

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: P648453

Luminaire Tested: **GALN-SA5B-835-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648453  
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-SA5B-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 800mA 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: 16381.2 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

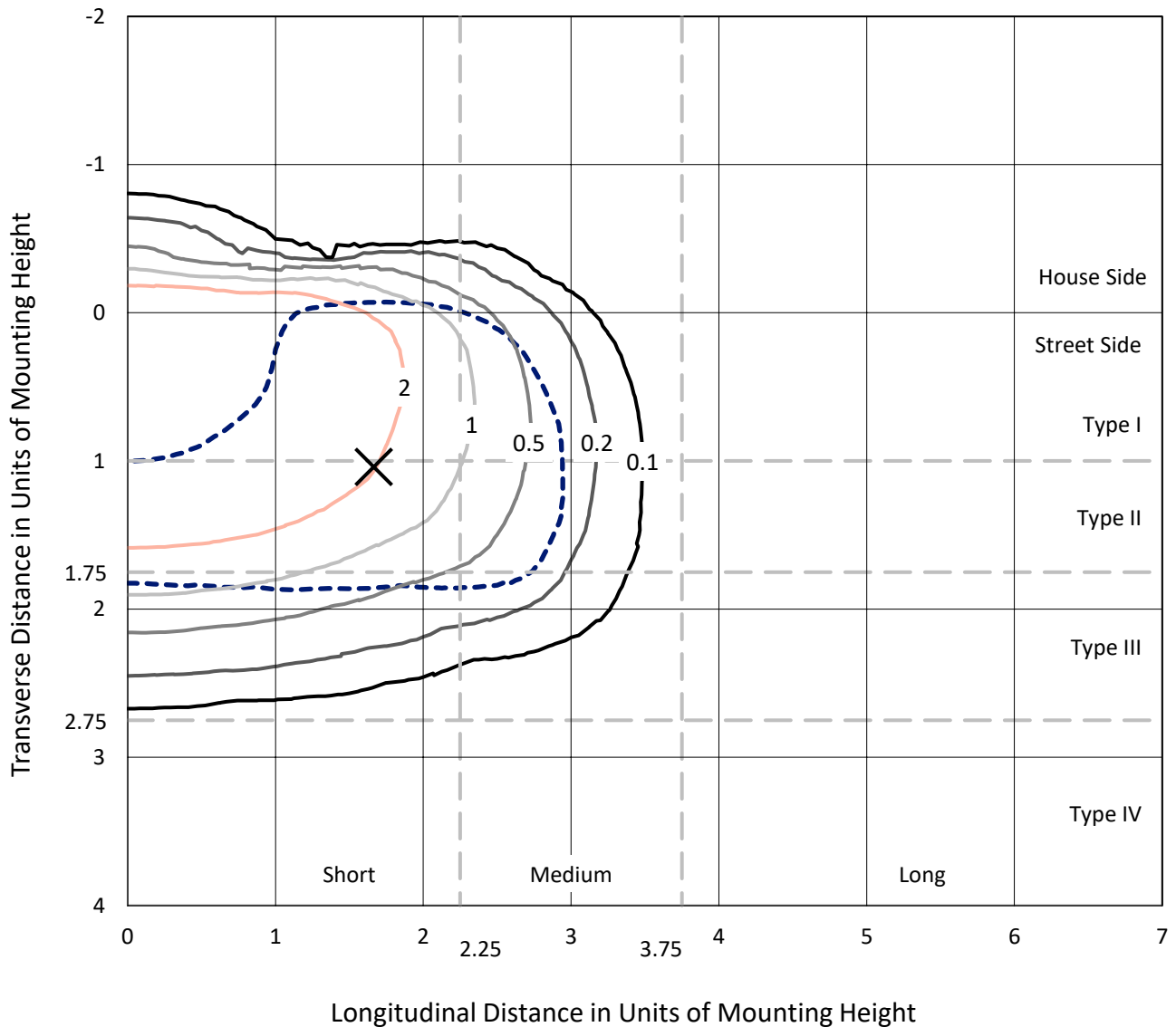
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

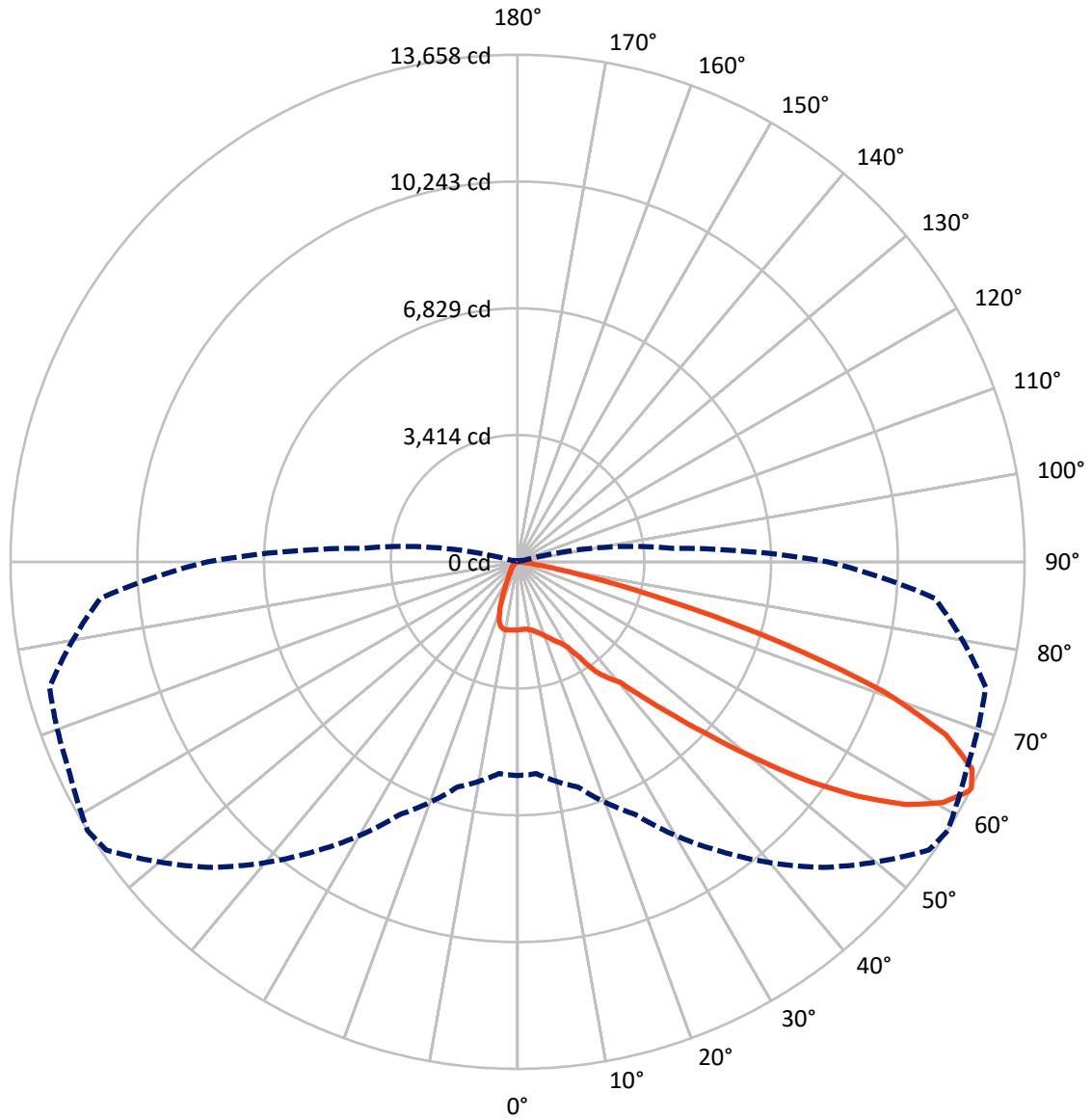
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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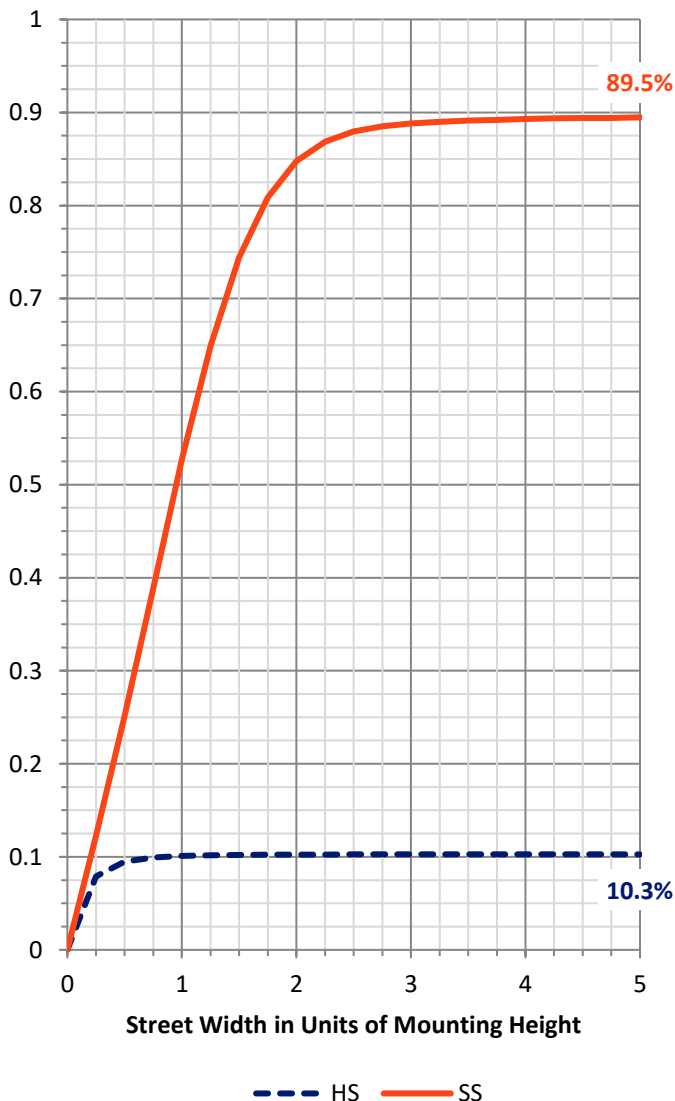
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1696.2	0.0	1696.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	14685.0	0.0	14685.0
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	16381.2	0.0	16381.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.7	1.0
10°-20°	467.6	2.9
20°-30°	811.5	5.0
30°-40°	1491.3	9.1
40°-50°	2807.3	17.1
50°-60°	4801.7	29.3
60°-70°	4597.6	28.1
70°-80°	1172.4	7.2
80°-90°	60.0	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°	16381.2	100.0
0°-180°	16381.2	100.0

**Coefficient of Utilization**



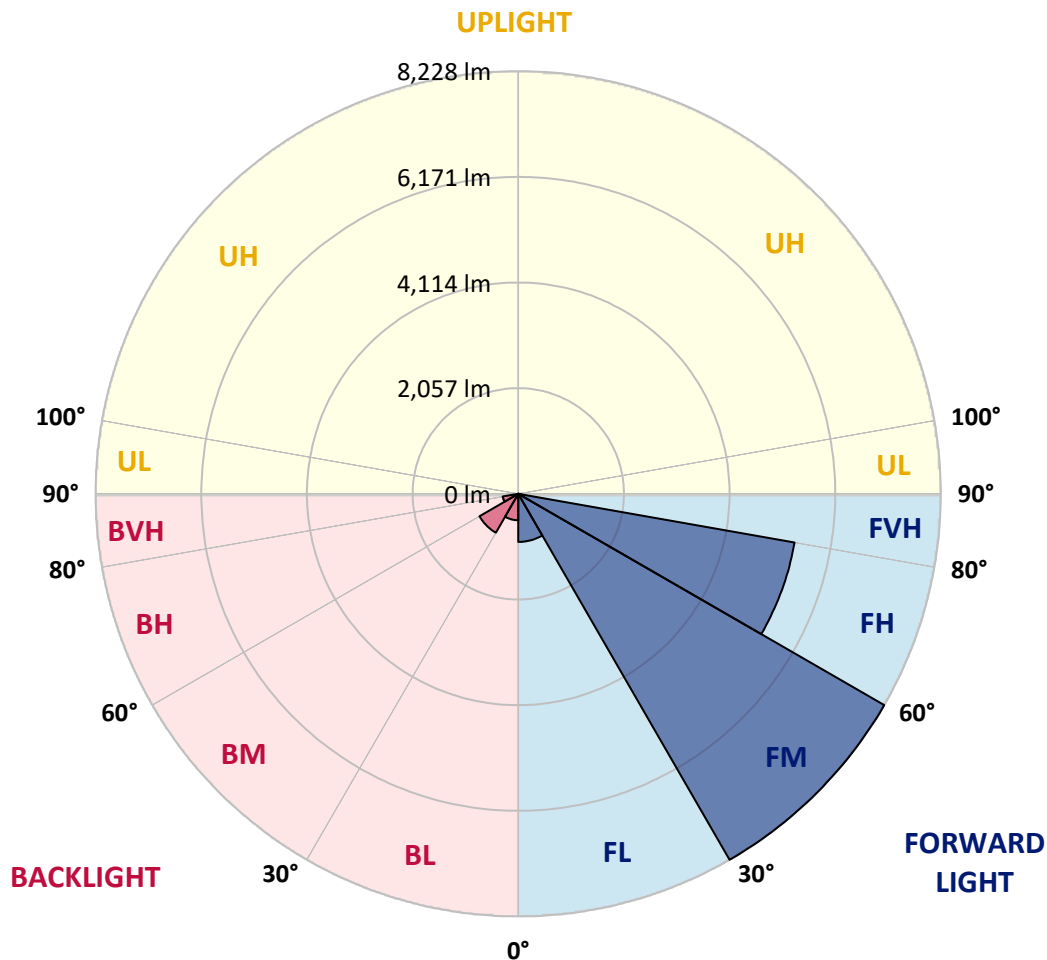
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	936.4	5.7			
FM (30°-60°)	8227.9	50.2			
FH (60°-80°)	5463.0	33.3			G3/7500
FVH (80°-90°)	57.6	0.4			G1/100
BL (0°-30°)	514.4	3.1	B2/1000		
BM (30°-60°)	872.4	5.3	B1/1000		
BH (60°-80°)	307.0	1.9	B1/500		G1/500
BVH (80°-90°)	2.3	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°	1833.9	1833.9	1833.9	1833.9	1833.9	1833.9	1833.9	1833.9	1833.9	1833.9	1833.9
2.5°	1788.3	1794.5	1800.7	1803.1	1811.7	1820.4	1826.5	1825.3	1835.2	1840.1	1840.1
5°	1716.8	1716.8	1732.8	1747.6	1772.2	1796.9	1820.4	1825.3	1843.8	1861.0	1867.2
7.5°	1656.4	1660.0	1672.3	1699.5	1732.8	1776.0	1822.8	1833.9	1866.0	1904.3	1920.2
10°	1627.9	1630.4	1646.5	1674.8	1716.8	1776.0	1841.3	1862.3	1911.6	1972.1	1994.3
12.5°	1621.8	1625.5	1641.6	1673.6	1721.7	1793.2	1882.0	1904.3	1975.7	2053.5	2086.8
15°	1632.9	1635.4	1651.4	1686.0	1739.0	1824.1	1936.3	1967.1	2052.2	2142.3	2185.4
17.5°	1672.3	1669.9	1681.0	1709.4	1768.6	1862.3	2001.7	2038.7	2138.5	2261.9	2290.3
20°	1840.1	1824.1	1814.2	1789.5	1813.0	1916.5	2080.6	2134.8	2258.2	2384.0	2403.7
22.5°	2201.5	2165.7	2095.4	1999.2	1925.2	1990.5	2175.6	2238.4	2397.5	2520.9	2520.9
25°	2661.5	2615.8	2545.5	2335.9	2154.6	2112.7	2282.8	2361.8	2549.3	2673.8	2633.2
27.5°	3237.5	3201.7	3064.7	2820.6	2543.1	2326.1	2407.4	2480.2	2683.7	2834.1	2749.0
30°	3706.1	3688.9	3576.6	3358.3	3052.4	2735.5	2639.3	2687.4	2862.5	3036.4	2948.9
32.5°	4102.0	4102.0	3987.3	3783.8	3497.7	3216.5	3032.7	3067.2	3235.0	3436.0	3273.2
35°	4537.3	4522.5	4430.1	4236.4	3915.8	3667.9	3592.6	3639.5	3791.2	3940.4	3539.6
37.5°	4994.9	4990.0	4893.8	4706.3	4444.9	4132.8	3956.4	3968.8	4046.5	4137.8	3851.7
40°	5492.0	5499.3	5373.5	5257.6	5011.0	4691.5	4353.6	4275.9	4348.6	4606.4	4427.6
42.5°	6079.0	6061.8	6007.5	5849.6	5651.0	5459.9	5054.1	5025.8	5089.9	5366.1	5172.5
45°	6761.0	6785.6	6691.9	6604.4	6471.2	6312.1	5973.0	5923.6	5993.9	6423.1	6148.0
47.5°	7444.3	7420.8	7481.3	7465.2	7536.8	7418.4	7118.6	7017.6	7186.5	7593.5	7189.0
50°	7964.8	7990.6	8116.4	8300.2	8607.3	8673.8	8386.5	8351.9	8427.2	8688.6	8120.1
52.5°	8302.6	8389.0	8586.3	9058.7	9612.4	10042.8	9824.5	9806.1	9775.2	9845.5	9010.5
55°	8523.4	8611.0	8868.7	9564.3	10517.6	11216.9	11228.1	11149.1	10945.6	10895.1	9843.0
57.5°	8387.7	8405.0	8772.5	9702.5	11019.6	12054.4	12417.0	12338.0	11961.9	11770.7	10578.1
60°	7539.2	7575.0	8086.8	9179.5	10801.3	12328.2	13205.1	13169.3	12757.3	12541.5	11150.4
62.5°	6035.8	6139.4	6666.1	7884.6	9786.3	11866.9	13524.4	13625.6	13305.0	13007.7	11330.4
63°	5759.6	5726.2	6282.5	7507.2	9517.4	11638.7	13529.4	13657.7	13329.6	13052.1	11281.1
65°	4263.6	4363.4	4724.8	5919.9	7920.3	10576.8	13224.8	13451.7	13238.3	12856.0	10734.7
67.5°	2393.9	2388.9	2788.5	3873.8	5543.7	8296.5	11958.2	12438.0	12393.6	11536.4	8898.3
70°	1171.7	1190.2	1354.2	2007.8	3215.2	5723.8	9936.8	10454.8	10470.8	9061.1	6153.0
72.5°	530.3	538.9	656.2	978.0	1652.6	3047.5	6847.3	7341.9	7250.7	5774.4	3397.8
75°	279.9	298.5	361.4	492.1	796.7	1256.7	3724.6	4203.1	4011.9	2638.1	1250.6
77.5°	207.2	213.4	245.4	313.3	426.7	489.6	1607.0	1911.6	1790.8	954.6	414.4
80°	151.7	156.6	182.5	222.0	268.9	249.2	605.6	694.4	622.8	324.4	127.0
82.5°	92.5	93.7	133.2	165.3	169.0	139.4	199.8	214.6	224.5	182.5	69.1
85°	33.3	42.0	90.0	119.6	99.9	70.3	83.9	92.5	101.2	116.0	40.7
87.5°	3.7	4.9	43.1	57.9	28.3	25.9	30.9	34.5	37.0	43.1	19.7
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°	1833.9	1833.9	1833.9	1833.9	1833.9	1833.9	1833.9	1833.9	1833.9	1833.9	1833.9
2.5°	1845.1	1850.0	1846.2	1840.1	1838.9	1835.2	1827.8	1827.8	1827.8	1830.3	1827.8
5°	1872.2	1875.8	1867.2	1854.9	1841.3	1824.1	1805.6	1794.5	1793.2	1790.8	1784.6
7.5°	1924.0	1928.9	1909.2	1879.6	1842.6	1800.7	1761.2	1724.2	1706.9	1693.3	1693.3
10°	1999.2	2004.2	1964.6	1911.6	1837.6	1752.5	1658.8	1573.7	1507.1	1476.3	1468.9
12.5°	2089.2	2091.7	2026.3	1933.9	1811.7	1647.7	1447.9	1261.6	1132.1	1072.9	1066.8
15°	2187.9	2170.6	2084.3	1942.5	1737.7	1431.9	1086.6	858.4	724.0	684.5	699.3
17.5°	2287.8	2255.7	2128.7	1928.9	1571.2	1086.6	730.1	585.8	543.9	532.8	532.8
20°	2381.5	2337.1	2160.8	1869.7	1282.6	748.6	541.4	506.9	499.5	492.1	493.3
22.5°	2475.2	2407.4	2189.1	1737.7	955.8	535.3	484.7	473.6	463.7	453.8	452.7
25°	2566.5	2472.8	2200.2	1493.6	651.2	460.0	442.8	428.0	408.3	397.1	394.6
27.5°	2661.5	2551.7	2192.8	1185.2	474.8	411.9	394.6	373.7	350.2	330.5	330.5
30°	2844.0	2702.2	2167.0	852.2	399.6	362.6	340.4	307.1	281.2	261.4	260.2
32.5°	3093.2	2898.3	2078.2	599.4	355.2	319.5	286.1	249.2	222.0	207.2	207.2
35°	3315.1	3095.6	1911.6	441.5	319.5	277.5	236.8	201.0	180.1	170.2	166.5
37.5°	3653.1	3384.2	1682.2	358.9	284.9	240.5	198.6	165.3	148.0	140.6	140.6
40°	4159.9	3736.9	1401.0	314.5	251.6	204.8	165.3	139.4	125.8	117.1	117.1
42.5°	4788.9	4168.6	1116.2	282.4	220.7	176.3	138.1	118.4	106.1	99.9	98.7
45°	5580.8	4623.7	859.7	252.8	196.1	150.5	117.1	99.9	87.5	83.9	85.1
47.5°	6407.1	5024.5	666.0	226.9	170.2	127.0	99.9	86.4	77.7	72.7	72.7
50°	7112.5	5300.8	505.7	197.3	150.5	107.3	87.5	77.7	70.3	67.8	66.6
52.5°	7702.1	5380.9	387.3	171.4	131.9	92.5	77.7	70.3	64.1	60.4	60.4
55°	8204.0	5310.6	303.4	144.3	111.0	80.2	69.1	62.9	55.5	51.8	50.6
57.5°	8497.5	5085.0	231.8	119.6	90.0	66.6	60.4	53.0	44.4	38.2	38.2
60°	8645.5	4756.9	177.6	98.7	69.1	53.0	49.3	39.5	30.9	25.9	24.7
62.5°	8467.9	4321.5	134.4	77.7	51.8	39.5	33.3	28.3	19.7	14.8	14.8
63°	8358.1	4195.7	129.5	74.0	48.1	37.0	30.9	25.9	17.3	13.5	12.4
65°	7619.4	3646.9	106.1	59.2	38.2	25.9	21.0	18.5	12.4	6.2	4.9
67.5°	6050.6	2789.8	83.9	44.4	27.2	18.5	12.4	11.1	3.7	0.0	0.0
70°	4090.9	1801.8	65.4	32.1	18.5	11.1	6.2	4.9	1.3	0.0	0.0
72.5°	2133.6	923.8	50.6	23.4	11.1	7.4	3.7	1.3	0.0	0.0	0.0
75°	754.8	314.5	37.0	14.8	7.4	3.7	1.3	0.0	0.0	0.0	0.0
77.5°	228.2	117.1	23.4	11.1	4.9	2.5	0.0	0.0	0.0	0.0	0.0
80°	80.2	43.1	13.5	7.4	3.7	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	39.5	21.0	8.6	6.2	3.7	1.3	0.0	0.0	0.0	0.0	0.0
85°	22.2	13.5	7.4	6.2	3.7	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	16.1	9.9	7.4	6.2	4.9	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)