

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: P647768

Luminaire Tested: **GALN-SA2A-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647768  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-835-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4211 lumens  
Efficiency: N/A  
Efficacy: 66.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

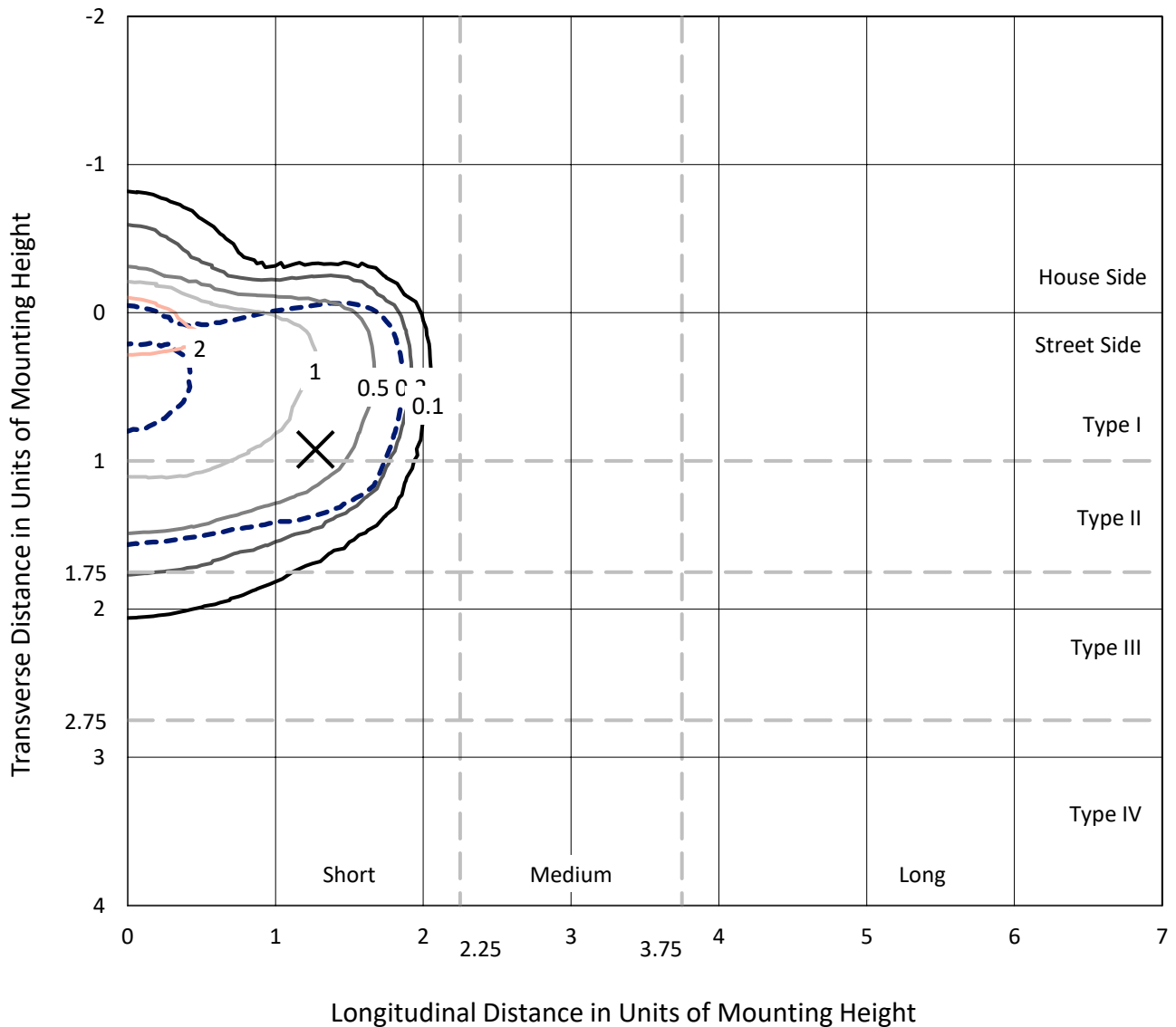
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647768  
 CATALOG NUMBER: GALN-SA2A-835-U-SL3-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

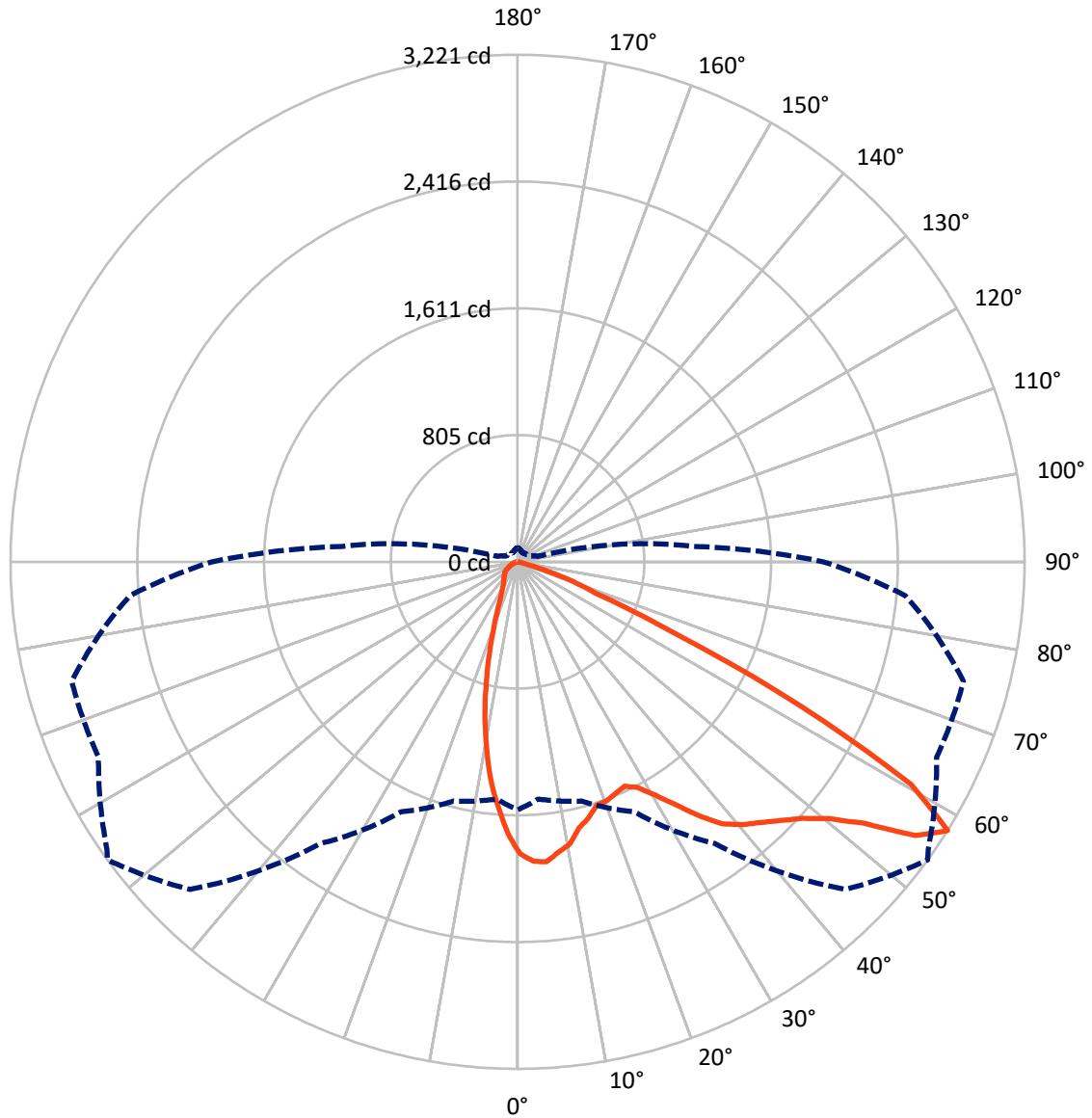
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - N/A

REPORT NUMBER: P647768  
CATALOG NUMBER: GALN-SA2A-835-U-SL3-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P647768  
 CATALOG NUMBER: GALN-SA2A-835-U-SL3-GRSBK

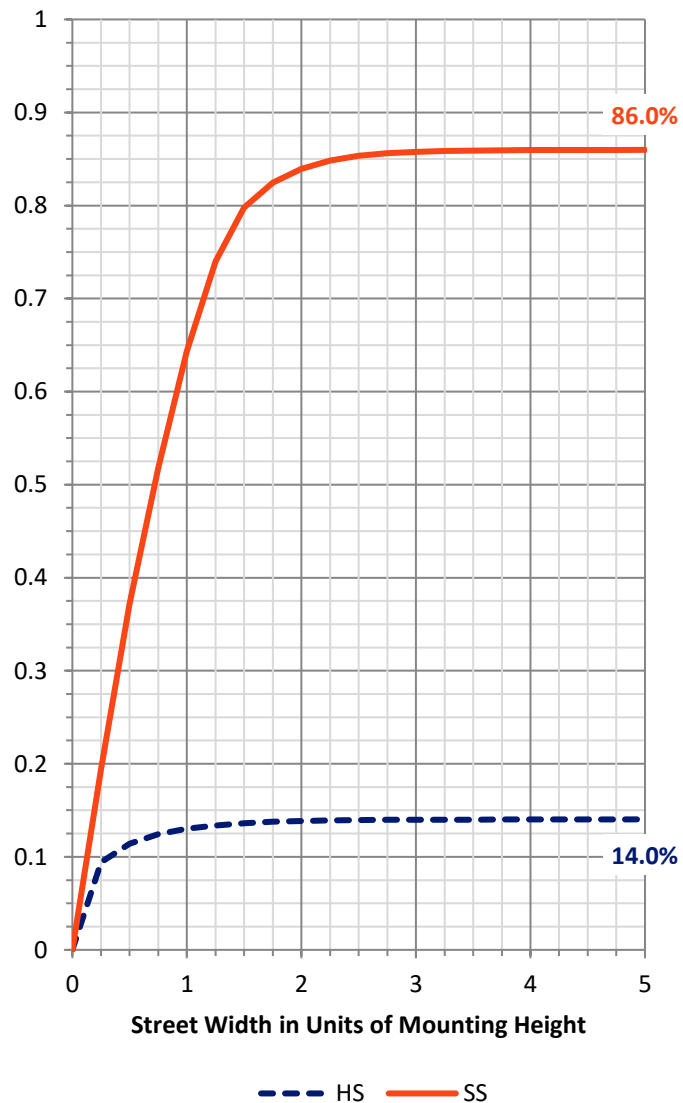
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	595.1	0.0	595.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	3615.9	0.0	3615.9
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	4211.0	0.0	4211.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.2	3.7
10°-20°	331.4	7.9
20°-30°	439.2	10.4
30°-40°	638.3	15.2
40°-50°	946.5	22.5
50°-60°	1183.5	28.1
60°-70°	466.8	11.1
70°-80°	46.5	1.1
80°-90°	3.6	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°	4211.0	100.0
0°-180°	4211.0	100.0

**Coefficient of Utilization**

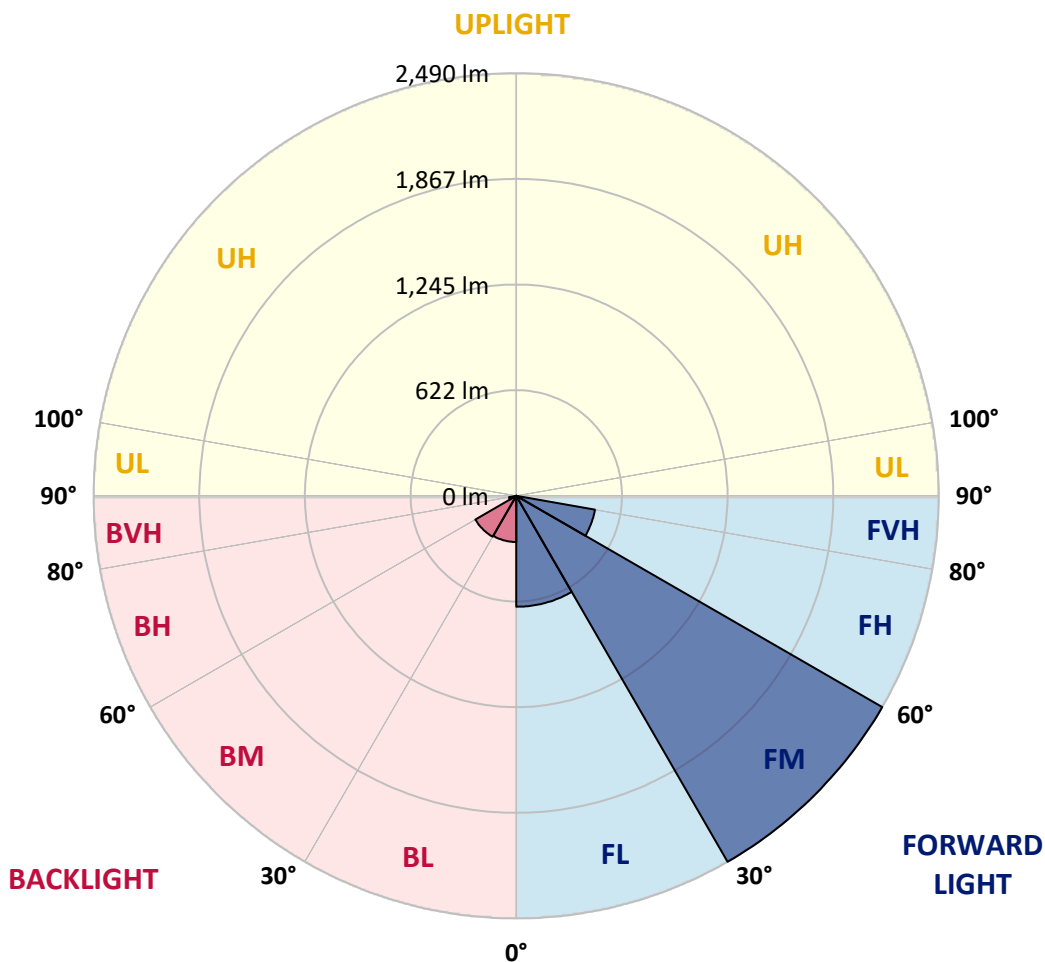


REPORT NUMBER: P647768  
 CATALOG NUMBER: GALN-SA2A-835-U-SL3-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.7	15.5			
FM (30°-60°)	2489.9	59.1			
FH (60°-80°)	470.6	11.2			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	272.2	6.5	B1/500		
BM (30°-60°)	278.3	6.6	B1/1000		
BH (60°-80°)	42.7	1.0	B0/110		G0/110
BVH (80°-90°)	2.0	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-G0**  
 Type II Short





REPORT NUMBER: P647768

CATALOG NUMBER: GALN-SA2A-835-U-SL3-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0
2.5°	1963.1	1942.7	1944.3	1937.2	1927.8	1934.9	1904.3	1911.4	1910.6	1869.1	1841.7
5°	1913.7	1935.7	1912.9	1931.7	1913.7	1933.3	1914.5	1900.4	1877.7	1847.2	1796.3
7.5°	1829.9	1808.8	1815.1	1838.6	1842.5	1886.3	1862.8	1880.8	1871.4	1811.2	1741.5
10°	1661.6	1656.9	1688.2	1719.5	1757.9	1804.9	1822.9	1812.7	1805.7	1783.0	1689.8
12.5°	1532.4	1545.7	1544.9	1596.6	1661.6	1688.2	1735.2	1733.6	1772.8	1730.5	1641.2
15°	1409.5	1416.5	1449.4	1481.5	1553.6	1629.5	1687.4	1695.3	1742.3	1712.5	1603.7
17.5°	1334.3	1324.1	1350.0	1388.3	1461.9	1561.4	1625.6	1644.4	1708.6	1702.3	1560.6
20°	1259.9	1259.9	1281.1	1326.5	1393.8	1505.8	1620.1	1614.6	1708.6	1690.6	1514.4
22.5°	1234.9	1247.4	1252.9	1287.3	1367.2	1463.5	1596.6	1606.8	1721.9	1685.1	1494.0
25°	1269.3	1252.9	1254.4	1281.8	1357.0	1443.1	1579.4	1602.1	1746.2	1712.5	1477.6
27.5°	1274.8	1291.2	1295.9	1314.7	1364.8	1449.4	1622.5	1668.7	1806.5	1776.7	1482.3
30°	1322.6	1339.0	1338.2	1370.3	1404.8	1500.3	1718.8	1728.2	1931.0	1857.4	1511.3
32.5°	1380.5	1397.7	1403.2	1440.8	1468.2	1593.5	1836.2	1860.5	2050.8	1984.2	1587.2
35°	1452.5	1446.3	1471.3	1508.9	1567.6	1729.7	1979.5	2020.2	2180.0	2148.6	1665.5
37.5°	1542.6	1534.8	1559.0	1620.1	1700.0	1891.0	2111.8	2138.5	2273.9	2301.3	1810.4
40°	1606.0	1609.1	1682.7	1765.0	1849.5	2044.5	2195.6	2221.4	2339.7	2443.8	1920.0
42.5°	1711.7	1731.3	1819.8	1920.0	2008.5	2159.6	2263.7	2288.8	2370.2	2558.1	2068.0
45°	1865.2	1856.6	1954.4	2066.4	2164.3	2279.4	2344.4	2335.8	2388.2	2671.7	2161.2
47.5°	2062.5	2064.1	2129.1	2224.6	2326.4	2383.5	2434.4	2403.9	2425.8	2791.5	2285.7
50°	2197.2	2208.9	2261.4	2359.3	2410.2	2497.8	2562.8	2544.0	2537.0	2863.5	2364.0
52.5°	2231.6	2266.9	2295.1	2417.2	2536.2	2674.8	2757.8	2797.7	2672.5	2887.8	2463.4
55°	1971.7	2003.0	2102.4	2270.0	2584.0	2955.1	3069.4	3070.2	2849.4	2995.8	2533.1
57.5°	1576.3	1512.8	1573.9	1751.6	2184.6	2943.4	3221.3	3184.5	2937.9	2932.4	2472.8
60°	1089.9	1074.3	1078.2	1148.7	1512.1	2341.2	2870.6	2918.3	2705.3	2541.7	1957.6
62.5°	863.6	850.3	833.1	825.3	938.8	1458.8	2024.9	2092.3	1891.8	1648.3	1160.5
65°	676.5	668.7	671.0	702.4	701.6	827.6	1107.2	1079.8	864.4	638.9	364.9
67.5°	456.5	468.2	477.6	572.4	620.9	576.3	534.8	519.1	281.1	118.2	80.6
70°	256.8	258.4	268.6	357.8	471.4	447.1	368.8	368.8	140.2	43.1	46.2
72.5°	140.2	135.5	126.1	154.3	209.8	213.0	164.4	143.3	41.5	28.2	25.8
75°	68.1	67.3	57.9	47.8	45.4	37.6	29.0	26.6	18.8	18.0	15.7
77.5°	14.1	13.3	7.0	7.0	7.8	8.6	11.0	11.0	13.3	13.3	11.0
80°	0.0	0.0	0.8	3.1	5.5	7.8	9.4	9.4	11.0	11.0	8.6
82.5°	0.0	0.0	0.8	2.3	4.7	7.0	8.6	9.4	11.0	11.7	9.4
85°	0.0	0.0	0.0	1.6	3.9	5.5	4.7	4.7	3.9	3.1	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P647768

CATALOG NUMBER: GALN-SA2A-835-U-SL3-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0
2.5°	1827.6	1826.0	1790.0	1769.7	1732.9	1700.8	1674.9	1656.1	1656.1	1644.4	1633.4
5°	1775.9	1762.6	1685.9	1636.5	1566.9	1515.2	1479.9	1452.5	1409.5	1421.2	1375.0
7.5°	1711.7	1678.0	1576.3	1501.1	1404.8	1331.2	1256.0	1189.5	1125.2	1096.2	1111.9
10°	1642.8	1584.1	1447.1	1328.0	1208.2	1073.5	985.8	879.3	813.5	809.6	792.4
12.5°	1570.0	1503.4	1336.7	1172.2	1014.8	852.7	718.8	619.4	574.7	525.4	534.8
15°	1515.2	1416.5	1213.7	1015.6	806.5	642.8	508.2	431.4	389.2	377.4	373.5
17.5°	1455.7	1350.0	1088.4	848.8	632.7	462.8	365.7	328.9	312.4	312.4	310.1
20°	1393.8	1274.8	963.9	693.7	474.5	345.3	292.8	281.1	280.3	279.5	279.5
22.5°	1353.1	1188.7	851.1	551.2	357.8	276.4	254.5	249.8	252.9	262.3	262.3
25°	1310.0	1105.6	726.6	425.2	277.2	237.2	224.7	227.9	235.7	244.3	241.2
27.5°	1266.2	1051.6	609.2	333.6	227.1	207.5	202.8	209.8	218.5	226.3	223.9
30°	1256.0	993.6	498.0	252.9	195.0	180.9	184.0	190.3	198.9	202.0	205.1
32.5°	1271.7	948.2	407.9	207.5	169.9	166.0	166.0	169.1	174.6	181.7	179.3
35°	1316.3	922.4	322.6	180.1	155.8	151.9	151.1	154.3	157.4	159.7	157.4
37.5°	1384.4	902.0	263.9	159.7	146.4	140.2	138.6	137.8	140.9	141.7	143.3
40°	1471.3	913.0	223.9	147.2	137.0	130.0	125.3	125.3	125.3	127.6	128.4
42.5°	1565.3	927.9	193.4	140.2	128.4	119.8	115.1	113.5	115.1	118.2	117.4
45°	1664.0	956.8	173.8	129.2	120.6	109.6	103.4	101.8	105.7	112.0	111.2
47.5°	1756.3	998.3	158.9	122.1	112.8	102.6	94.7	93.2	100.2	108.8	109.6
50°	1848.7	1070.4	153.5	116.7	107.3	95.5	88.5	86.9	94.7	105.7	108.1
52.5°	1955.2	1148.0	149.6	109.6	101.0	90.0	82.2	80.6	89.3	103.4	104.1
55°	2024.9	1213.7	146.4	97.1	89.3	81.4	75.2	74.4	83.8	96.3	99.4
57.5°	1943.5	1122.0	135.5	84.6	76.0	72.0	66.6	66.6	74.4	86.1	88.5
60°	1473.7	738.4	96.3	68.1	64.2	61.9	59.5	59.5	65.8	74.4	75.2
62.5°	862.9	397.8	61.9	54.8	54.8	52.5	48.5	48.5	54.8	59.5	60.3
65°	256.0	127.6	50.1	47.0	46.2	42.3	38.4	37.6	42.3	44.6	43.8
67.5°	73.6	58.7	41.5	39.2	38.4	32.1	29.8	29.0	29.8	28.2	27.4
70°	43.8	39.9	32.1	32.9	29.0	23.5	21.1	20.4	18.8	16.4	14.9
72.5°	24.3	24.3	23.5	25.1	20.4	15.7	13.3	11.0	8.6	7.0	6.3
75°	14.9	15.7	16.4	17.2	13.3	10.2	8.6	5.5	3.1	1.6	1.6
77.5°	10.2	11.0	11.7	12.5	11.0	9.4	7.0	3.9	0.8	0.0	0.0
80°	7.8	8.6	10.2	11.0	11.7	12.5	9.4	3.9	0.8	0.0	0.0
82.5°	8.6	9.4	11.7	11.0	11.0	11.0	8.6	3.9	0.8	0.0	0.0
85°	1.6	2.3	3.9	3.9	5.5	7.0	5.5	1.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)