

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: P651672

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3884.6 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

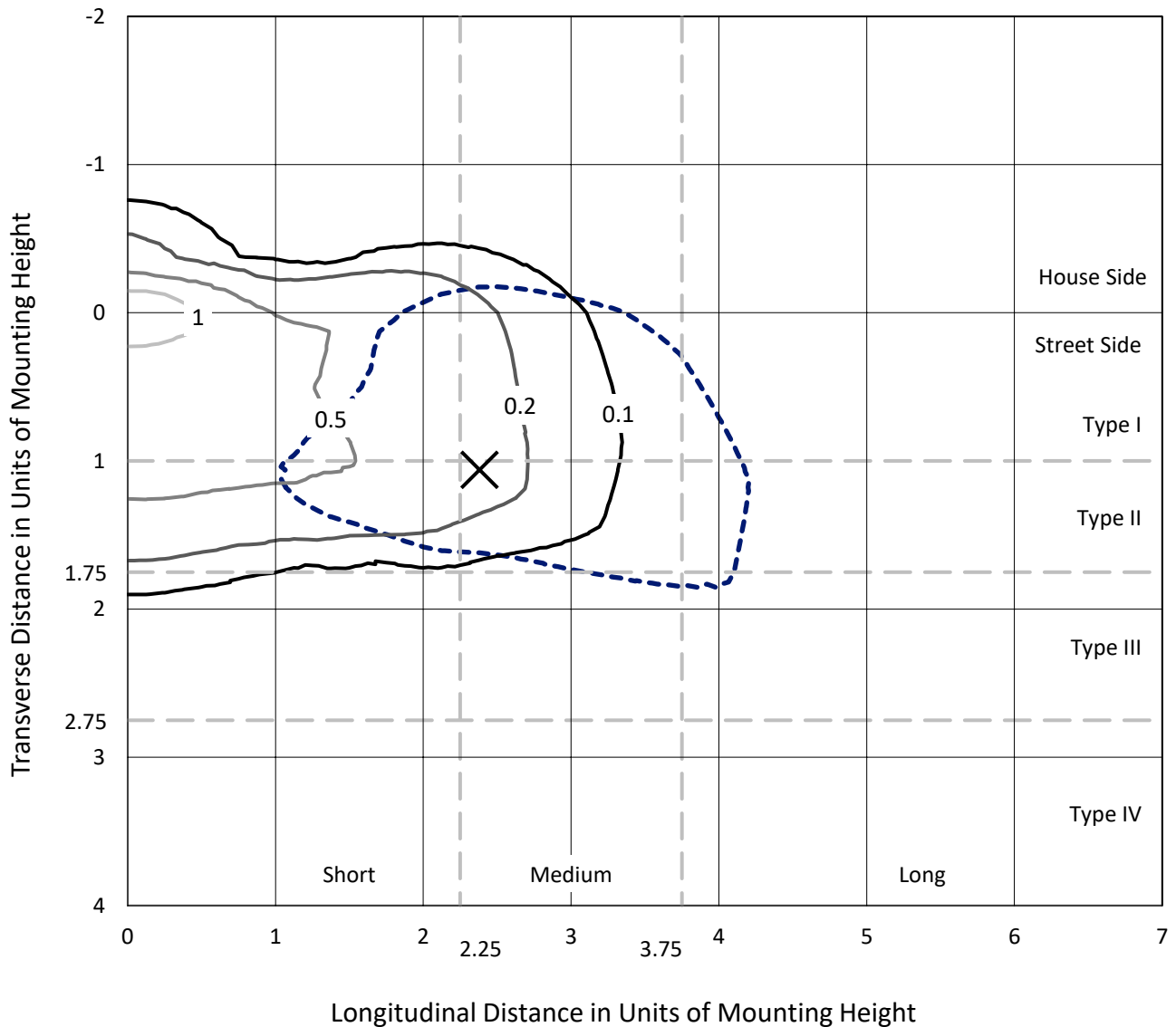
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

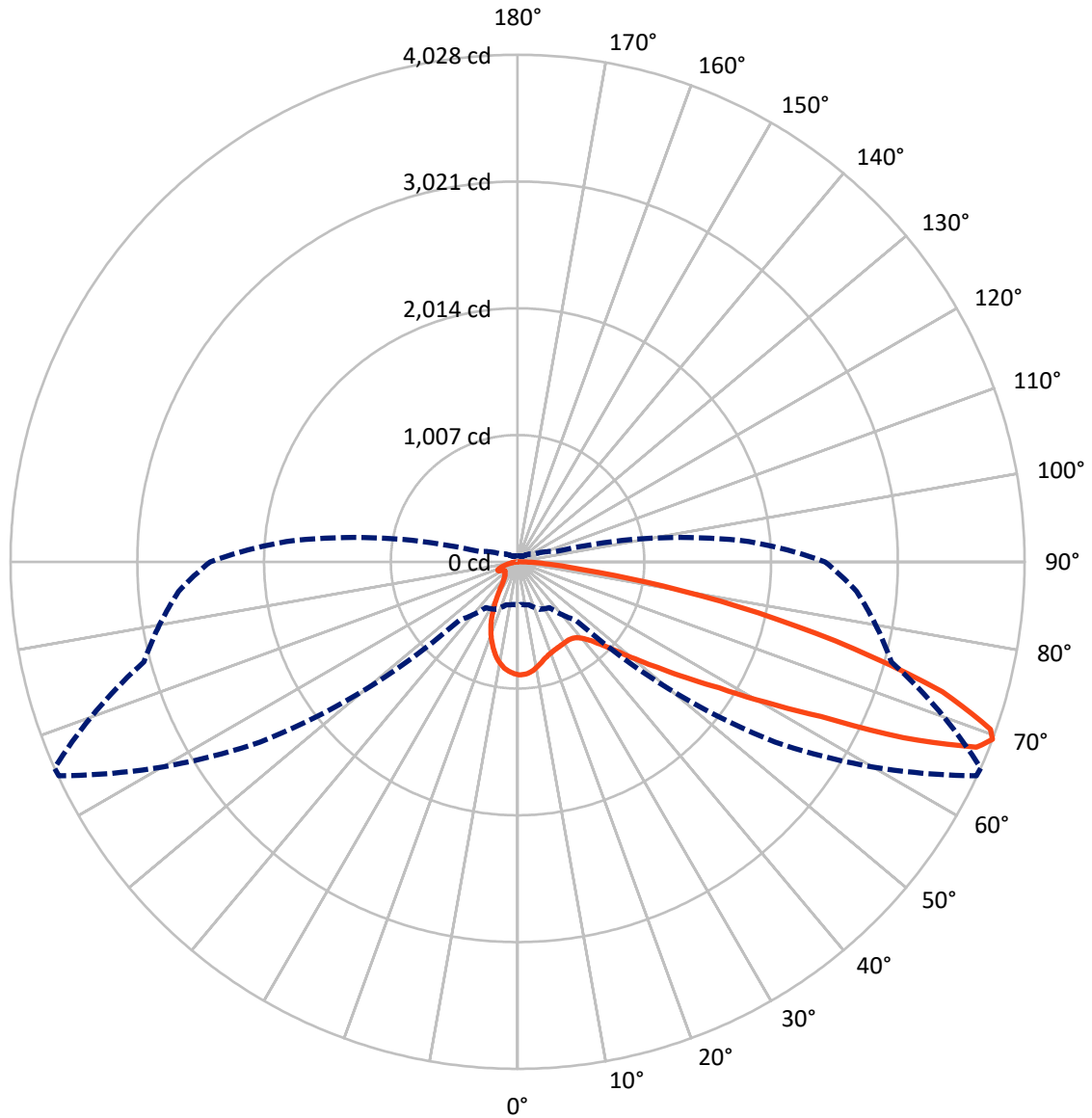
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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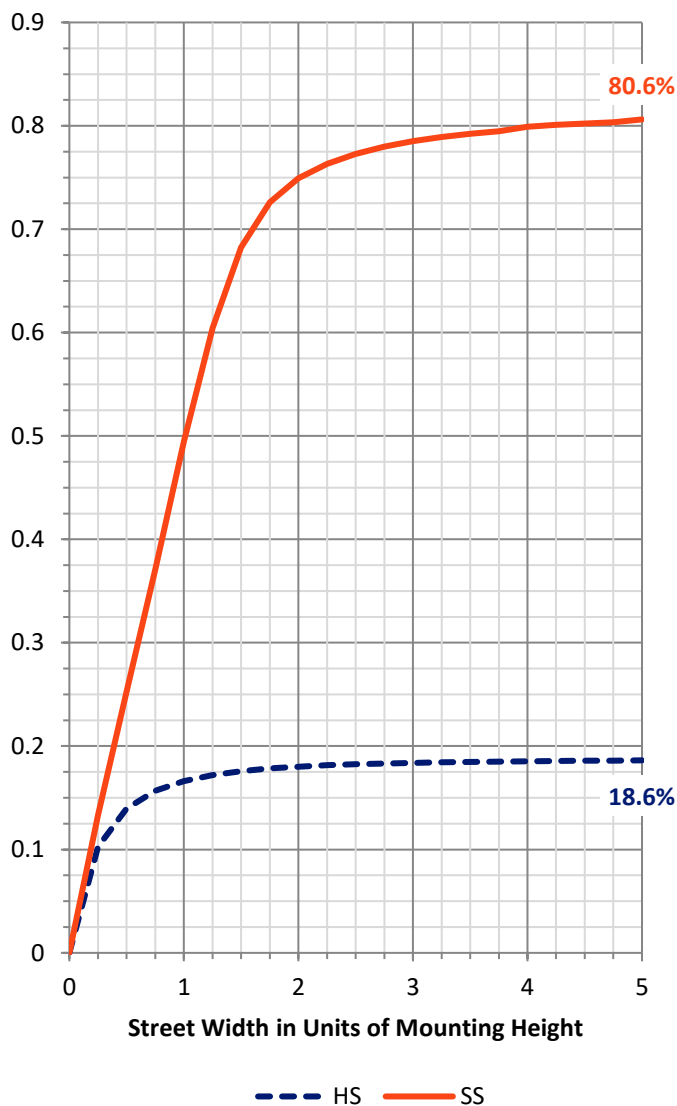
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	730.5	0.0	730.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	3154.0	0.0	3154.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	3884.6	0.0	3884.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.9	2.0
10°-20°	184.8	4.8
20°-30°	251.5	6.5
30°-40°	338.0	8.7
40°-50°	504.7	13.0
50°-60°	802.8	20.7
60°-70°	987.4	25.4
70°-80°	642.5	16.5
80°-90°	94.9	2.4
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°	3884.6	100.0
0°-180°	3884.6	100.0

**Coefficient of Utilization**

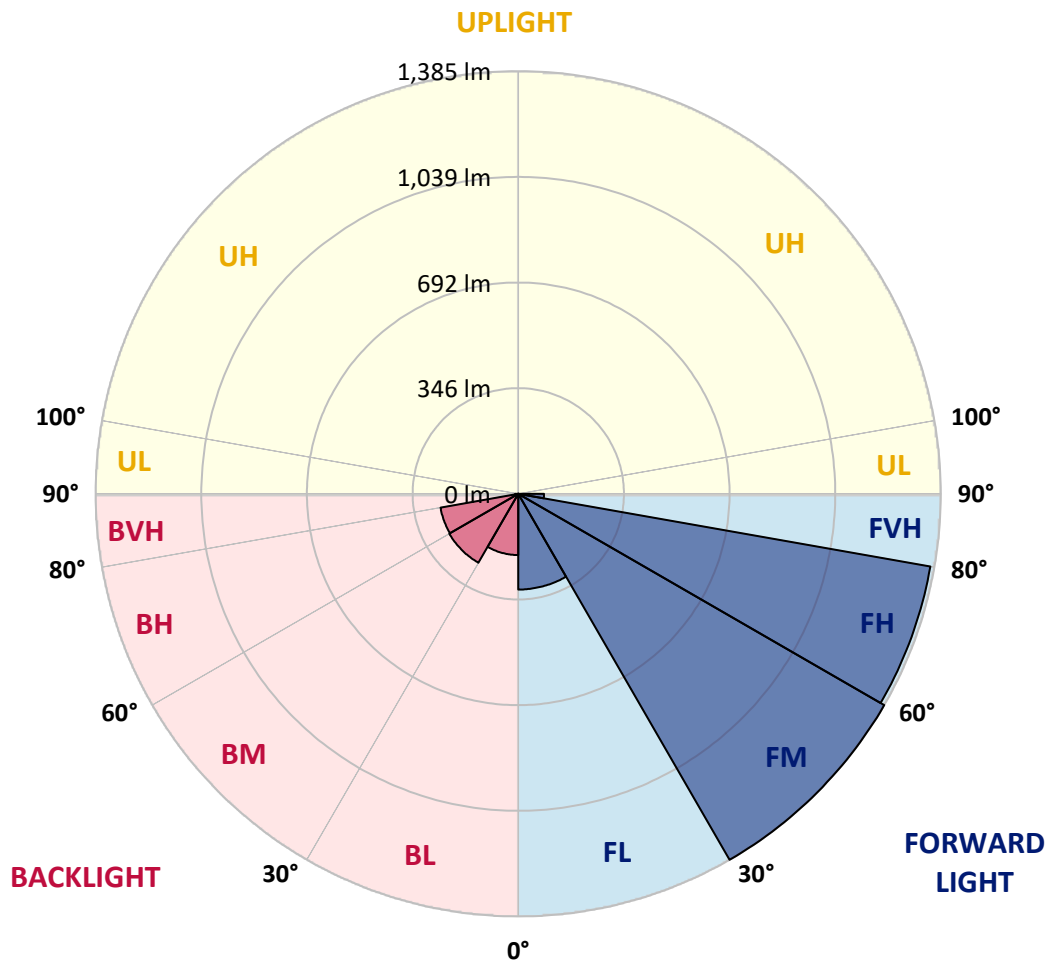


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.7	8.1			
FM (30°-60°)	1384.7	35.6			
FH (60°-80°)	1371.3	35.3			G1/1800
FVH (80°-90°)	84.4	2.2			G1/100
BL (0°-30°)	200.5	5.2	B1/500		
BM (30°-60°)	260.8	6.7	B1/1000		
BH (60°-80°)	258.6	6.7	B1/500		G1/500
BVH (80°-90°)	10.5	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1
2.5°	865.6	869.1	873.0	877.2	885.4	889.9	893.2	896.8	897.3	899.2	897.7
5°	801.7	805.8	811.6	819.8	832.1	851.3	871.0	887.2	889.1	898.1	900.7
7.5°	748.4	750.8	755.5	768.6	786.1	807.4	836.2	868.8	873.6	895.2	902.6
10°	704.9	707.3	712.9	726.5	743.7	770.4	802.0	845.0	848.9	885.9	903.1
12.5°	672.5	674.7	680.6	694.0	713.8	738.7	773.6	819.2	824.8	873.6	899.0
15°	647.7	651.9	656.7	667.8	688.6	712.7	746.5	795.5	800.0	860.7	896.2
17.5°	637.2	639.2	642.6	652.7	667.9	691.6	725.6	777.0	782.4	851.7	895.6
20°	637.6	639.6	640.2	645.8	656.7	677.2	710.7	762.4	768.8	843.7	896.6
22.5°	652.3	652.4	650.1	648.2	652.4	669.4	700.2	751.4	758.9	840.2	897.5
25°	674.8	678.7	675.2	666.2	658.3	666.4	696.1	745.4	752.5	835.3	896.4
27.5°	711.4	712.1	709.2	697.0	676.3	670.3	694.4	740.8	746.9	831.7	891.0
30°	760.4	758.5	756.0	742.4	709.9	685.2	698.0	736.8	743.0	826.3	884.6
32.5°	810.1	816.2	813.8	797.9	755.7	714.0	709.9	736.4	741.5	822.2	877.5
35°	862.9	865.6	876.8	868.7	825.4	760.7	732.1	743.0	747.1	822.4	872.5
37.5°	904.2	911.6	938.0	945.0	904.4	822.4	768.0	761.9	763.7	832.9	874.5
40°	954.0	967.0	1000.7	1029.8	1003.1	902.6	829.1	797.0	799.2	858.3	887.2
42.5°	1017.3	1026.4	1071.8	1111.1	1106.8	1008.7	903.1	854.5	855.5	908.9	922.7
45°	1091.3	1104.2	1155.2	1214.3	1224.5	1128.7	1010.0	941.3	940.7	987.4	988.9
47.5°	1186.0	1193.9	1244.5	1309.0	1349.9	1279.6	1139.7	1066.1	1059.2	1101.9	1089.6
50°	1273.1	1285.6	1323.8	1394.4	1496.1	1456.2	1310.3	1227.9	1211.8	1251.6	1230.9
52.5°	1309.7	1322.8	1355.0	1442.6	1621.6	1684.6	1526.9	1420.9	1394.0	1424.6	1417.0
55°	1246.2	1263.2	1293.3	1399.8	1676.6	1948.2	1819.1	1644.0	1624.4	1611.3	1613.4
57.5°	1075.6	1091.7	1132.4	1249.9	1610.9	2139.4	2236.2	1930.7	1888.8	1828.3	1838.7
60°	818.7	828.9	849.9	980.1	1415.7	2189.0	2709.9	2293.2	2266.5	2044.6	2051.9
62.5°	581.5	592.9	607.5	672.5	1036.4	2049.0	3080.8	2799.4	2704.1	2268.4	2261.4
65°	472.2	464.5	482.1	512.4	608.1	1588.1	3164.3	3501.9	3370.7	2563.4	2464.9
67.5°	388.3	380.1	397.5	451.5	462.6	921.8	2863.5	3958.0	3931.8	2884.1	2671.6
69°	343.8	339.4	354.7	416.3	444.0	654.6	2494.6	4021.5	4027.7	3073.3	2703.4
70°	309.7	311.5	326.3	398.4	435.6	539.8	2132.1	3933.9	3986.8	3167.6	2669.0
72.5°	228.0	231.7	252.3	330.0	427.6	458.0	1268.8	3436.2	3529.7	3173.3	2441.6
75°	159.4	157.7	175.9	248.4	404.0	453.9	745.2	2657.4	2763.4	2742.8	2051.6
77.5°	104.4	107.1	121.8	175.5	339.9	450.4	485.8	1885.4	1954.1	1834.3	1213.5
80°	73.6	73.3	81.5	119.8	252.1	432.9	397.8	1188.3	1170.9	720.9	359.9
82.5°	42.1	45.2	54.7	84.4	168.6	381.0	365.9	568.3	518.9	205.5	121.5
85°	23.5	24.6	32.5	51.0	98.6	286.9	319.5	258.6	244.0	85.9	52.3
87.5°	7.6	8.2	13.5	25.8	44.7	135.5	180.9	119.4	110.2	30.9	21.1
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°	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1
2.5°	898.4	901.0	894.1	887.3	881.4	873.0	865.5	859.2	854.9	854.3	852.1
5°	901.4	901.6	888.4	870.8	853.6	834.7	815.1	801.1	788.0	780.7	777.0
7.5°	903.5	901.6	877.9	849.3	816.2	781.8	747.3	719.8	698.5	690.1	693.3
10°	902.6	896.6	862.0	816.2	768.0	716.5	667.1	628.4	592.9	574.6	575.0
12.5°	897.9	888.0	838.3	778.9	708.2	639.3	563.6	511.3	470.3	446.0	438.4
15°	893.8	876.7	810.6	728.4	640.4	542.1	449.9	385.3	350.9	331.7	331.5
17.5°	889.5	865.6	780.3	674.8	562.5	436.1	339.3	290.0	273.8	275.8	272.6
20°	885.0	852.8	748.7	615.3	467.7	325.3	254.1	234.1	238.6	247.4	248.7
22.5°	879.9	839.0	714.6	549.7	367.9	244.8	206.0	203.1	214.7	228.5	230.4
25°	871.9	821.7	671.8	481.1	283.8	197.3	180.5	182.7	194.0	205.6	207.0
27.5°	860.7	800.5	628.6	395.4	213.2	169.3	165.0	167.8	173.4	180.5	182.2
30°	845.6	776.4	578.9	321.4	170.8	155.3	153.6	155.1	158.4	161.3	162.2
32.5°	830.6	753.1	528.7	246.1	152.3	146.1	144.3	144.3	144.3	144.7	145.0
35°	816.6	731.2	475.0	191.7	142.6	138.8	136.4	133.8	133.4	131.9	131.9
37.5°	808.9	711.2	417.7	160.5	135.5	132.7	129.5	125.2	122.9	123.0	122.6
40°	810.4	698.0	365.7	142.8	129.7	126.7	121.8	116.8	115.3	115.3	114.9
42.5°	827.4	693.7	315.8	133.6	124.1	120.7	114.5	109.9	109.1	108.8	109.2
45°	866.5	704.3	271.1	127.6	119.4	114.2	108.0	103.9	103.0	103.0	102.9
47.5°	942.8	738.5	239.0	123.7	116.0	109.2	102.9	98.7	97.2	96.8	96.8
50°	1061.6	812.7	215.1	120.3	111.7	104.8	98.1	93.4	91.0	90.7	90.6
52.5°	1226.6	928.5	205.9	117.7	106.9	100.0	92.7	88.2	85.2	84.5	84.1
55°	1419.6	1090.0	218.6	115.7	101.9	94.6	87.1	82.4	79.6	78.3	78.1
57.5°	1643.1	1284.0	266.8	113.1	97.5	88.8	81.5	76.8	73.8	72.2	71.8
60°	1843.8	1483.4	350.9	111.7	93.6	82.6	75.1	70.8	68.0	66.4	66.3
62.5°	2064.3	1673.7	451.4	115.7	91.8	76.6	69.0	65.2	62.8	61.3	61.3
65°	2299.9	1864.0	517.8	129.5	94.4	71.8	62.6	59.4	57.2	56.2	55.9
67.5°	2458.7	1929.8	426.6	143.7	100.9	66.7	56.3	53.7	52.5	51.4	51.4
69°	2441.4	1846.6	314.7	147.3	102.9	64.1	52.9	51.0	49.3	48.9	48.4
70°	2387.0	1751.7	263.7	145.0	101.3	61.7	50.8	48.4	46.9	46.5	46.3
72.5°	2126.0	1519.2	196.4	126.1	86.3	53.6	45.0	42.8	41.5	40.9	40.9
75°	1766.4	1241.7	153.4	100.2	67.5	45.2	38.5	36.8	35.7	35.2	35.1
77.5°	990.0	693.3	110.2	78.5	51.2	36.6	32.3	30.8	29.7	29.3	29.3
80°	275.8	198.1	64.8	51.8	34.8	27.8	25.6	24.6	23.0	22.0	22.6
82.5°	103.9	85.9	37.0	31.2	22.1	18.5	17.8	17.0	16.3	14.8	14.8
85°	50.5	41.7	23.6	16.6	12.3	9.7	9.3	8.8	8.4	7.3	7.6
87.5°	17.4	18.5	10.3	6.1	3.6	2.4	1.9	1.1	1.1	1.1	1.1
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)