

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: P647989

Luminaire Tested: **GALN-SA6A-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647989  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-835-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17963.6 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

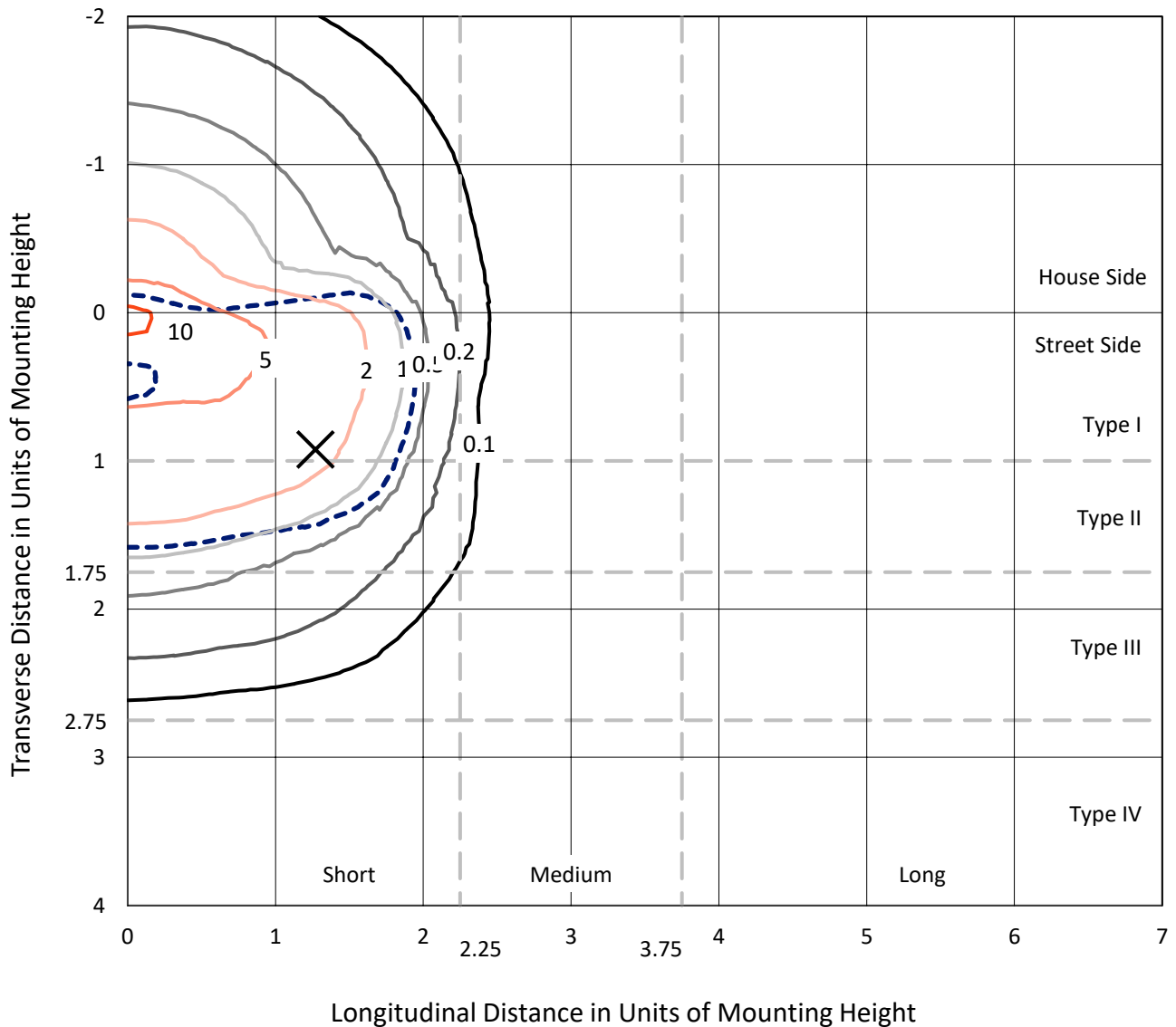
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

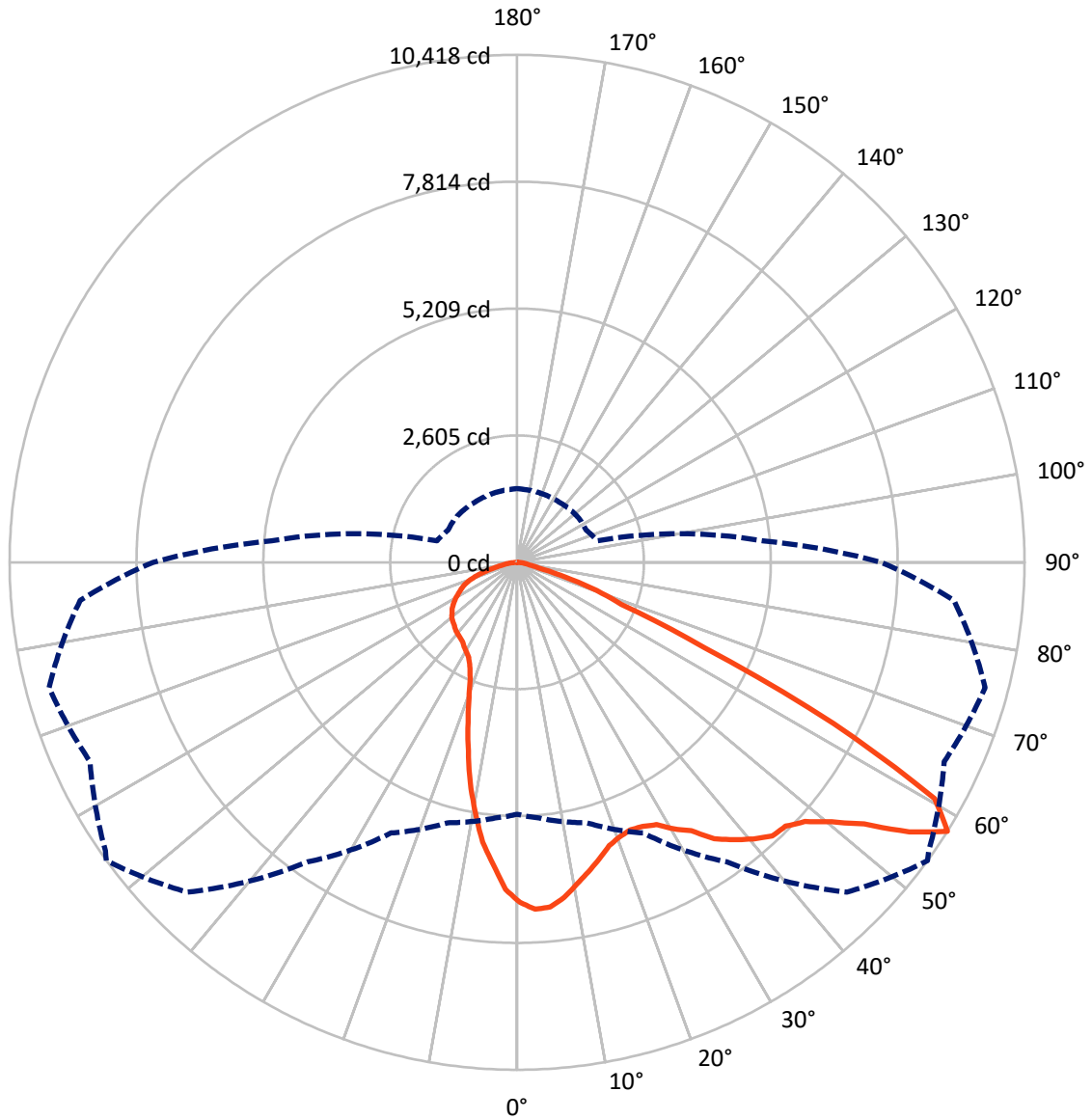
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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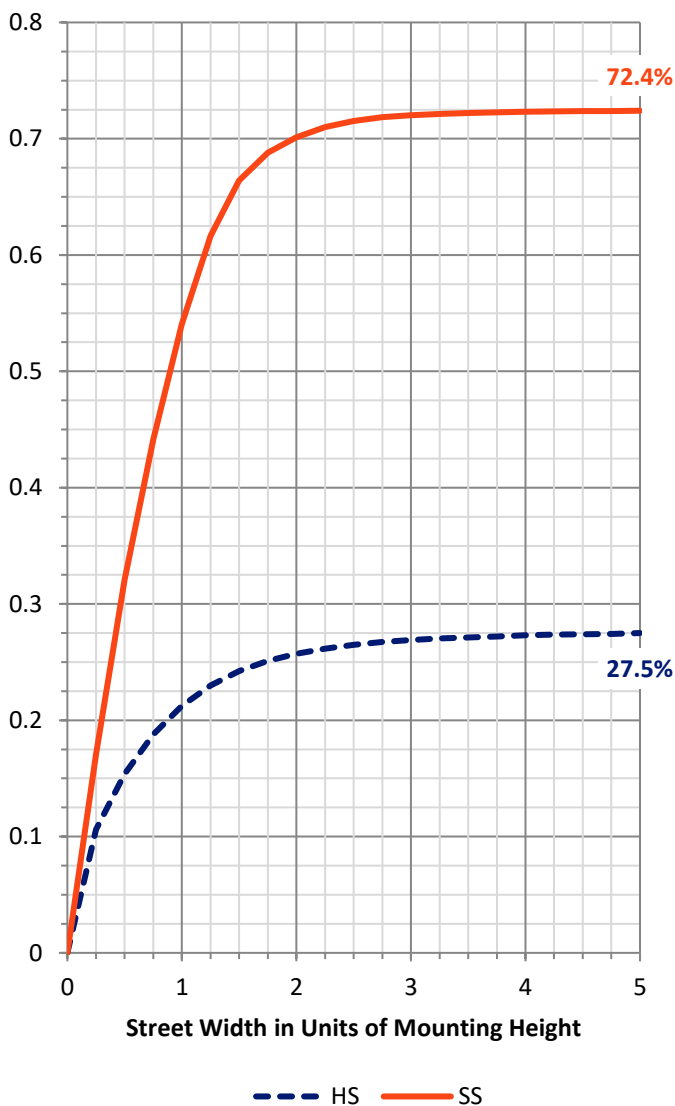
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4969.7	0.0	4969.7
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	12993.9	0.0	12993.9
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	17963.6	0.0	17963.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	602.2	3.4
10°-20°	1394.2	7.8
20°-30°	1958.9	10.9
30°-40°	2738.5	15.2
40°-50°	3707.4	20.6
50°-60°	4515.8	25.1
60°-70°	2352.0	13.1
70°-80°	602.7	3.4
80°-90°	91.9	0.5
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°	17963.6	100.0
0°-180°	17963.6	100.0

**Coefficient of Utilization**



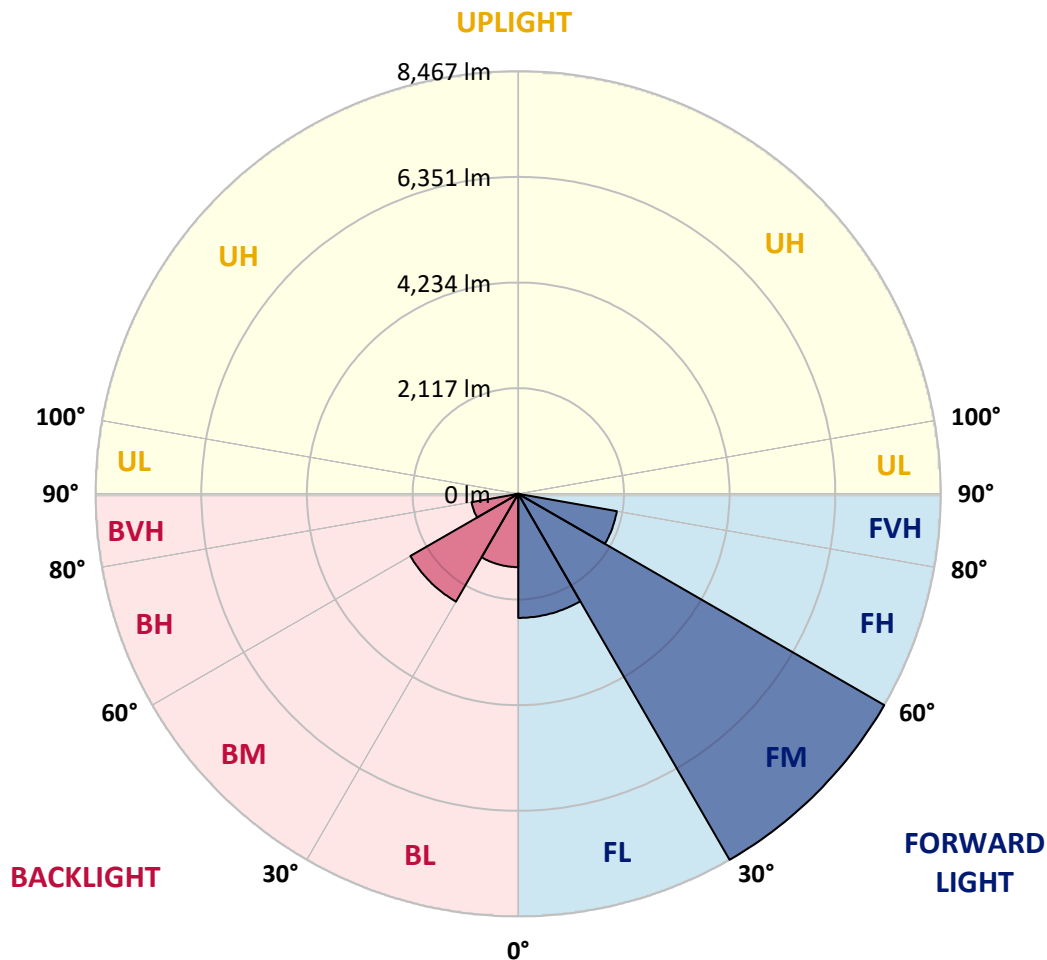
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 CATALOG NUMBER: GALN-SA6A-835-U-SL3-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2486.4	13.8			
FM (30°-60°)	8467.5	47.1			
FH (60°-80°)	2005.2	11.2			G2/5000
FVH (80°-90°)	34.7	0.2			G1/100
BL (0°-30°)	1468.8	8.2	B3/2500		
BM (30°-60°)	2494.3	13.9	B2/2500		
BH (60°-80°)	949.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	57.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6982.2	6982.2	6982.2	6982.2	6982.2	6982.2	6982.2	6982.2	6982.2	6982.2	6982.2
2.5°	7180.8	7153.1	7157.7	7194.7	7148.5	7130.0	7130.0	7040.0	7046.9	6984.5	6968.4
5°	7014.6	6949.9	6993.8	7049.2	7058.4	7076.9	7106.9	7083.8	7019.2	6952.3	6843.7
7.5°	6580.5	6638.2	6654.4	6693.6	6776.7	6853.0	6947.6	6883.0	6880.6	6813.7	6749.1
10°	6199.5	6164.9	6252.6	6310.4	6448.9	6575.9	6721.4	6714.4	6749.1	6672.8	6562.0
12.5°	5820.8	5793.1	5834.7	5966.3	6160.3	6345.0	6518.2	6453.5	6638.2	6624.3	6386.5
15°	5419.1	5439.9	5499.9	5622.3	5876.3	6097.9	6317.2	6319.6	6483.5	6538.9	6220.3
17.5°	5137.4	5114.3	5190.5	5372.9	5599.2	5864.7	6114.1	6164.9	6416.5	6448.9	6169.5
20°	4927.3	4959.6	5058.9	5151.3	5412.2	5733.1	6014.8	6033.2	6402.7	6490.4	6088.7
22.5°	4876.5	4858.0	4890.3	5040.4	5255.2	5603.8	5961.7	6031.0	6400.4	6476.6	5936.3
25°	4823.4	4883.4	4881.1	5031.2	5188.2	5499.9	6005.5	6081.7	6522.8	6548.2	5957.1
27.5°	4943.5	4936.5	5001.2	5012.7	5206.6	5527.6	6097.9	6155.6	6726.0	6705.1	5973.2
30°	5063.5	5028.9	5068.1	5204.4	5294.4	5686.9	6351.9	6347.3	6989.1	6975.3	6024.0
32.5°	5211.3	5195.1	5220.5	5340.6	5493.0	5899.4	6566.6	6702.9	7257.0	7344.8	6199.5
35°	5239.0	5305.9	5366.0	5527.6	5744.6	6243.4	6970.7	7083.8	7566.4	7841.2	6534.3
37.5°	5414.4	5439.9	5580.7	5867.0	6065.6	6702.9	7227.0	7298.6	7848.1	8159.8	6887.6
40°	5601.5	5631.5	5843.9	6144.1	6416.5	7003.0	7467.1	7490.2	7938.1	8404.6	7118.5
42.5°	5855.5	5883.1	6093.3	6469.7	6834.5	7259.3	7679.5	7705.0	7931.2	8686.2	7485.6
45°	6118.7	6185.6	6432.7	6859.9	7187.7	7559.5	7728.1	7832.0	7995.8	8937.9	7783.4
47.5°	6488.1	6550.5	6753.7	7171.6	7554.9	7822.7	7952.0	8053.6	8150.6	9157.3	7975.1
50°	6880.6	6892.2	7139.2	7517.9	7799.6	8120.6	8369.9	8404.6	8353.7	9411.3	8300.7
52.5°	7169.2	7206.2	7397.9	7767.3	8187.5	8582.3	8924.1	8961.0	8861.7	9505.9	8411.5
55°	6691.3	6670.5	6982.2	7474.0	8448.4	9270.4	9766.8	9794.5	9231.2	9799.2	8774.0
57.5°	5172.0	5271.3	5536.8	6130.3	7506.4	9575.2	10418.0	10318.7	9674.4	9946.9	9004.9
60°	3758.9	3735.8	3913.7	4310.8	5656.9	8252.2	9850.0	9951.5	9312.0	8965.6	7425.6
62.5°	3061.7	3029.3	3043.2	3057.1	3650.4	5476.8	7291.6	7289.3	7171.6	6444.2	5008.1
65°	2447.5	2523.7	2530.6	2634.5	2710.7	3271.8	4225.4	4451.7	3876.7	3179.4	2306.6
67.5°	1844.8	1817.1	1909.5	2278.9	2422.1	2362.1	2306.6	2332.0	1657.8	1196.0	1126.7
70°	1087.5	1076.0	1186.8	1588.6	1994.9	1877.2	1738.7	1740.9	1138.3	835.9	930.5
72.5°	595.7	593.4	616.5	805.8	1133.7	1177.6	1043.7	1076.0	678.9	676.5	727.3
75°	332.5	325.6	318.6	355.6	408.6	431.7	441.0	445.6	466.4	521.8	542.6
77.5°	122.4	117.8	117.8	136.2	173.2	217.0	274.8	279.4	330.2	378.7	399.4
80°	41.6	46.2	62.3	85.4	115.4	154.7	187.1	191.7	233.2	265.5	272.5
82.5°	25.4	27.7	41.6	60.1	83.2	108.5	138.5	140.9	173.2	193.9	203.2
85°	11.5	13.9	23.1	37.0	53.1	71.6	73.9	73.9	71.6	73.9	69.3
87.5°	0.0	0.0	4.6	4.6	4.6	6.9	9.2	6.9	11.5	13.9	13.9
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°	6982.2	6982.2	6982.2	6982.2	6982.2	6982.2	6982.2	6982.2	6982.2	6982.2	6982.2
2.5°	6919.9	6894.5	6816.0	6746.7	6726.0	6633.6	6497.3	6513.5	6414.3	6460.5	6411.9
5°	6825.3	6739.8	6538.9	6453.5	6229.5	6127.9	6058.7	5885.5	5804.7	5788.5	5719.3
7.5°	6582.8	6529.7	6278.0	6047.1	5809.3	5606.1	5345.2	5167.4	5040.4	5005.8	4904.2
10°	6391.2	6273.4	5924.7	5573.8	5234.4	4881.1	4541.7	4276.2	4146.8	3996.7	3946.0
12.5°	6201.8	6024.0	5553.0	5102.7	4664.1	4218.4	3807.4	3484.2	3202.5	3135.5	3112.4
15°	6084.1	5774.6	5220.5	4678.0	4054.5	3472.7	3061.7	2849.3	2676.1	2604.5	2655.3
17.5°	5929.3	5569.2	4901.9	4179.2	3493.4	2957.8	2613.7	2482.1	2419.8	2426.7	2405.9
20°	5735.4	5375.2	4483.9	3726.6	2992.4	2565.3	2369.0	2320.5	2329.7	2345.9	2339.0
22.5°	5596.9	5139.7	4181.5	3264.9	2586.0	2348.2	2267.4	2232.7	2262.8	2276.7	2265.1
25°	5490.6	4938.9	3814.4	2856.1	2350.5	2225.8	2188.9	2186.6	2232.7	2251.2	2239.7
27.5°	5393.7	4751.8	3449.6	2544.4	2193.5	2131.2	2119.6	2147.3	2177.4	2195.8	2212.0
30°	5336.0	4608.7	3107.8	2283.5	2115.0	2085.0	2064.2	2089.6	2105.7	2124.2	2115.0
32.5°	5391.3	4507.0	2777.7	2135.8	2050.4	2020.3	2048.0	2031.9	2059.6	2075.7	2050.4
35°	5564.5	4417.0	2542.2	2057.3	1976.4	1988.0	1992.6	1985.7	1997.2	1983.4	2013.4
37.5°	5735.4	4384.6	2325.1	1990.3	1941.8	1941.8	1937.2	1923.4	1946.5	1941.8	1955.7
40°	5952.4	4405.5	2140.4	1918.7	1909.5	1904.9	1886.4	1884.1	1874.9	1877.2	1881.8
42.5°	6141.8	4451.7	2034.2	1872.5	1879.5	1888.8	1854.1	1826.3	1837.9	1814.8	1814.8
45°	6342.7	4493.2	1939.5	1840.2	1833.3	1831.0	1803.2	1787.1	1777.9	1780.2	1801.0
47.5°	6659.0	4553.2	1867.9	1796.4	1801.0	1766.4	1759.4	1738.7	1747.9	1761.8	1764.0
50°	6883.0	4680.2	1812.5	1745.5	1761.8	1738.7	1697.1	1687.8	1687.8	1710.9	1706.3
52.5°	7040.0	4858.0	1759.4	1690.2	1697.1	1678.6	1664.7	1644.0	1630.1	1662.5	1678.6
55°	7520.2	5153.5	1745.5	1644.0	1641.6	1623.2	1597.8	1577.0	1570.1	1574.7	1607.0
57.5°	7474.0	5061.2	1701.7	1563.2	1558.6	1533.1	1507.7	1500.8	1498.5	1503.1	1512.4
60°	6067.9	3738.2	1519.3	1470.8	1463.9	1459.3	1433.8	1406.1	1392.3	1406.1	1394.6
62.5°	4015.2	2502.9	1339.2	1360.0	1364.6	1353.0	1311.4	1283.8	1288.4	1304.6	1279.2
65°	1971.8	1470.8	1214.5	1269.9	1274.6	1242.2	1202.9	1170.7	1154.5	1168.3	1156.8
67.5°	1126.7	1124.5	1112.9	1170.7	1168.3	1136.0	1073.6	1045.9	1018.2	1022.8	1015.9
70°	955.9	974.4	997.5	1032.1	1029.8	992.8	918.9	898.2	859.0	854.3	842.7
72.5°	752.7	785.0	835.9	861.2	840.5	794.3	745.8	711.1	676.5	655.8	662.7
75°	558.7	604.9	632.7	648.8	616.5	591.1	551.9	510.3	468.7	450.2	443.3
77.5°	406.4	420.2	445.6	457.2	436.4	411.0	387.9	346.3	307.1	281.7	274.8
80°	284.0	293.2	311.7	311.7	311.7	300.1	270.1	228.6	203.2	180.1	175.5
82.5°	198.6	207.8	226.3	217.0	214.7	200.8	182.4	150.1	122.4	106.2	101.6
85°	69.3	76.2	92.4	110.8	117.8	115.4	103.9	83.2	64.7	53.1	48.5
87.5°	16.1	16.1	18.5	16.1	16.1	18.5	16.1	16.1	16.1	11.5	9.2
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)