

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: P651973

Luminaire Tested: **GALN-SA6A-840-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651973  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-840-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16744.3 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

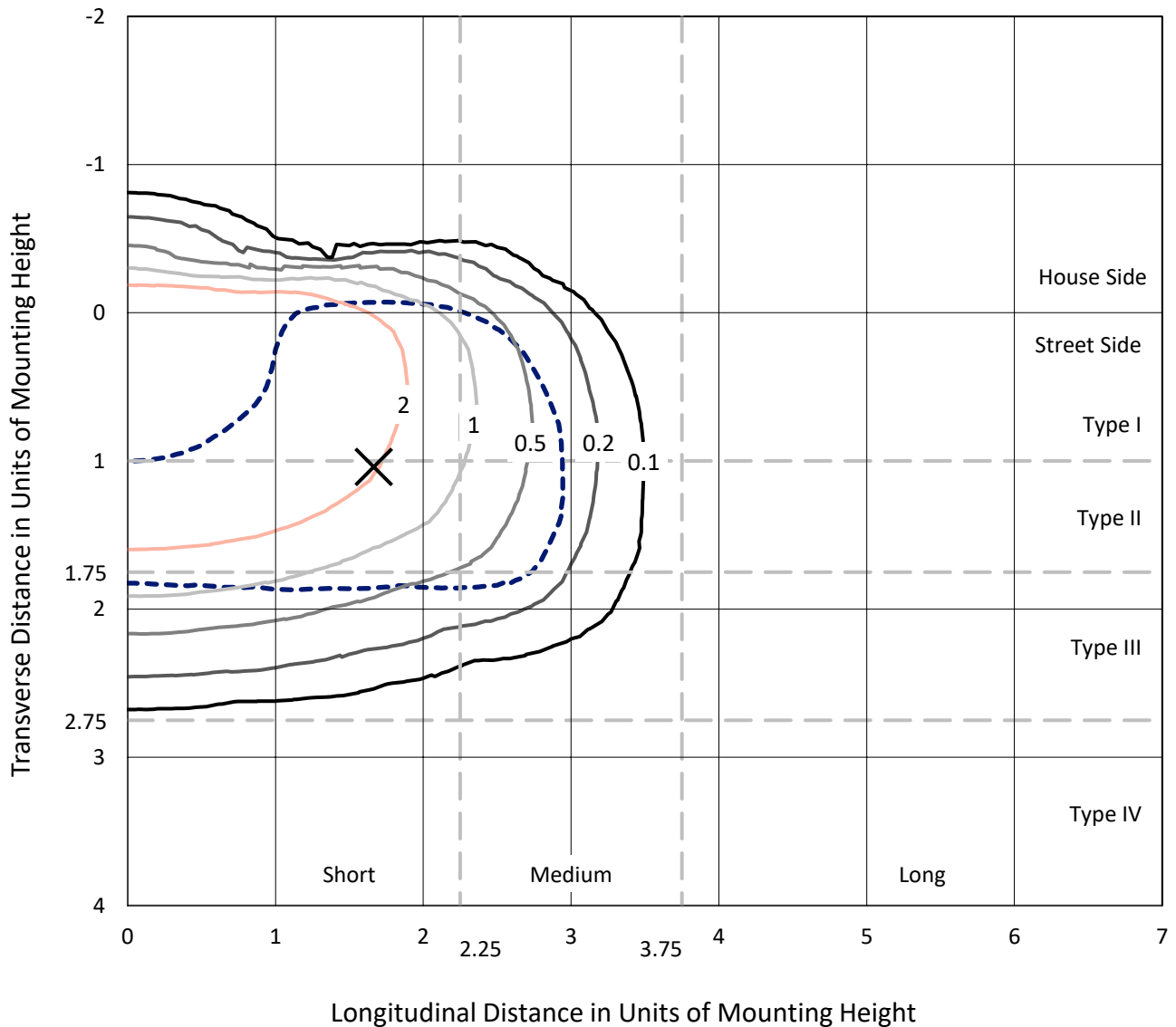
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

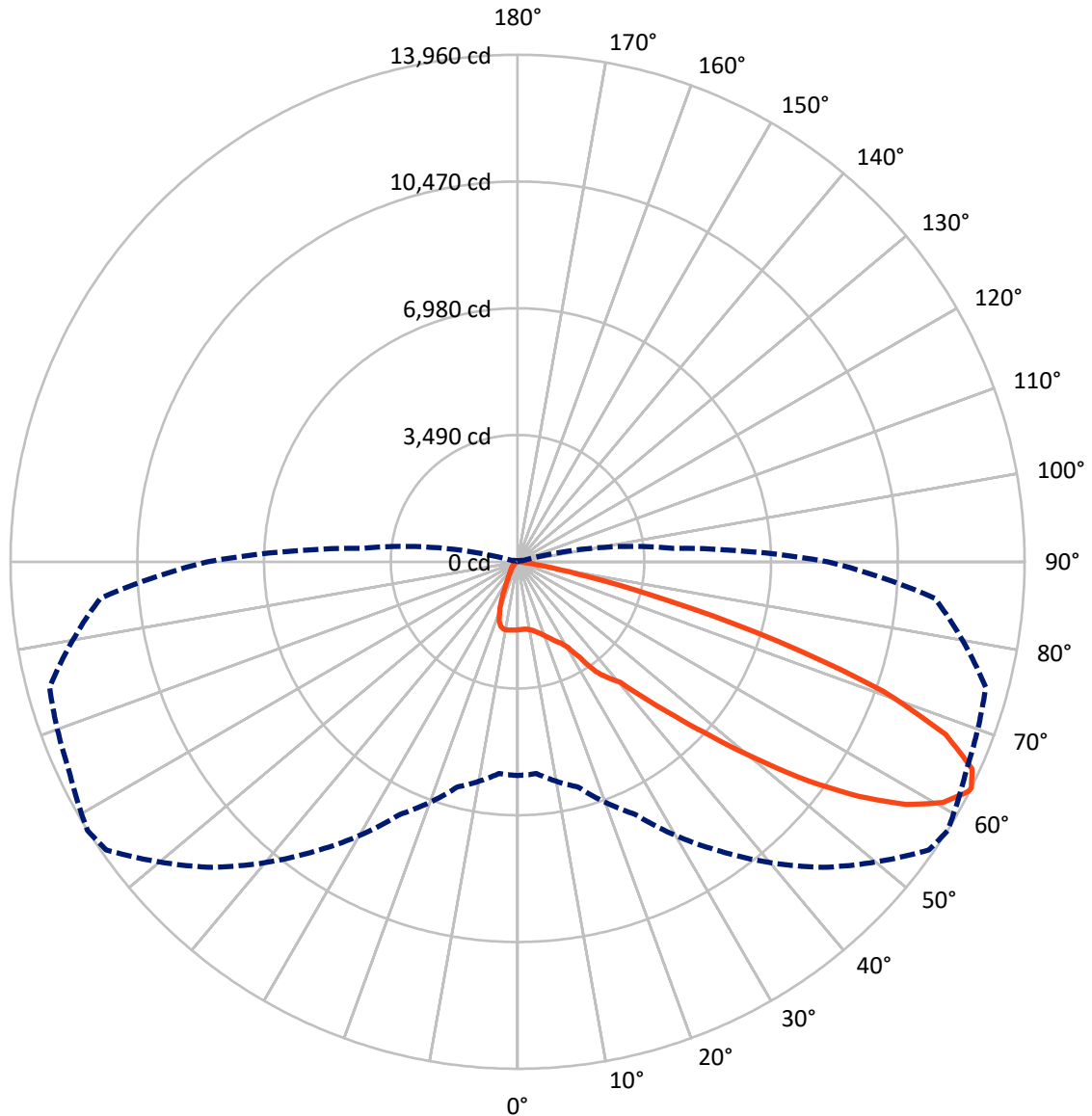
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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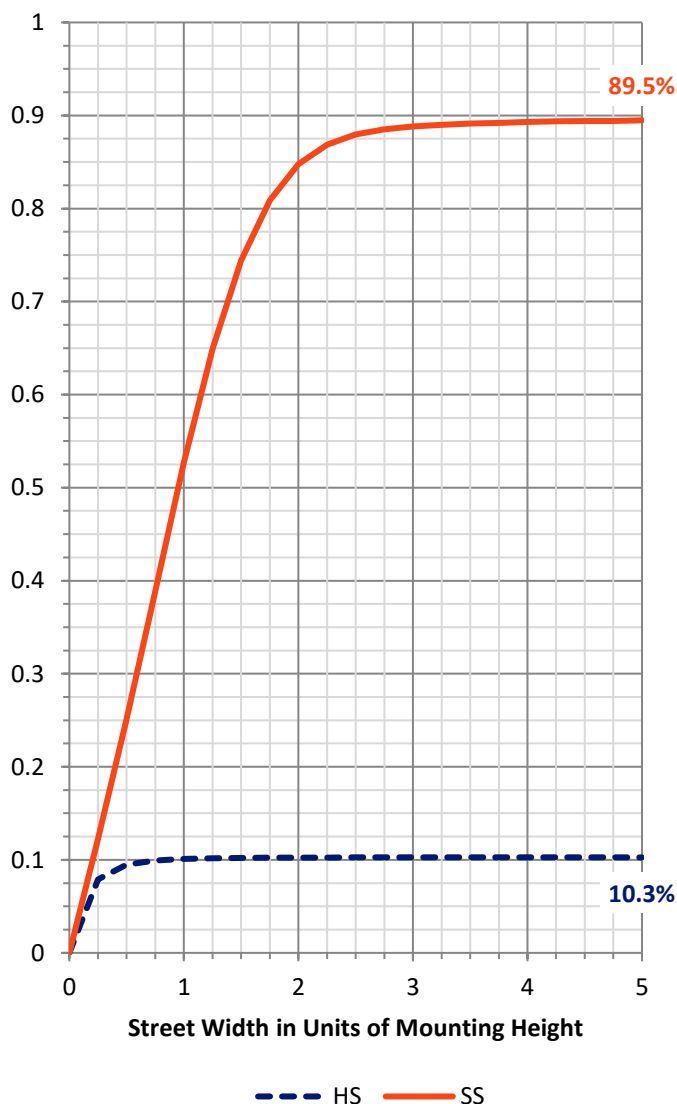
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1733.8	0.0	1733.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	15010.6	0.0	15010.6
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	16744.3	0.0	16744.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	1.0
10°-20°	478.0	2.9
20°-30°	829.5	5.0
30°-40°	1524.4	9.1
40°-50°	2869.6	17.1
50°-60°	4908.2	29.3
60°-70°	4699.6	28.1
70°-80°	1198.4	7.2
80°-90°	61.3	0.4
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°	16744.3	100.0
0°-180°	16744.3	100.0

**Coefficient of Utilization**



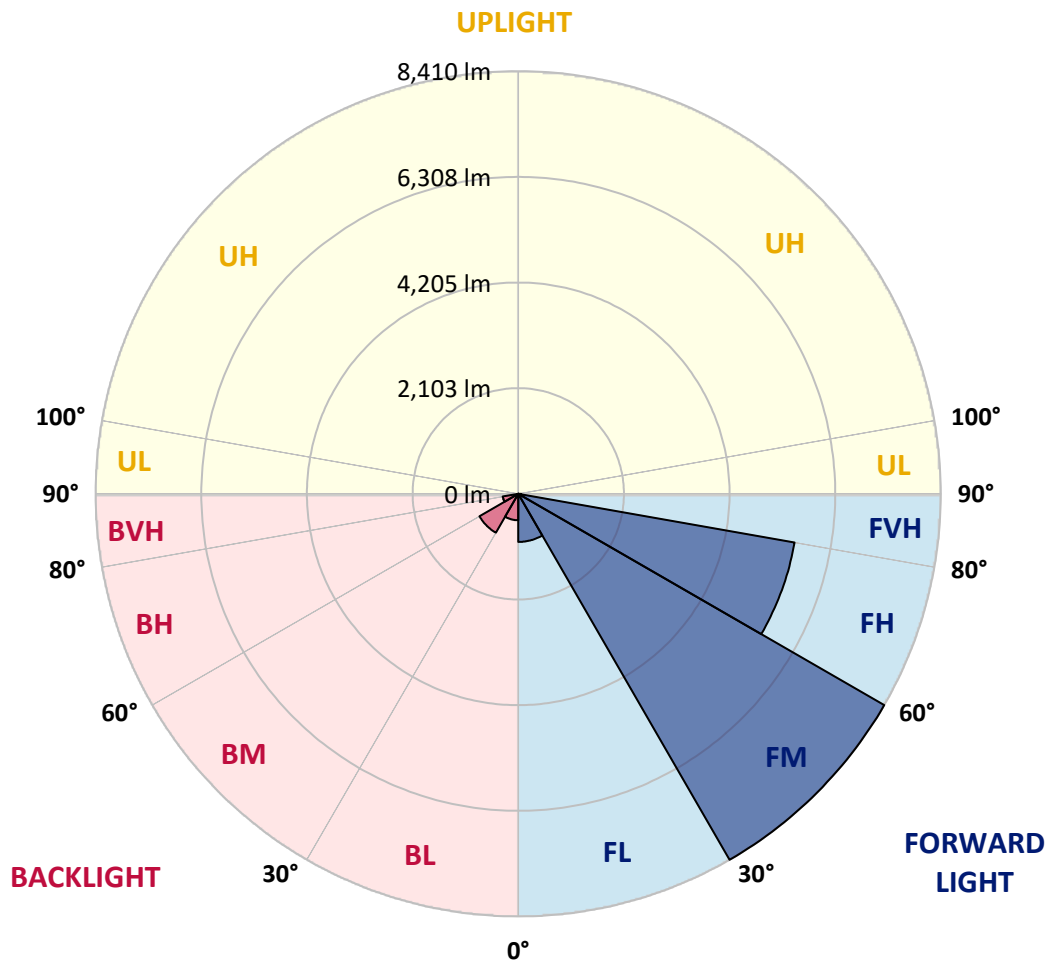
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.2	5.7			
FM (30°-60°)	8410.3	50.2			
FH (60°-80°)	5584.1	33.3			G3/7500
FVH (80°-90°)	58.9	0.4			G1/100
BL (0°-30°)	525.8	3.1	B2/1000		
BM (30°-60°)	891.7	5.3	B1/1000		
BH (60°-80°)	313.9	1.9	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1874.6	1874.6	1874.6	1874.6	1874.6	1874.6	1874.6	1874.6	1874.6	1874.6	1874.6
2.5°	1827.9	1834.2	1840.5	1843.1	1851.9	1860.7	1867.0	1865.8	1875.9	1880.9	1880.9
5°	1754.8	1754.8	1771.2	1786.4	1811.6	1836.7	1860.7	1865.8	1884.7	1902.3	1908.6
7.5°	1693.0	1696.8	1709.4	1737.2	1771.2	1815.3	1863.2	1874.6	1907.4	1946.4	1962.8
10°	1664.1	1666.6	1683.0	1711.9	1754.8	1815.3	1882.2	1903.6	1954.0	2015.8	2038.5
12.5°	1657.8	1661.6	1678.0	1710.7	1759.9	1833.0	1923.8	1946.4	2019.6	2099.0	2133.0
15°	1669.1	1671.7	1688.1	1723.3	1777.5	1864.5	1979.2	2010.7	2097.7	2189.7	2233.9
17.5°	1709.4	1706.9	1718.2	1747.3	1807.8	1903.6	2046.1	2083.8	2186.0	2312.1	2341.0
20°	1880.9	1864.5	1854.4	1829.2	1853.1	1959.0	2126.7	2182.2	2308.3	2436.9	2457.0
22.5°	2250.3	2213.7	2141.9	2043.5	1967.9	2034.7	2223.8	2288.1	2450.7	2576.7	2576.7
25°	2720.5	2673.9	2602.0	2387.7	2202.3	2159.5	2333.4	2414.2	2605.8	2733.1	2691.5
27.5°	3309.3	3272.7	3132.7	2883.1	2599.4	2377.6	2460.8	2535.2	2743.2	2897.0	2810.0
30°	3788.3	3770.6	3655.9	3432.8	3120.1	2796.2	2697.8	2747.0	2926.0	3103.7	3014.2
32.5°	4192.9	4192.9	4075.7	3867.7	3575.2	3287.8	3099.9	3135.2	3306.7	3512.2	3345.8
35°	4637.9	4622.8	4528.3	4330.3	4002.6	3749.2	3672.3	3720.2	3875.2	4027.8	3618.1
37.5°	5105.6	5100.6	5002.3	4810.7	4543.4	4224.4	4044.2	4056.8	4136.2	4229.5	3937.1
40°	5613.7	5621.2	5492.7	5374.2	5122.0	4795.6	4450.1	4370.7	4445.0	4708.5	4525.8
42.5°	6213.7	6196.1	6140.6	5979.3	5776.3	5580.9	5166.2	5137.2	5202.7	5485.1	5287.2
45°	6910.9	6936.1	6840.3	6750.8	6614.6	6452.0	6105.3	6054.9	6126.8	6565.5	6284.4
47.5°	7609.3	7585.3	7647.1	7630.7	7703.8	7582.8	7276.5	7173.1	7345.8	7761.8	7348.3
50°	8141.3	8167.8	8296.4	8484.2	8798.1	8866.2	8572.4	8537.2	8614.0	8881.3	8300.2
52.5°	8486.7	8574.9	8776.7	9259.5	9825.5	10265.5	10042.4	10023.5	9991.9	10063.8	9210.3
55°	8712.3	8801.9	9065.4	9776.4	10750.8	11465.6	11477.0	11396.3	11188.3	11136.6	10061.3
57.5°	8573.7	8591.3	8967.0	9917.6	11263.9	12321.7	12692.3	12611.6	12227.0	12031.7	10812.7
60°	7706.3	7742.9	8266.1	9383.0	11040.8	12601.5	13497.8	13461.2	13040.2	12819.6	11397.6
62.5°	6169.7	6275.5	6813.9	8059.4	10003.3	12130.0	13824.3	13927.7	13599.9	13296.1	11581.6
63°	5887.3	5853.2	6421.8	7673.6	9728.4	11896.8	13829.3	13960.4	13625.1	13341.5	11531.2
65°	4358.1	4460.2	4829.5	6051.2	8095.9	10811.4	13518.0	13749.9	13531.9	13141.0	10972.7
67.5°	2446.9	2441.8	2850.3	3959.7	5666.7	8480.4	12223.3	12713.6	12668.3	11792.2	9095.6
70°	1197.6	1216.5	1384.2	2052.4	3286.5	5850.7	10157.1	10686.6	10702.9	9262.0	6289.4
72.5°	542.1	550.9	670.7	999.7	1689.2	3115.1	6999.1	7504.7	7411.4	5902.4	3473.1
75°	286.2	305.1	369.4	503.0	814.3	1284.6	3807.2	4296.3	4100.9	2696.5	1278.3
77.5°	211.8	218.1	250.9	320.2	436.2	500.5	1642.6	1954.0	1830.4	975.7	423.6
80°	155.1	160.1	186.6	226.9	274.8	254.7	619.0	709.7	636.6	331.5	129.9
82.5°	94.5	95.8	136.2	169.0	172.7	142.5	204.2	219.3	229.4	186.6	70.6
85°	34.1	42.9	92.0	122.3	102.1	71.8	85.7	94.5	103.4	118.5	41.6
87.5°	3.8	5.0	44.2	59.3	29.0	26.5	31.5	35.3	37.8	44.2	20.2
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°	1874.6	1874.6	1874.6	1874.6	1874.6	1874.6	1874.6	1874.6	1874.6	1874.6	1874.6
2.5°	1885.9	1891.0	1887.2	1880.9	1879.6	1875.9	1868.3	1868.3	1868.3	1870.8	1868.3
5°	1913.7	1917.5	1908.6	1896.0	1882.2	1864.5	1845.6	1834.2	1833.0	1830.4	1824.1
7.5°	1966.6	1971.6	1951.5	1921.3	1883.4	1840.5	1800.2	1762.4	1744.7	1730.9	1730.9
10°	2043.5	2048.6	2008.2	1954.0	1878.4	1791.4	1695.5	1608.6	1540.5	1509.0	1501.4
12.5°	2135.6	2138.1	2071.2	1976.7	1851.9	1684.3	1480.0	1289.7	1157.3	1096.7	1090.4
15°	2236.4	2218.7	2130.5	1985.5	1776.3	1463.6	1110.6	877.4	740.0	699.6	714.8
17.5°	2338.5	2305.8	2175.9	1971.6	1606.1	1110.6	746.3	598.8	556.0	544.6	544.6
20°	2434.4	2388.9	2208.6	1911.2	1311.1	765.2	553.5	518.1	510.6	503.0	504.3
22.5°	2530.1	2460.8	2237.6	1776.3	977.0	547.2	495.4	484.1	474.0	463.9	462.6
25°	2623.4	2527.6	2249.0	1526.7	665.7	470.2	452.5	437.5	417.3	406.0	403.4
27.5°	2720.5	2608.3	2241.4	1211.5	485.3	421.1	403.4	382.0	358.0	337.8	337.8
30°	2907.1	2762.1	2214.9	871.1	408.5	370.6	347.9	313.9	287.5	267.3	266.0
32.5°	3161.7	2962.5	2124.2	612.7	363.1	326.5	292.5	254.7	226.9	211.8	211.8
35°	3388.6	3164.3	1954.0	451.3	326.5	283.7	242.0	205.5	184.1	174.0	170.2
37.5°	3734.0	3459.2	1719.5	366.8	291.2	245.8	202.9	169.0	151.3	143.7	143.7
40°	4252.2	3819.7	1432.1	321.4	257.2	209.2	169.0	142.5	128.6	119.8	119.8
42.5°	4895.1	4261.0	1140.9	288.7	225.6	180.3	141.2	121.0	108.4	102.1	100.8
45°	5704.4	4726.2	878.7	258.4	200.4	153.8	119.8	102.1	89.5	85.7	87.0
47.5°	6549.1	5135.9	680.8	231.9	174.0	129.9	102.1	88.2	79.4	74.3	74.3
50°	7270.2	5418.3	516.9	201.7	153.8	109.7	89.5	79.4	71.8	69.3	68.0
52.5°	7872.8	5500.2	395.9	175.3	134.9	94.5	79.4	71.8	65.5	61.8	61.8
55°	8385.9	5428.4	310.2	147.5	113.5	81.9	70.6	64.3	56.8	53.0	51.7
57.5°	8685.9	5197.6	237.0	122.3	92.0	68.0	61.8	54.2	45.4	39.1	39.1
60°	8837.1	4862.3	181.6	100.8	70.6	54.2	50.5	40.4	31.5	26.5	25.2
62.5°	8655.7	4417.4	137.4	79.4	53.0	40.4	34.1	29.0	20.2	15.1	15.1
63°	8543.5	4288.8	132.4	75.6	49.2	37.8	31.5	26.5	17.7	13.9	12.6
65°	7788.3	3727.7	108.4	60.6	39.1	26.5	21.4	18.9	12.6	6.3	5.0
67.5°	6184.8	2851.6	85.7	45.4	27.8	18.9	12.6	11.4	3.8	0.0	0.0
70°	4181.6	1841.8	66.8	32.8	18.9	11.4	6.3	5.0	1.3	0.0	0.0
72.5°	2181.0	944.2	51.7	24.0	11.4	7.6	3.8	1.3	0.0	0.0	0.0
75°	771.5	321.4	37.8	15.1	7.6	3.8	1.3	0.0	0.0	0.0	0.0
77.5°	233.2	119.8	24.0	11.4	5.0	2.5	0.0	0.0	0.0	0.0	0.0
80°	81.9	44.2	13.9	7.6	3.8	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	40.4	21.4	8.8	6.3	3.8	1.3	0.0	0.0	0.0	0.0	0.0
85°	22.7	13.9	7.6	6.3	3.8	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	16.4	10.1	7.6	6.3	5.0	2.5	1.3	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)