

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: P651669

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651669  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2271.5 lumens  
Efficiency: N/A  
Efficacy: 68.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

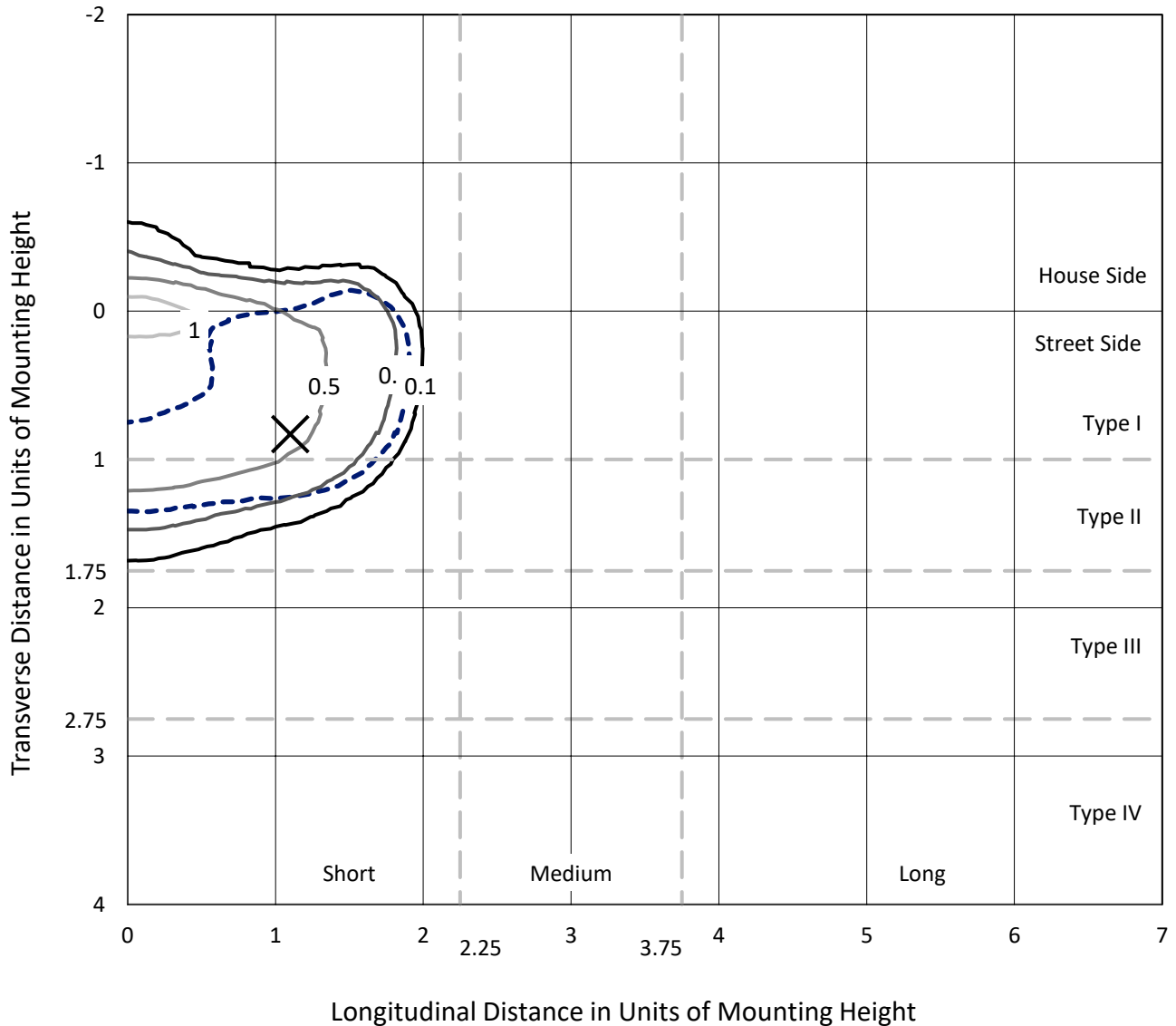
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

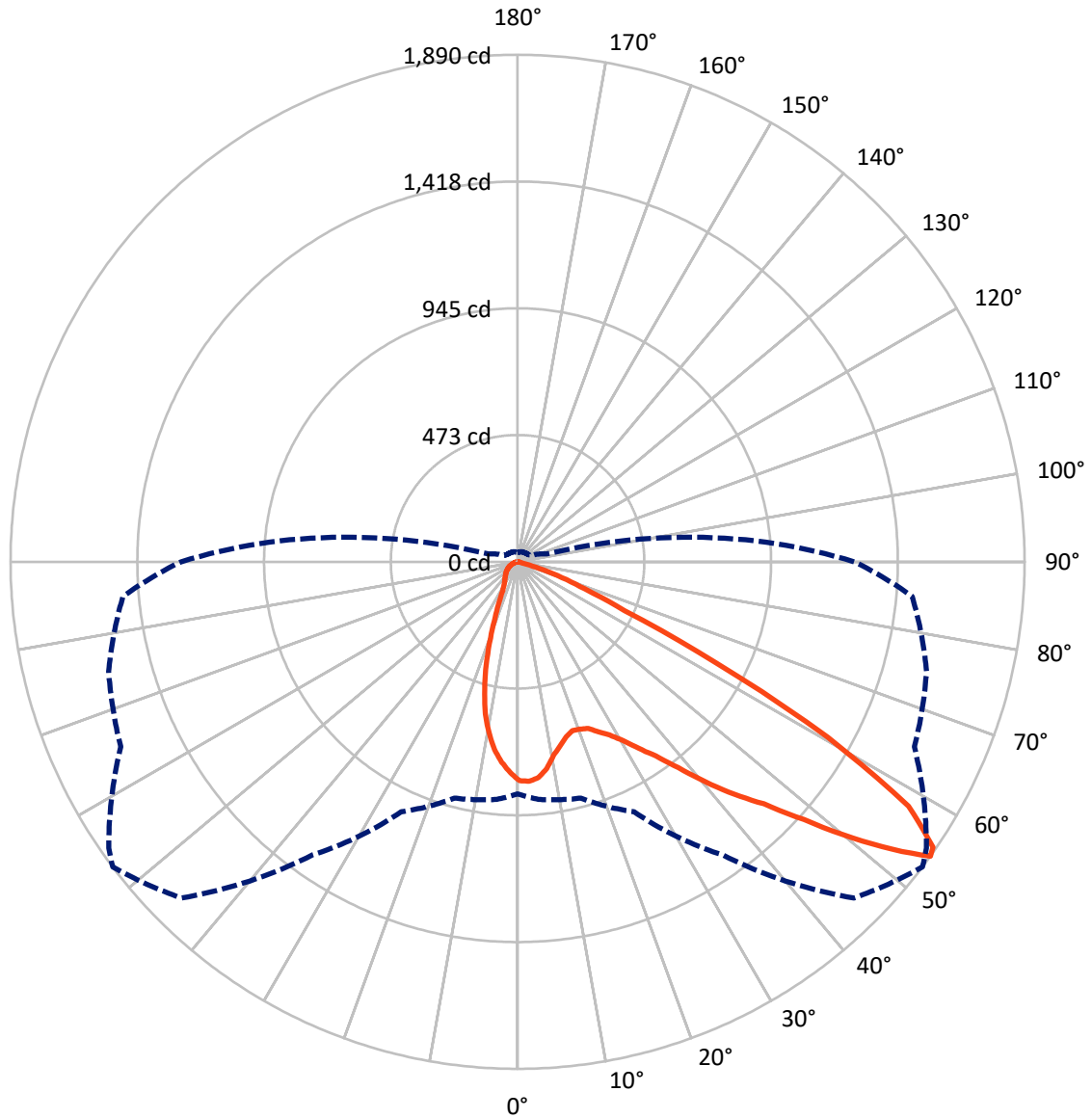
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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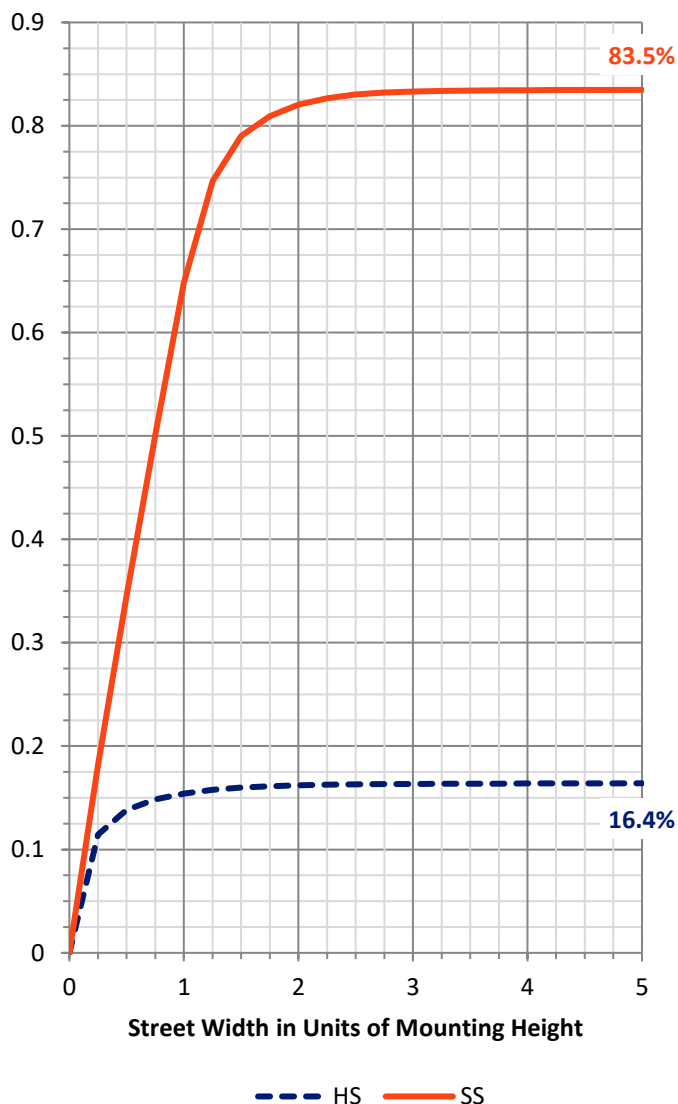
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	375.8	0.0	375.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	1895.7	0.0	1895.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	2271.5	0.0	2271.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.0	3.1
10°-20°	160.5	7.1
20°-30°	228.1	10.0
30°-40°	352.0	15.5
40°-50°	551.9	24.3
50°-60°	641.1	28.2
60°-70°	242.3	10.7
70°-80°	23.0	1.0
80°-90°	2.6	0.1
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°	2271.5	100.0
0°-180°	2271.5	100.0

**Coefficient of Utilization**

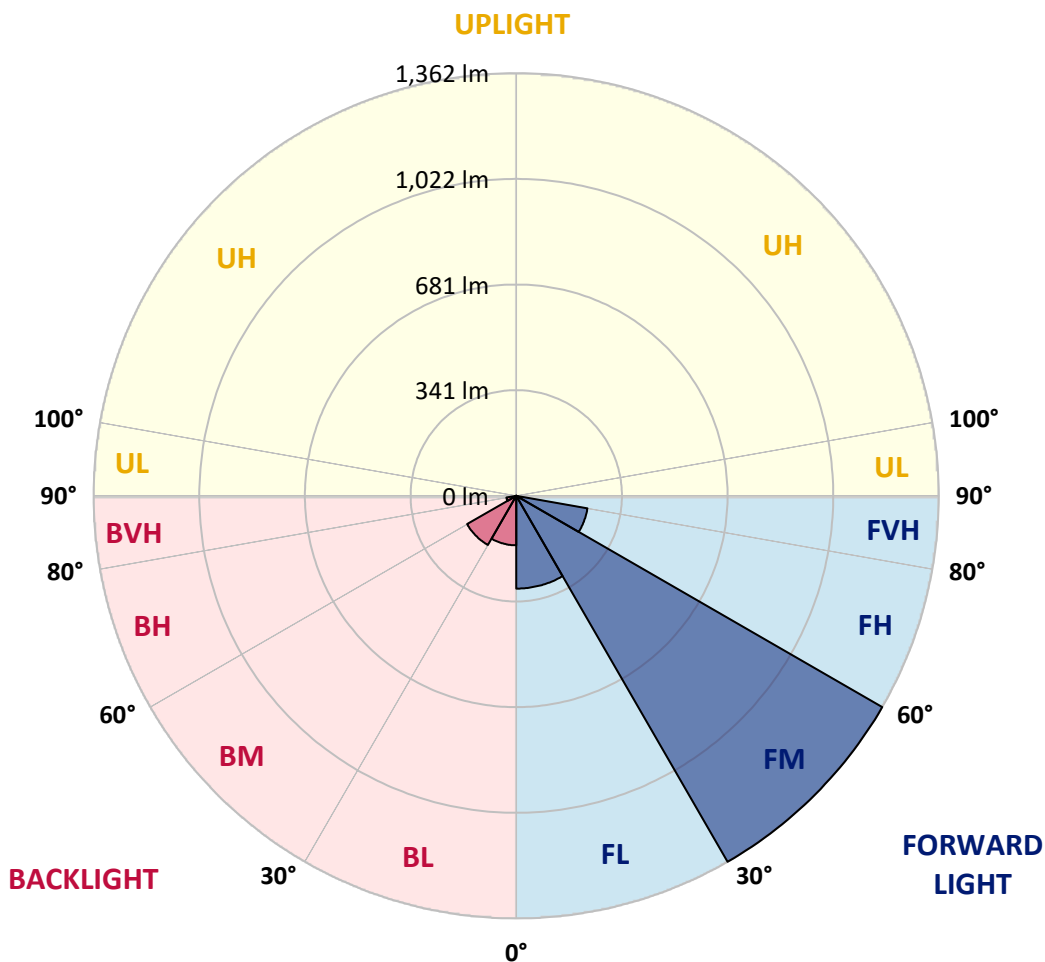


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	299.1	13.2			
FM (30°-60°)	1362.2	60.0			
FH (60°-80°)	233.1	10.3			G0/660
FVH (80°-90°)	1.3	0.1			G0/10
BL (0°-30°)	159.5	7.0	B1/500		
BM (30°-60°)	182.9	8.1	B0/220		
BH (60°-80°)	32.2	1.4	B0/110		G0/110
BVH (80°-90°)	1.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	815.9	815.9	815.9	815.9	815.9	815.9	815.9	815.9	815.9	815.9	815.9
2.5°	811.6	804.5	811.6	812.5	817.6	822.2	819.3	826.0	822.2	818.0	816.8
5°	746.1	755.8	756.2	771.4	768.1	796.0	808.3	804.9	825.6	824.3	821.4
7.5°	687.3	683.5	688.5	706.3	728.7	760.9	778.7	778.3	807.9	829.1	826.9
10°	632.7	632.3	642.8	656.8	675.8	709.7	734.2	746.5	792.6	824.8	829.5
12.5°	595.8	594.2	605.6	617.0	647.1	673.3	704.6	710.6	763.5	810.0	817.6
15°	571.7	575.5	576.3	598.4	617.5	652.1	676.7	688.9	749.9	798.1	827.3
17.5°	567.5	572.6	573.0	591.2	611.5	640.7	662.3	678.8	738.5	804.1	827.7
20°	575.9	573.0	575.5	586.9	606.9	634.8	666.1	671.6	734.6	807.0	832.4
22.5°	600.1	599.2	592.9	602.2	616.1	645.4	675.0	683.5	745.6	822.2	836.2
25°	626.7	631.4	625.5	624.2	633.9	662.7	702.1	713.1	782.5	849.7	848.1
27.5°	676.7	672.0	672.0	666.1	663.5	677.5	731.2	749.5	823.5	885.3	861.6
30°	724.5	729.6	725.8	727.9	711.0	709.7	772.7	795.2	896.3	939.5	890.4
32.5°	800.2	793.5	799.8	794.3	771.9	749.0	829.1	852.3	984.3	1001.7	933.5
35°	863.3	860.3	887.4	886.6	850.2	827.7	888.7	923.4	1045.7	1076.1	984.3
37.5°	953.0	947.5	978.4	993.2	960.6	927.2	974.1	1014.4	1102.8	1135.9	1036.4
40°	1045.3	1059.2	1100.7	1125.3	1090.5	1046.1	1078.7	1090.9	1140.9	1174.8	1071.9
42.5°	1162.1	1182.4	1224.7	1245.9	1242.9	1194.6	1184.9	1184.5	1168.4	1163.8	1098.2
45°	1274.2	1266.6	1331.7	1377.9	1415.2	1401.2	1287.3	1274.6	1212.0	1180.3	1104.9
47.5°	1323.3	1320.8	1365.2	1447.3	1574.3	1591.6	1436.3	1387.2	1285.6	1249.6	1141.7
50°	1259.8	1272.9	1316.9	1407.9	1602.6	1735.1	1619.1	1553.1	1371.5	1334.3	1229.0
52.5°	1052.4	1061.3	1103.2	1218.8	1506.1	1819.7	1794.3	1756.2	1529.4	1467.6	1380.8
54°	865.4	889.1	912.0	1028.0	1334.3	1772.7	1890.4	1861.1	1632.2	1578.5	1476.5
55°	753.7	767.7	784.1	899.7	1215.4	1693.2	1879.4	1881.9	1701.2	1613.2	1540.8
57.5°	550.6	560.3	543.4	594.6	834.5	1375.0	1719.0	1787.5	1794.3	1665.3	1580.2
60°	420.7	424.9	405.9	413.9	518.8	943.7	1329.6	1412.2	1618.7	1455.4	1338.5
62.5°	326.3	327.1	326.7	340.7	357.6	555.2	831.6	904.7	1115.9	1033.4	909.0
65°	240.4	236.6	243.3	285.7	305.1	349.1	438.0	491.3	606.4	512.1	366.1
67.5°	155.8	157.0	163.7	212.4	261.6	267.9	269.5	265.3	265.8	146.4	91.8
70°	93.5	95.6	93.5	120.2	187.0	192.1	175.6	171.4	133.7	34.7	34.3
72.5°	55.4	52.5	47.0	51.6	77.9	93.1	83.8	83.3	52.5	20.4	20.4
75°	23.3	21.2	17.3	15.6	20.8	19.9	19.9	17.7	14.0	13.5	12.7
77.5°	4.6	4.6	3.4	3.8	5.0	5.9	7.2	7.2	8.5	8.5	8.1
80°	0.0	0.4	1.3	2.5	3.8	5.5	6.3	6.3	7.2	7.2	5.9
82.5°	0.0	0.4	1.3	2.5	3.4	5.0	6.3	6.3	7.2	7.7	6.3
85°	0.0	0.4	1.3	2.1	3.4	4.2	4.2	3.8	2.9	2.5	1.7
87.5°	0.0	0.0	0.4	0.8	0.4	0.8	0.8	0.8	0.8	0.8	0.8
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°	815.9	815.9	815.9	815.9	815.9	815.9	815.9	815.9	815.9	815.9	815.9
2.5°	819.7	819.3	809.1	792.6	788.8	774.8	773.1	764.7	769.3	753.7	752.0
5°	812.9	807.9	795.6	785.0	754.1	732.1	714.8	693.6	681.3	683.5	675.4
7.5°	822.7	809.5	787.9	751.2	713.5	675.0	654.2	611.1	595.4	572.1	568.8
10°	812.5	802.8	769.3	708.4	656.4	600.9	552.3	504.4	468.0	452.4	449.0
12.5°	811.6	794.7	738.9	671.2	595.8	516.3	445.6	385.9	349.9	329.7	325.0
15°	798.5	778.3	704.6	613.6	509.5	410.5	333.5	275.9	248.4	236.6	239.9
17.5°	799.8	769.3	670.4	552.7	424.5	301.3	227.7	198.1	190.8	193.9	193.9
20°	798.5	749.5	628.8	482.4	325.0	209.1	167.2	156.6	161.2	170.6	168.5
22.5°	791.8	740.2	590.8	408.4	239.1	154.9	134.1	134.6	141.8	153.2	155.8
25°	796.8	719.4	542.5	333.5	174.3	123.5	116.4	119.3	127.0	135.4	137.1
27.5°	793.1	704.6	492.2	259.0	127.4	106.2	105.8	109.2	112.5	118.9	118.9
30°	797.3	691.0	442.6	192.6	105.0	97.3	95.6	98.1	101.6	102.9	102.4
32.5°	812.9	680.9	385.5	143.9	92.7	88.9	88.9	88.9	88.5	90.2	90.6
35°	847.2	682.6	335.1	111.3	84.6	81.7	80.4	78.7	77.9	78.7	79.1
37.5°	884.5	681.7	283.1	94.8	78.7	76.2	73.3	70.6	70.2	71.1	69.8
40°	901.0	689.8	234.9	85.0	73.3	70.2	65.6	63.5	63.9	64.8	63.9
42.5°	923.4	692.3	203.5	77.5	68.1	63.5	60.6	57.9	57.5	58.8	58.4
45°	923.0	677.9	170.6	73.3	63.5	58.4	54.6	52.5	52.5	53.3	53.7
47.5°	950.1	675.8	146.4	69.4	60.1	55.0	50.4	48.7	48.3	48.3	47.4
50°	1013.1	705.4	127.8	65.2	55.8	51.2	47.4	45.2	43.6	42.7	42.3
52.5°	1136.3	797.7	113.5	60.1	51.2	47.4	44.0	42.3	40.2	38.1	37.7
54°	1255.6	892.9	112.5	55.8	47.4	44.8	41.9	41.0	38.5	35.6	34.7
55°	1309.4	948.4	115.6	52.5	44.8	43.1	40.6	39.8	37.3	33.9	33.5
57.5°	1353.8	969.9	113.9	43.6	40.6	40.2	38.1	36.8	33.9	29.2	28.3
60°	1089.7	733.4	81.7	38.5	37.3	36.4	34.7	33.9	30.0	25.0	24.6
62.5°	688.5	421.9	52.1	33.9	32.5	31.3	29.2	28.3	25.0	19.9	18.6
65°	293.3	174.8	35.2	30.0	27.9	25.8	24.1	22.9	19.9	14.8	14.4
67.5°	76.2	62.2	29.2	26.2	23.3	20.4	19.0	16.9	13.5	10.2	9.8
70°	34.3	31.3	24.6	22.0	18.6	15.6	14.0	11.9	8.9	6.8	6.3
72.5°	20.4	19.9	18.6	16.5	14.0	11.9	10.2	8.1	5.9	3.8	3.8
75°	12.7	12.3	12.7	11.4	9.8	8.9	7.7	5.5	3.4	1.7	1.7
77.5°	7.7	7.7	7.7	7.2	6.8	6.8	5.5	3.4	1.7	0.4	0.4
80°	5.9	5.9	6.3	5.9	5.9	5.9	4.6	2.5	0.8	0.0	0.0
82.5°	5.9	6.3	7.2	6.8	5.9	5.0	4.2	2.5	0.8	0.0	0.0
85°	1.7	1.3	2.1	2.9	4.2	3.8	2.9	2.1	0.8	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	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)