

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: P648267

Luminaire Tested: **GALN-SA2B-835-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-835-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7369.6 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

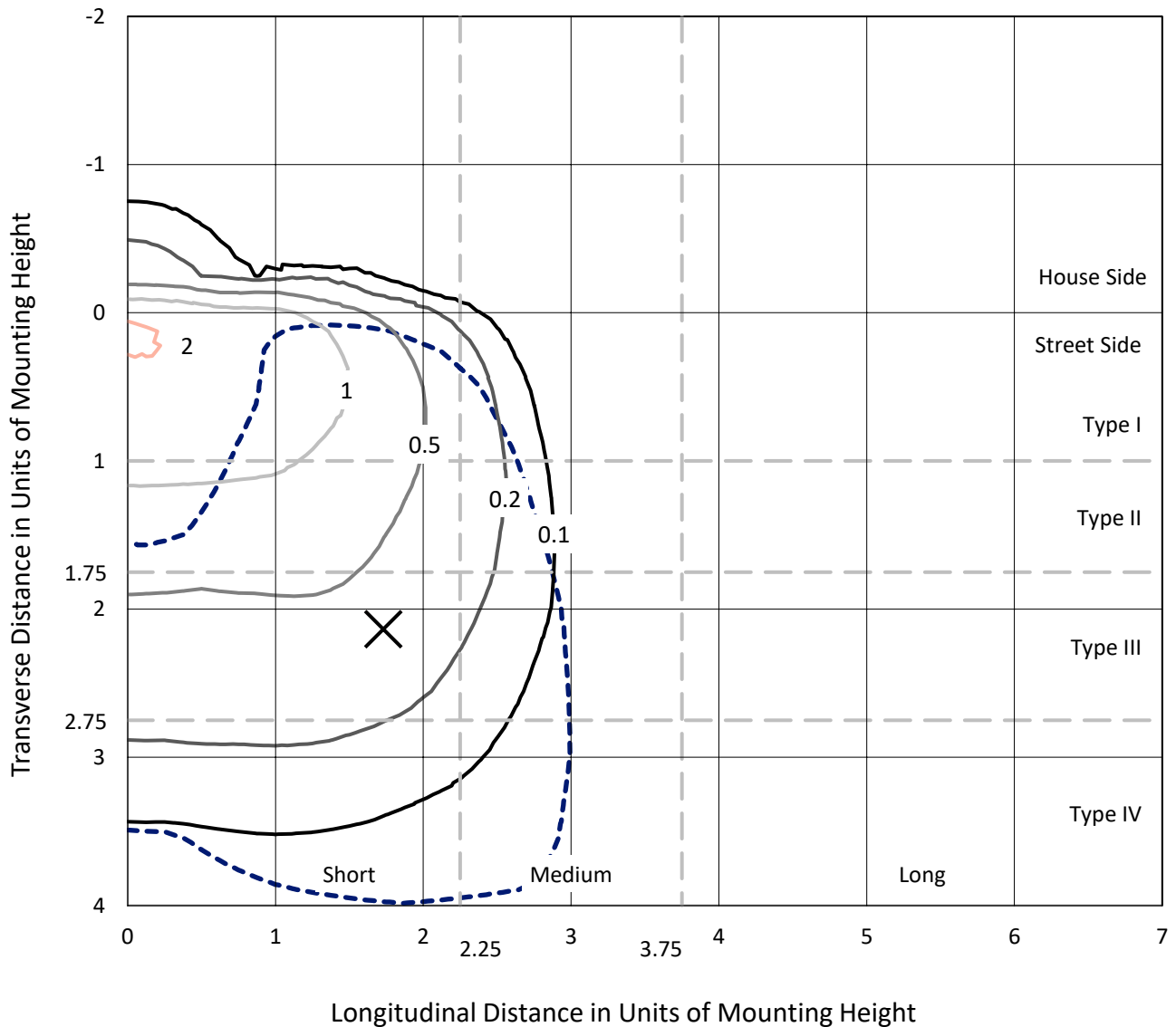
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

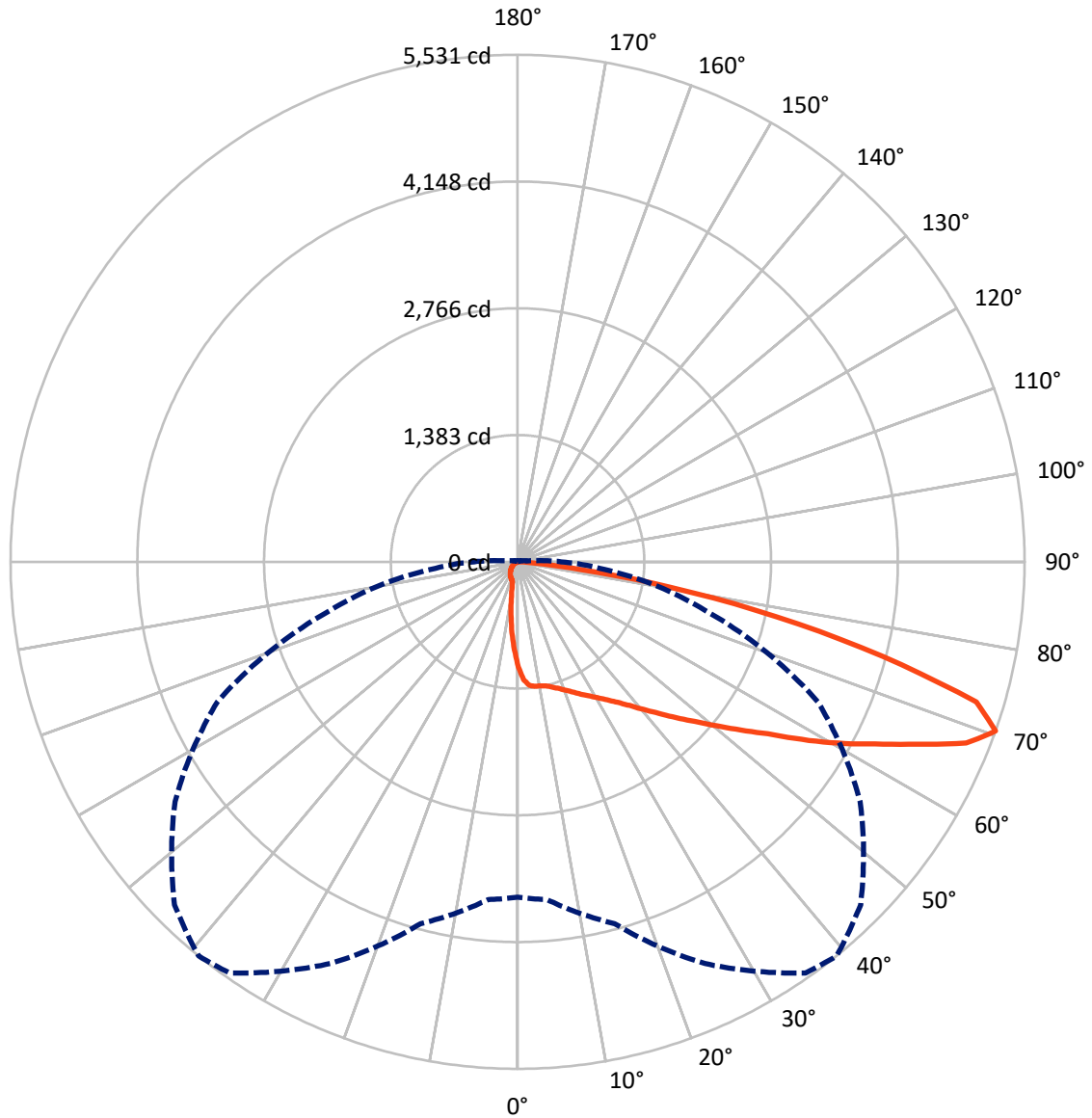
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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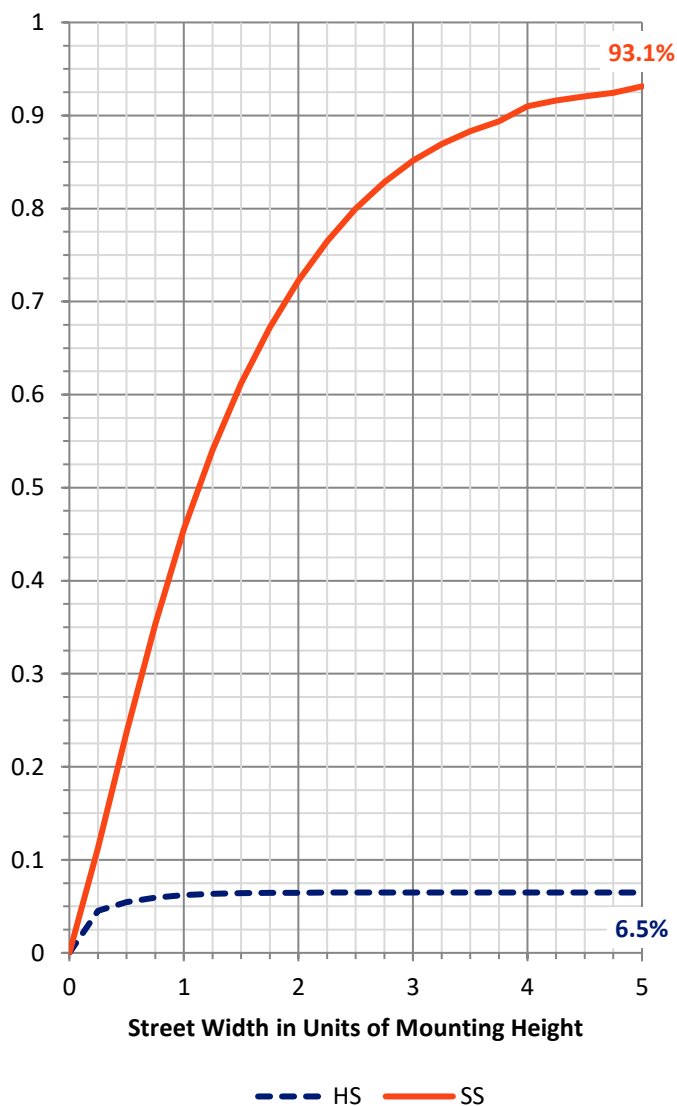
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	480.5	0.0	480.5
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	6889.1	0.0	6889.1
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	7369.6	0.0	7369.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	1.3
10°-20°	254.9	3.5
20°-30°	427.0	5.8
30°-40°	662.2	9.0
40°-50°	1049.4	14.2
50°-60°	1538.3	20.9
60°-70°	1971.7	26.8
70°-80°	1239.0	16.8
80°-90°	129.1	1.8
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°	7369.6	100.0
0°-180°	7369.6	100.0

**Coefficient of Utilization**

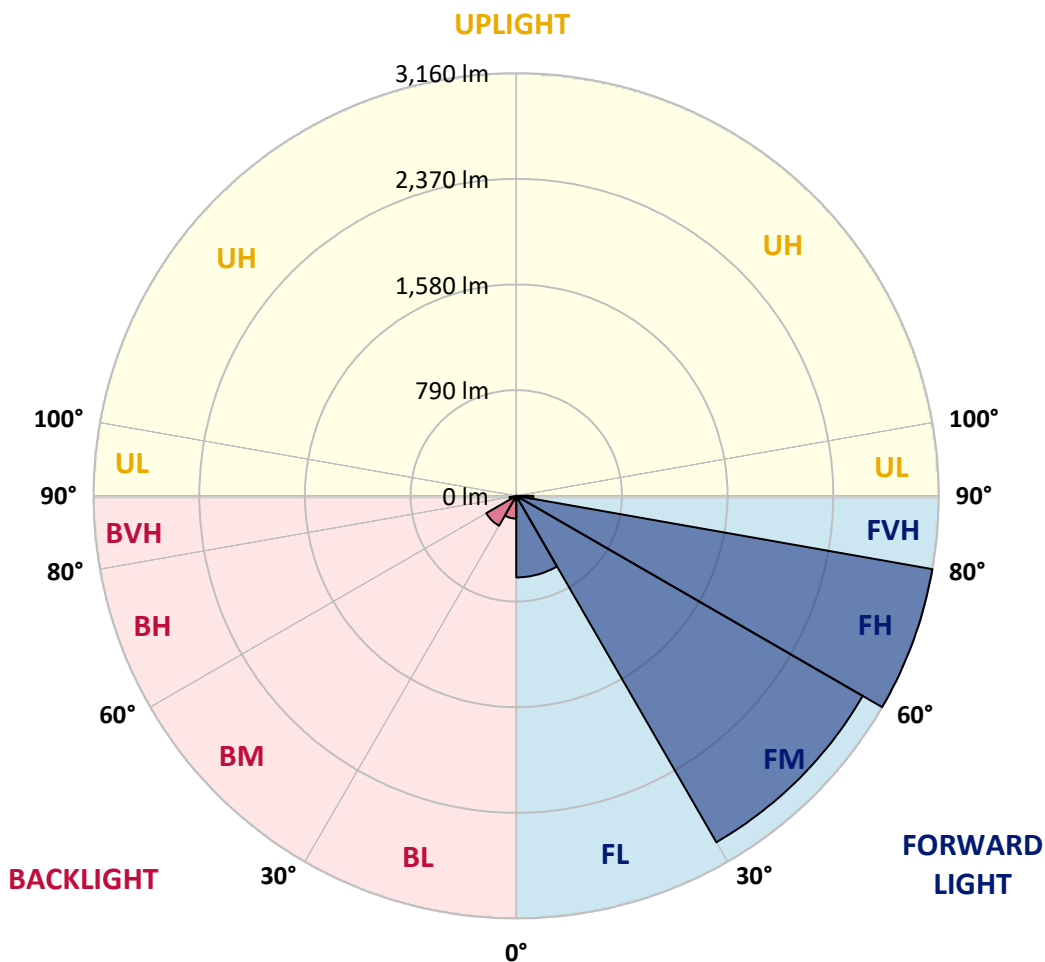


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	609.8	8.3			
FM (30°-60°)	2991.3	40.6			
FH (60°-80°)	3159.8	42.9			G2/5000
FVH (80°-90°)	128.1	1.7			G2/225
BL (0°-30°)	170.2	2.3	B1/500		
BM (30°-60°)	258.6	3.5	B1/1000		
BH (60°-80°)	50.8	0.7	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1149.9	1149.9	1149.9	1149.9	1149.9	1149.9	1149.9	1149.9	1149.9	1149.9	1149.9
2.5°	1328.7	1324.2	1318.3	1311.4	1291.6	1288.1	1276.2	1250.9	1220.7	1196.0	1161.8
5°	1391.5	1394.1	1389.6	1377.2	1362.9	1354.4	1339.6	1300.5	1261.3	1211.3	1155.4
7.5°	1406.0	1410.9	1405.4	1393.6	1379.7	1370.8	1358.9	1325.2	1279.7	1222.7	1145.9
10°	1404.5	1410.4	1406.9	1396.0	1384.7	1376.2	1363.4	1336.6	1299.9	1240.0	1148.9
12.5°	1402.0	1409.9	1409.4	1404.0	1394.5	1388.1	1380.2	1356.4	1322.3	1265.3	1165.3
15°	1395.1	1404.9	1413.9	1418.3	1418.8	1418.8	1408.9	1383.6	1351.0	1298.4	1186.6
17.5°	1398.0	1409.4	1431.7	1444.6	1453.5	1452.5	1442.1	1414.9	1378.7	1332.7	1208.9
20°	1416.4	1431.7	1462.9	1488.6	1497.6	1494.6	1480.7	1449.0	1407.9	1361.9	1230.6
22.5°	1461.4	1475.3	1514.4	1544.6	1551.0	1543.1	1523.3	1480.3	1443.1	1393.6	1256.9
25°	1528.7	1545.1	1581.3	1604.1	1604.1	1599.6	1571.9	1521.3	1482.7	1437.7	1291.0
27.5°	1610.5	1624.3	1660.0	1680.3	1668.4	1655.5	1627.8	1566.9	1529.7	1493.1	1332.1
30°	1693.2	1702.1	1739.7	1748.7	1736.2	1719.9	1690.2	1629.3	1596.6	1568.3	1391.5
32.5°	1771.4	1790.7	1822.0	1819.9	1803.1	1795.2	1767.9	1703.1	1684.8	1681.8	1474.8
35°	1849.7	1864.5	1892.3	1899.2	1884.3	1882.9	1863.1	1815.0	1815.5	1834.8	1604.5
37.5°	1917.0	1930.4	1963.1	1978.4	1981.4	1988.8	1980.9	1949.2	1994.3	2047.2	1776.4
40°	1973.5	1992.3	2033.9	2060.6	2091.3	2118.6	2120.1	2127.0	2217.6	2308.8	2000.7
42.5°	2017.6	2043.8	2104.2	2153.7	2224.0	2258.7	2286.4	2324.6	2477.1	2613.3	2265.1
45°	2075.0	2105.2	2180.5	2258.3	2368.2	2425.1	2463.7	2565.7	2782.2	2967.9	2536.5
47.5°	2170.1	2185.9	2262.7	2376.1	2520.7	2601.9	2677.2	2831.7	3109.5	3275.9	2762.3
50°	2292.4	2302.8	2360.7	2518.2	2705.4	2812.4	2949.6	3131.3	3449.3	3531.4	2890.1
52.5°	2427.6	2431.1	2474.7	2674.7	2912.4	3047.1	3200.7	3425.0	3726.1	3713.7	2974.8
55°	2584.6	2579.6	2616.8	2844.6	3157.5	3311.5	3490.3	3725.6	3966.3	3843.0	3023.3
57.5°	2764.3	2751.0	2787.1	3069.9	3471.5	3655.7	3837.5	3985.1	4152.5	3951.4	3046.7
60°	2952.5	2925.8	2968.9	3323.0	3841.5	4016.2	4167.3	4206.9	4348.5	4037.5	3006.5
62.5°	3102.6	3103.1	3183.3	3592.3	4221.8	4374.8	4455.0	4490.7	4517.4	4018.7	2795.5
65°	3336.8	3344.7	3473.0	3966.3	4662.1	4794.8	4849.7	4733.9	4524.9	3785.0	2478.6
67.5°	3578.5	3603.8	3838.5	4481.3	5170.6	5277.6	5206.8	4780.9	4322.8	3251.6	1879.4
70°	3657.2	3698.8	4085.6	4835.9	5475.7	5531.2	5291.4	4561.5	3613.6	2174.0	945.9
72.5°	3351.2	3418.5	3943.5	4706.6	5281.1	5233.0	4734.3	3825.6	2297.3	825.5	288.7
75°	2363.2	2392.9	3277.4	3904.4	4247.5	4111.4	3601.3	2466.2	944.9	231.8	99.0
77.5°	1220.2	1205.9	1949.2	2590.5	3029.3	2888.2	2358.2	1276.7	358.1	96.5	61.4
80°	630.9	641.3	843.4	1357.4	1849.1	1701.6	1257.3	591.8	190.7	53.5	47.1
82.5°	353.6	331.8	484.8	592.8	864.7	678.0	482.3	419.0	83.2	32.2	44.6
85°	64.4	67.3	265.9	320.4	300.1	190.7	155.5	279.8	24.3	17.9	31.2
87.5°	1.0	1.0	51.5	92.1	58.4	26.8	49.0	40.1	4.9	7.0	5.5
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°	1149.9	1149.9	1149.9	1149.9	1149.9	1149.9	1149.9	1149.9	1149.9	1149.9	1149.9
2.5°	1144.4	1125.6	1090.5	1055.8	1011.7	975.6	951.3	926.1	900.3	902.3	908.2
5°	1124.6	1092.0	1022.7	949.3	879.0	815.7	753.2	697.3	674.5	653.7	654.7
7.5°	1104.8	1058.8	957.3	842.4	735.9	628.0	549.7	485.3	451.2	425.4	418.0
10°	1096.0	1035.0	897.3	739.4	588.3	470.4	370.0	317.4	276.9	263.9	267.4
12.5°	1099.9	1023.1	843.4	646.3	466.5	327.8	257.5	230.8	221.8	220.3	219.4
15°	1107.3	1014.7	790.4	543.2	342.7	243.7	216.4	211.5	210.5	209.5	210.0
17.5°	1117.3	1007.3	733.9	446.7	262.9	213.0	205.0	202.6	202.0	202.0	202.0
20°	1127.1	998.9	671.0	360.5	219.4	201.1	196.1	194.7	194.1	194.1	193.6
22.5°	1138.5	991.4	607.1	283.3	202.0	192.6	188.2	187.2	186.7	186.2	186.2
25°	1154.8	982.0	539.3	231.8	191.1	184.7	180.2	179.3	178.8	176.8	177.3
27.5°	1176.6	975.1	469.5	200.1	181.3	174.8	171.9	170.4	169.4	167.9	168.3
30°	1206.4	969.1	395.2	182.8	169.8	164.4	161.5	160.4	159.5	158.0	158.0
32.5°	1257.9	971.6	317.0	168.9	159.5	153.0	150.0	149.1	148.1	146.6	146.6
35°	1335.1	986.0	253.5	157.0	147.0	140.6	137.7	137.7	136.2	134.2	133.7
37.5°	1461.4	1022.7	203.5	145.6	135.2	129.3	125.7	124.8	123.3	120.3	119.9
40°	1610.5	1079.6	171.3	134.2	124.3	118.4	115.4	112.4	108.4	105.5	105.0
42.5°	1797.7	1138.0	148.5	122.9	113.9	108.4	105.0	100.1	94.1	90.1	89.7
45°	1992.8	1191.5	133.2	112.4	104.0	99.5	95.6	87.6	80.3	75.2	74.8
47.5°	2138.4	1201.4	120.8	102.5	95.6	91.1	85.7	75.8	65.9	61.4	59.9
50°	2207.2	1153.4	108.0	92.6	87.1	82.2	75.2	63.9	53.0	47.5	46.6
52.5°	2231.5	1070.2	97.6	83.7	78.8	72.8	64.4	51.5	41.6	36.2	35.6
55°	2221.6	965.2	88.2	75.2	68.8	61.9	53.5	41.1	30.7	26.2	25.3
57.5°	2169.6	831.5	78.8	66.9	59.0	52.0	42.6	30.7	20.8	16.8	16.4
60°	2029.5	649.3	69.3	57.5	50.0	42.6	33.7	21.8	12.8	9.4	9.4
62.5°	1792.7	481.9	60.4	48.0	42.1	34.1	23.8	13.9	7.0	4.9	4.5
65°	1498.0	355.6	50.5	40.6	35.2	26.8	16.8	8.5	3.4	1.5	1.0
67.5°	1045.4	219.4	42.1	33.2	28.7	19.3	10.4	3.4	1.5	0.0	0.0
70°	474.9	104.5	32.2	25.3	21.8	13.9	5.5	2.0	1.0	0.0	0.0
72.5°	147.6	55.0	22.8	18.3	14.9	8.9	3.0	1.5	1.0	0.0	0.0
75°	68.4	35.2	14.3	9.9	8.5	4.5	2.0	1.0	0.5	0.0	0.0
77.5°	51.0	27.2	8.5	5.5	4.5	3.0	1.5	1.0	0.5	0.0	0.0
80°	44.6	13.9	4.9	3.4	2.5	2.0	1.0	0.5	0.0	0.0	0.0
82.5°	40.1	7.0	3.0	2.0	1.5	1.0	0.5	0.5	0.0	0.0	0.0
85°	21.8	4.0	2.0	1.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	4.0	2.0	1.5	1.0	1.0	0.5	0.5	0.5	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)