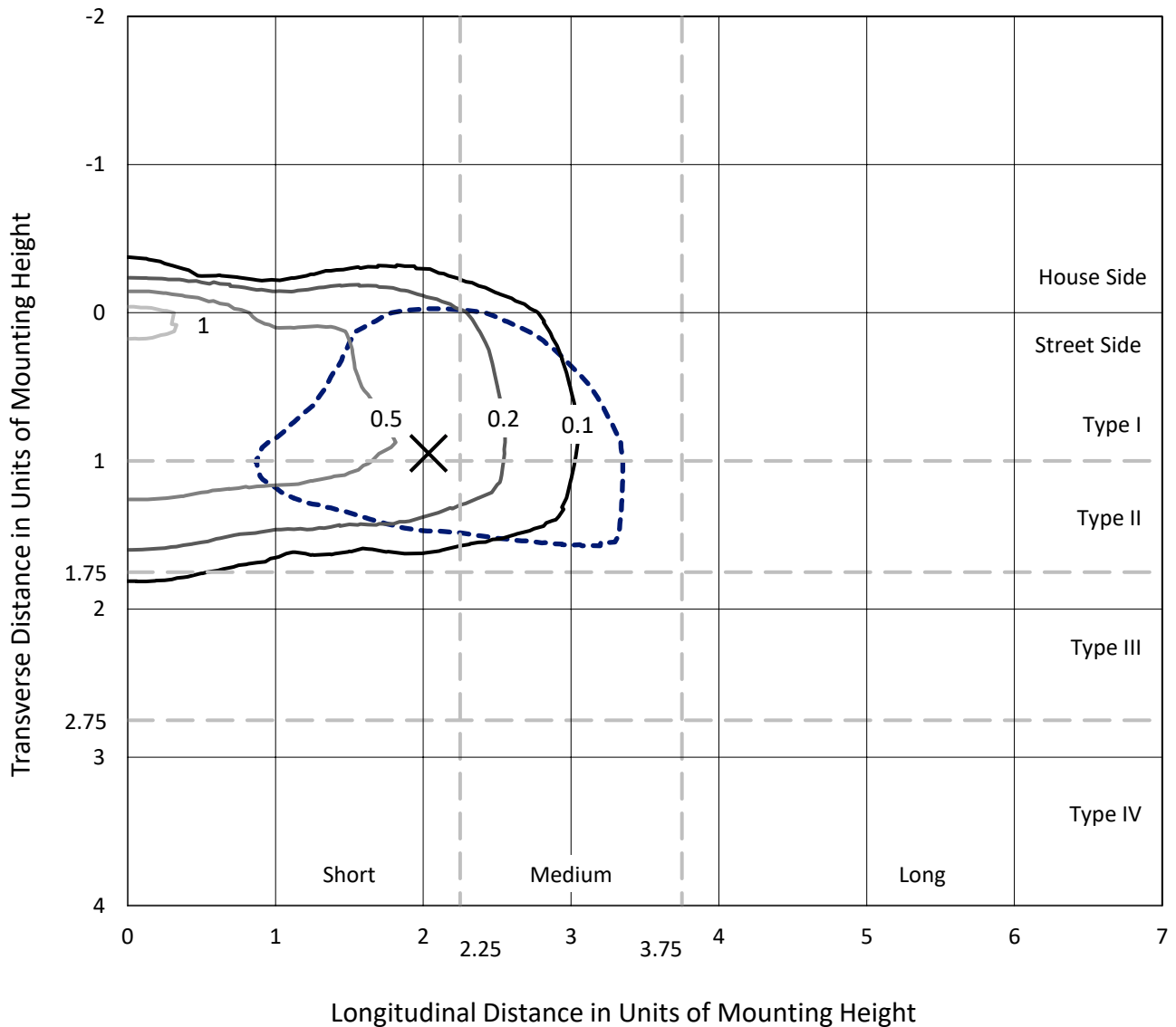
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

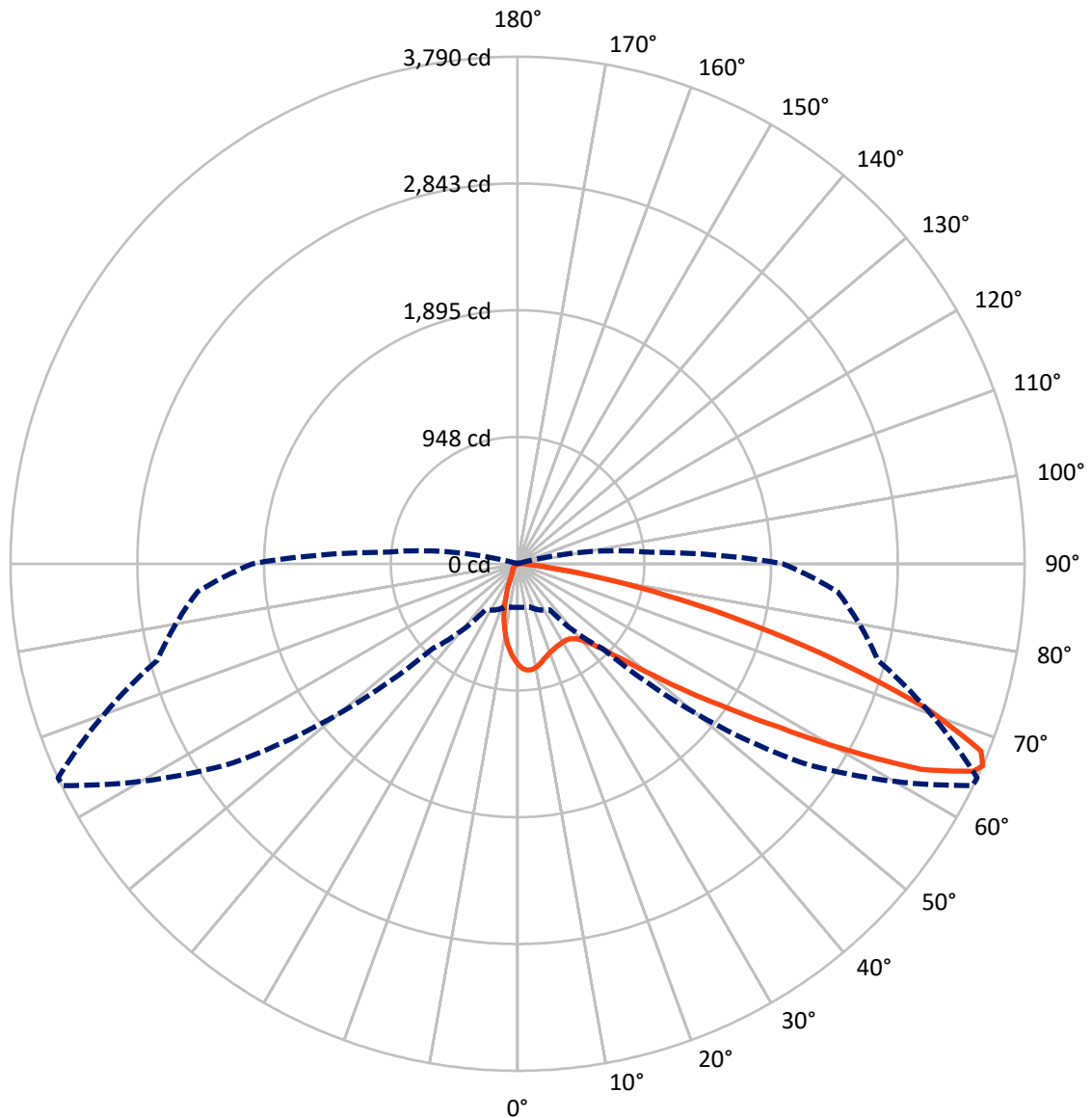
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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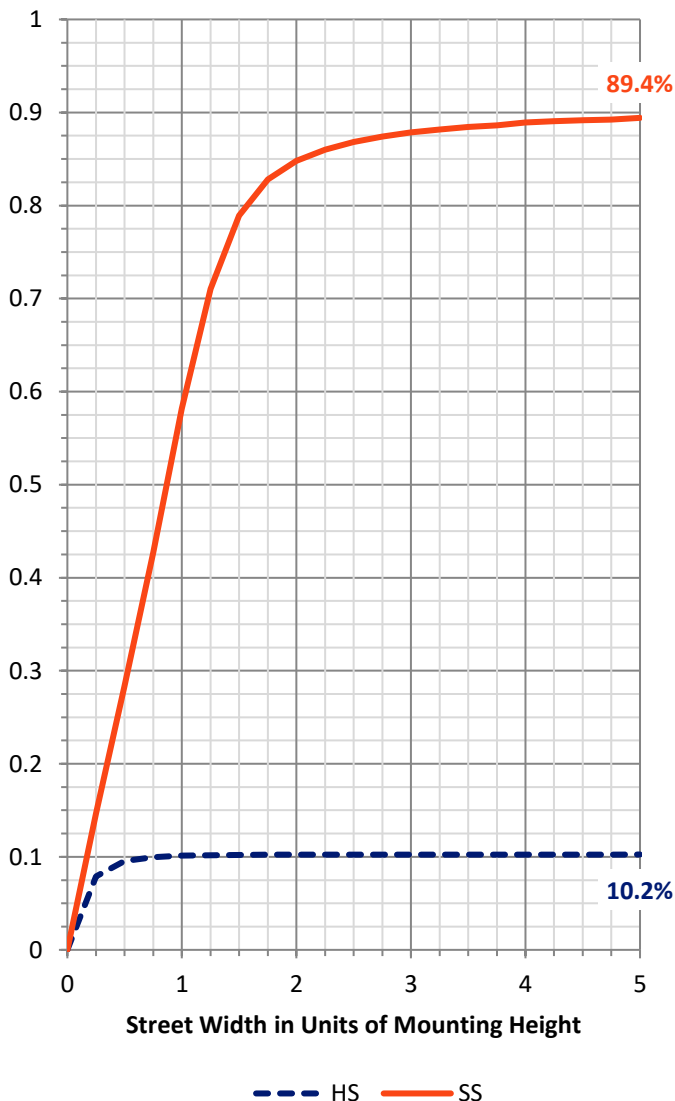
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	329.3	0.0	329.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	2855.5	0.0	2855.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	3184.8	0.0	3184.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	1.9
10°-20°	134.6	4.2
20°-30°	192.8	6.1
30°-40°	281.6	8.8
40°-50°	472.2	14.8
50°-60°	788.0	24.7
60°-70°	836.4	26.3
70°-80°	378.8	11.9
80°-90°	38.8	1.2
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°	3184.8	100.0
0°-180°	3184.8	100.0

Coefficient of Utilization

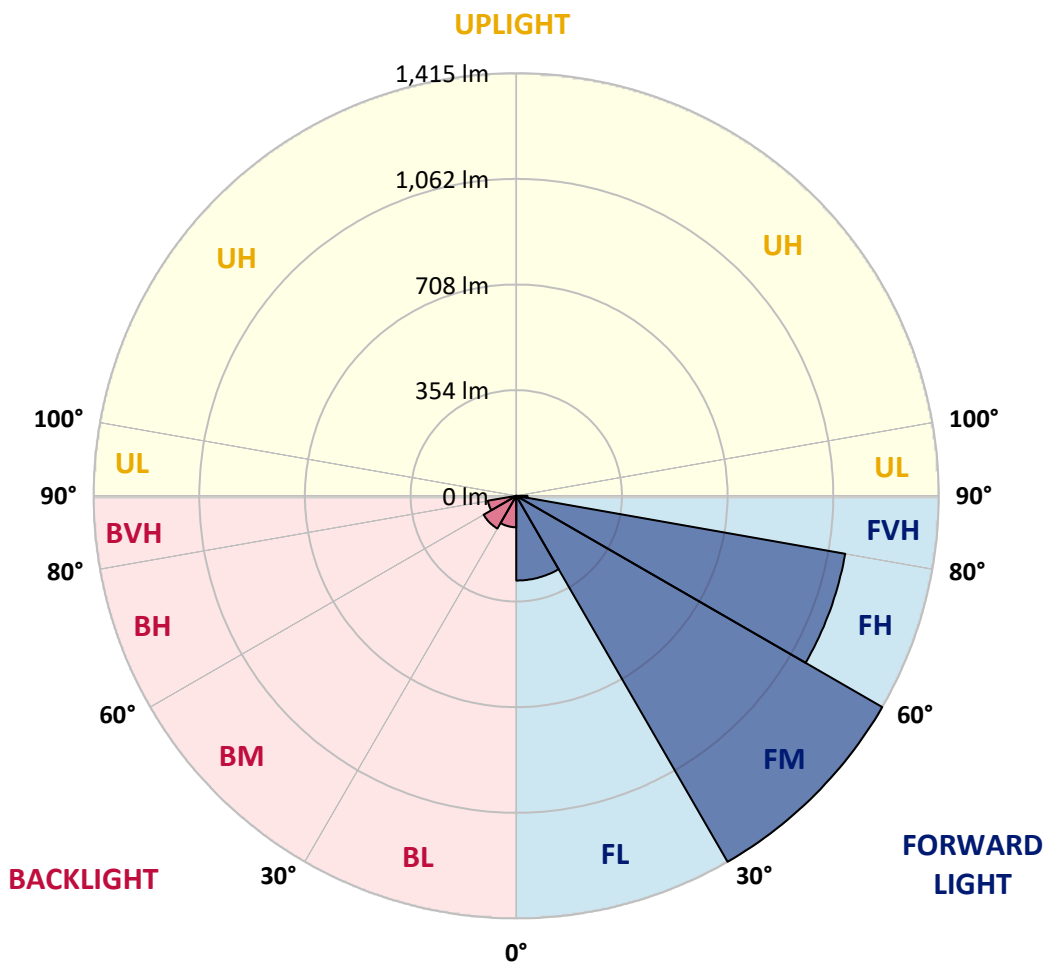


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.8	8.9			
FM (30°-60°)	1415.4	44.4			
FH (60°-80°)	1118.8	35.1			G1/1800
FVH (80°-90°)	37.5	1.2			G1/100
BL (0°-30°)	105.4	3.3	B0/110		
BM (30°-60°)	126.3	4.0	B0/220		
BH (60°-80°)	96.4	3.0	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			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°	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2
2.5°	795.9	796.8	797.9	799.4	800.5	797.2	792.6	787.5	786.4	775.5	762.1
5°	753.3	754.6	764.0	769.3	780.9	791.4	798.0	798.9	798.4	788.2	766.8
7.5°	692.6	696.3	705.6	714.6	736.3	756.3	780.0	796.5	797.6	794.8	768.3
10°	643.4	645.7	650.5	668.3	686.4	717.0	750.1	781.3	783.9	795.1	767.1
12.5°	604.8	608.3	614.1	627.9	649.7	678.4	716.1	758.1	763.5	791.0	763.5
15°	578.0	579.7	585.5	599.0	620.2	646.8	684.9	733.8	738.5	785.6	762.8
17.5°	565.3	567.3	571.3	582.1	599.5	624.3	661.4	714.2	720.1	782.1	765.1
20°	568.8	570.5	570.7	576.3	588.1	609.0	644.3	695.8	703.7	780.0	769.0
22.5°	588.4	588.5	585.9	583.4	587.4	602.5	633.7	684.2	692.2	779.5	773.6
25°	617.5	618.2	613.9	604.8	596.7	604.4	631.3	676.8	683.8	778.5	776.3
27.5°	658.0	657.8	656.5	641.4	618.2	613.1	633.3	672.6	678.7	775.5	777.4
30°	714.6	712.8	710.1	693.1	657.6	633.9	641.4	670.0	675.7	771.2	774.6
32.5°	770.3	776.7	776.3	760.2	715.9	671.1	658.4	673.5	677.6	768.3	770.5
35°	835.3	835.0	851.6	845.6	793.7	718.7	687.5	684.9	688.1	770.3	768.6
37.5°	895.5	901.1	926.9	933.2	885.8	785.8	728.6	709.5	710.5	783.4	773.3
40°	970.6	981.4	1019.8	1040.7	998.9	885.4	789.3	754.4	754.6	815.7	791.2
42.5°	1067.4	1084.4	1120.3	1155.1	1132.7	1003.2	880.2	825.6	825.2	872.5	832.1
45°	1185.1	1196.9	1237.7	1293.0	1278.8	1167.8	1012.7	935.9	930.3	965.6	904.5
47.5°	1286.6	1302.7	1344.3	1407.2	1471.8	1368.7	1171.1	1087.6	1084.0	1113.8	1028.9
50°	1330.9	1345.1	1388.7	1477.1	1633.6	1632.5	1406.8	1308.9	1302.7	1318.9	1221.2
52.5°	1282.3	1295.6	1339.7	1449.8	1709.7	1953.8	1748.4	1586.6	1579.1	1558.5	1450.9
55°	1115.8	1126.8	1191.9	1318.4	1680.4	2168.1	2219.1	1929.8	1900.5	1820.3	1711.0
57.5°	888.4	882.8	923.2	1070.2	1508.8	2239.9	2702.2	2357.2	2304.9	2046.6	1931.0
60°	615.6	632.9	649.2	746.0	1134.5	2115.4	3002.7	2894.6	2825.7	2269.2	2141.9
62.5°	452.6	464.0	474.7	519.5	713.3	1689.1	3055.9	3446.5	3385.4	2505.6	2342.9
65°	357.9	358.8	363.1	407.2	470.0	1098.3	2800.5	3757.8	3742.0	2733.2	2424.5
66°	326.1	326.3	333.0	380.3	421.8	894.4	2595.9	3781.4	3790.1	2787.8	2400.6
67.5°	285.0	284.2	293.8	341.8	384.2	644.9	2229.8	3685.4	3736.5	2829.8	2314.8
70°	220.9	219.8	231.7	286.8	353.9	430.3	1482.1	3164.5	3246.7	2743.9	2048.1
72.5°	147.2	148.0	168.2	226.3	337.7	378.8	891.6	2407.3	2523.4	2266.0	1611.2
75°	85.9	87.3	110.3	168.2	293.2	361.2	504.7	1716.6	1790.8	1564.7	1003.7
77.5°	45.0	45.6	61.7	111.0	224.8	335.4	336.2	1096.7	1131.5	760.4	397.3
80°	23.9	23.2	33.1	66.9	154.7	294.5	272.7	580.5	603.6	225.9	100.4
82.5°	9.0	9.9	17.7	43.9	91.4	211.4	234.9	256.6	248.7	49.7	42.1
85°	1.7	2.2	7.6	26.0	46.0	88.4	173.2	125.8	116.6	18.8	24.3
87.5°	0.3	0.4	2.2	6.2	6.6	29.9	51.2	34.8	30.1	6.9	10.1
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°	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2
2.5°	755.6	749.8	730.5	711.4	691.8	674.1	662.1	642.5	637.6	630.5	626.4
5°	754.2	740.6	703.4	662.8	624.9	584.0	552.9	522.7	506.6	498.4	495.4
7.5°	749.8	728.4	670.3	606.6	546.0	484.8	431.7	391.3	365.2	347.4	335.4
10°	741.3	711.6	631.8	544.2	452.6	371.9	304.6	253.4	213.8	201.3	201.8
12.5°	732.4	692.9	588.8	475.0	361.4	259.6	188.2	147.8	128.8	122.6	121.4
15°	724.3	675.0	546.6	407.9	269.1	168.2	121.4	107.1	101.9	100.9	100.7
17.5°	720.0	658.4	501.7	331.0	187.8	114.2	97.2	93.4	91.8	90.7	90.3
20°	716.3	644.0	458.6	259.2	128.4	93.6	87.1	83.4	80.9	79.8	79.1
22.5°	713.8	629.2	414.1	200.7	98.3	83.0	77.2	72.5	68.8	67.5	66.7
25°	709.9	612.8	369.1	146.7	82.8	73.8	67.1	61.6	56.8	54.4	54.0
27.5°	704.3	594.3	319.8	108.7	74.0	65.6	57.4	50.5	45.8	43.2	43.5
30°	695.3	575.0	270.6	86.3	66.9	57.2	48.4	41.7	37.2	35.2	35.1
32.5°	684.5	551.5	225.5	74.0	60.5	49.7	40.5	34.6	31.2	29.7	29.4
35°	674.4	527.9	179.4	66.4	53.7	42.8	34.0	29.0	26.5	25.1	25.4
37.5°	668.8	506.8	139.9	60.5	48.4	36.8	29.3	25.0	22.6	21.5	21.3
40°	672.5	489.6	111.2	55.1	42.4	31.6	25.1	21.5	19.2	17.7	17.7
42.5°	689.6	482.1	89.7	49.9	36.8	27.3	22.0	18.5	15.9	14.4	14.6
45°	742.1	490.1	75.1	45.2	31.6	23.6	18.9	15.3	12.9	11.9	11.6
47.5°	829.2	519.9	64.9	40.2	27.1	20.2	15.9	12.7	10.3	9.5	9.3
50°	981.5	581.6	57.4	35.2	23.0	17.2	13.1	10.1	8.2	7.3	7.3
52.5°	1191.0	716.3	52.1	29.7	19.3	14.6	10.8	8.2	6.5	5.8	5.6
55°	1410.0	858.3	49.3	25.0	16.1	12.0	8.6	6.5	5.0	4.3	4.1
57.5°	1620.6	969.7	46.0	20.2	12.9	9.3	6.6	5.0	3.4	3.0	2.8
60°	1822.6	1059.8	39.2	16.1	10.1	6.6	5.0	3.4	2.4	1.9	1.9
62.5°	2003.3	1112.3	30.8	12.9	7.7	4.7	3.2	2.6	1.7	1.3	1.3
65°	2024.4	1044.1	23.2	9.9	5.6	3.0	1.9	1.9	1.3	0.8	0.8
66°	1982.0	986.2	20.4	9.0	5.0	2.6	1.7	1.5	1.1	0.7	0.7
67.5°	1887.4	887.5	17.7	7.7	4.1	1.9	1.3	1.3	0.8	0.4	0.4
70°	1630.8	724.9	14.0	5.8	3.0	1.5	0.8	0.8	0.7	0.4	0.4
72.5°	1242.9	541.2	11.4	4.3	2.2	1.1	0.7	0.7	0.7	0.4	0.4
75°	749.7	291.5	8.8	3.2	1.9	0.8	0.4	0.7	0.8	0.7	0.4
77.5°	276.2	99.2	6.9	2.6	1.5	0.8	0.4	0.4	0.8	0.7	0.7
80°	67.8	25.8	5.0	2.2	1.5	0.8	0.4	0.4	0.8	0.8	0.8
82.5°	31.4	10.9	3.4	1.9	1.5	0.8	0.4	0.4	0.7	0.8	0.8
85°	18.1	5.1	2.8	2.2	1.5	0.8	0.4	0.4	0.7	0.8	0.8
87.5°	7.3	2.6	2.6	2.2	1.7	1.1	0.4	0.4	0.4	0.7	0.7
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)