

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: P648065

Luminaire Tested: **GALN-SA7A-835-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648065  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-835-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25082.6 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

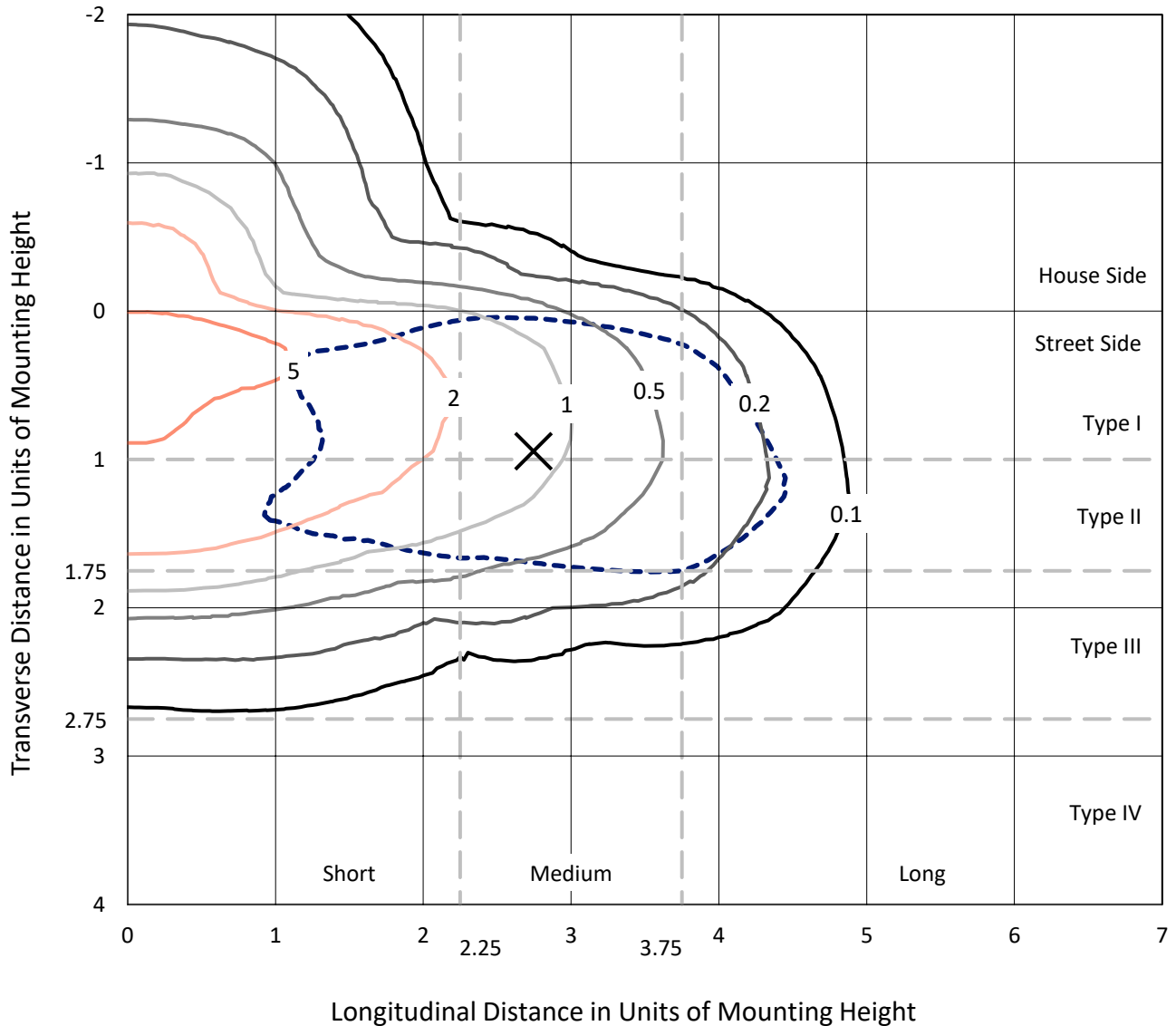
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

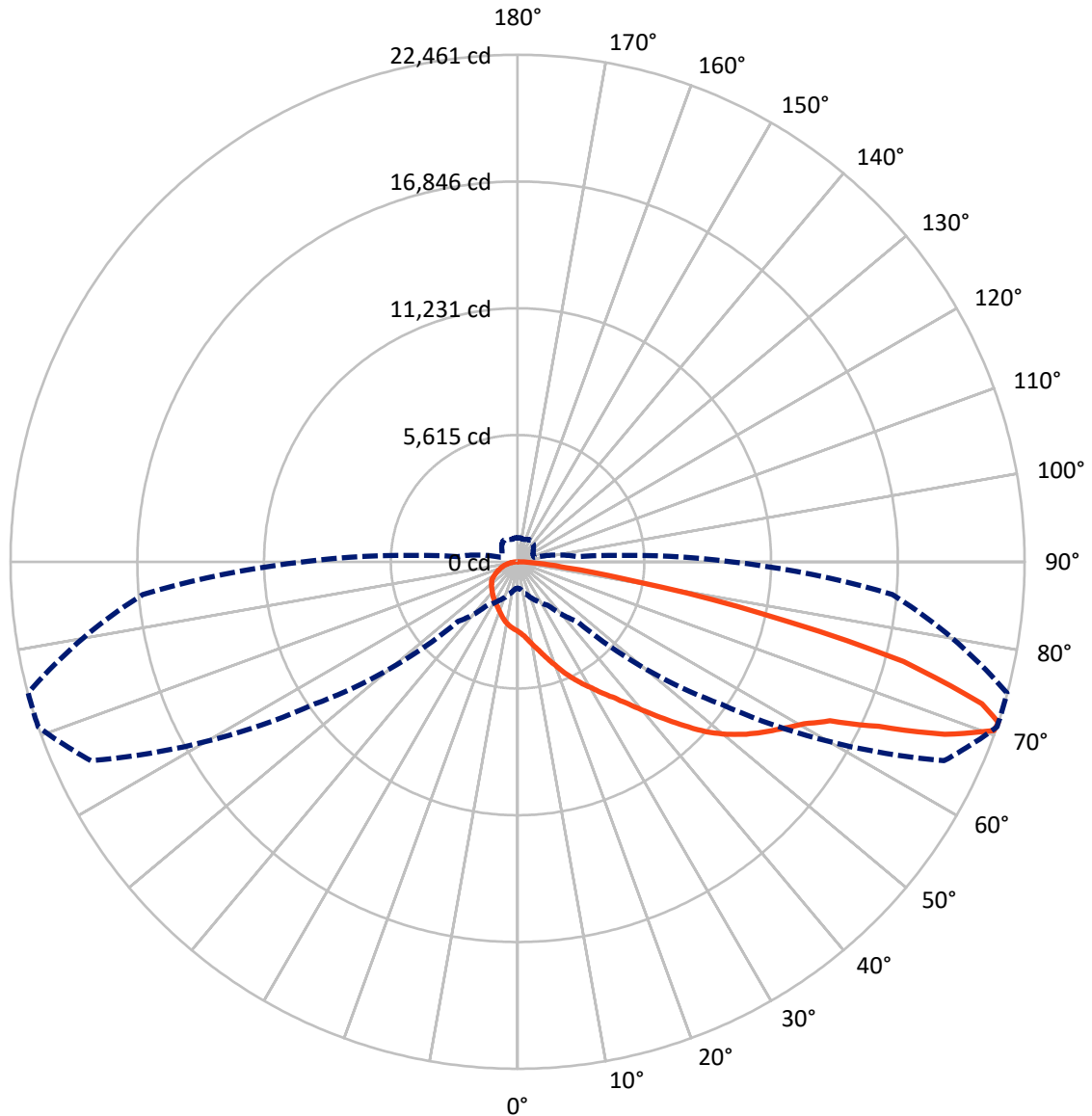
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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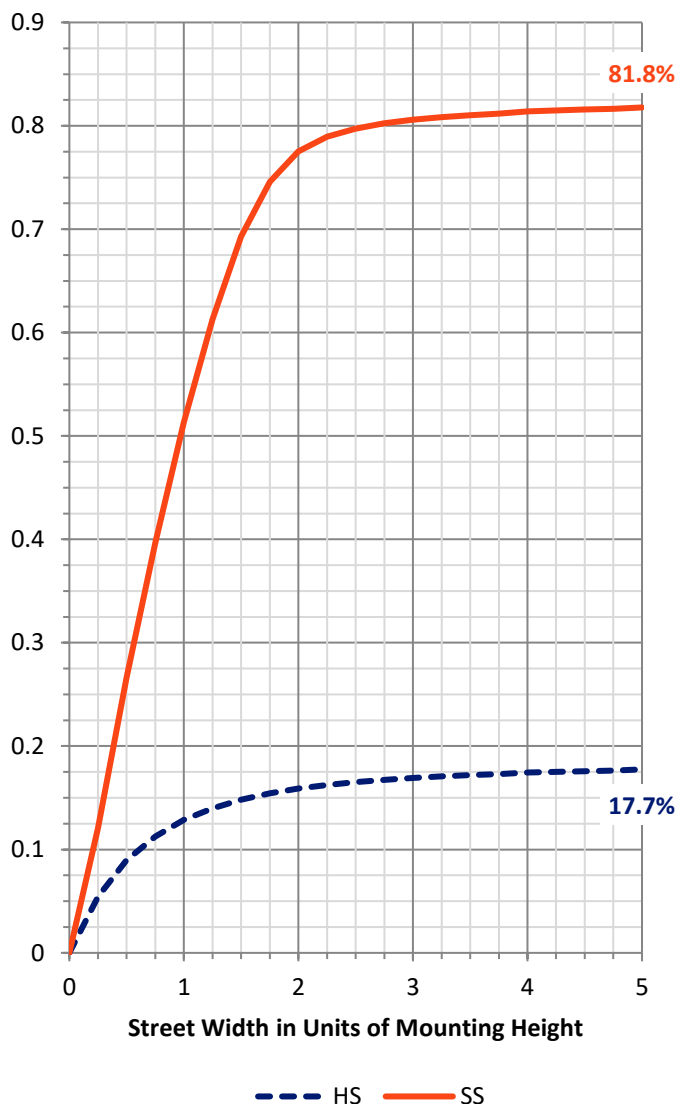
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4511.0	0.0	4511.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	20571.6	0.0	20571.6
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	25082.6	0.0	25082.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.1	1.2
10°-20°	1004.2	4.0
20°-30°	1754.9	7.0
30°-40°	2610.3	10.4
40°-50°	3845.9	15.3
50°-60°	5384.3	21.5
60°-70°	6022.1	24.0
70°-80°	3678.6	14.7
80°-90°	473.2	1.9
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°	25082.6	100.0
0°-180°	25082.6	100.0

**Coefficient of Utilization**

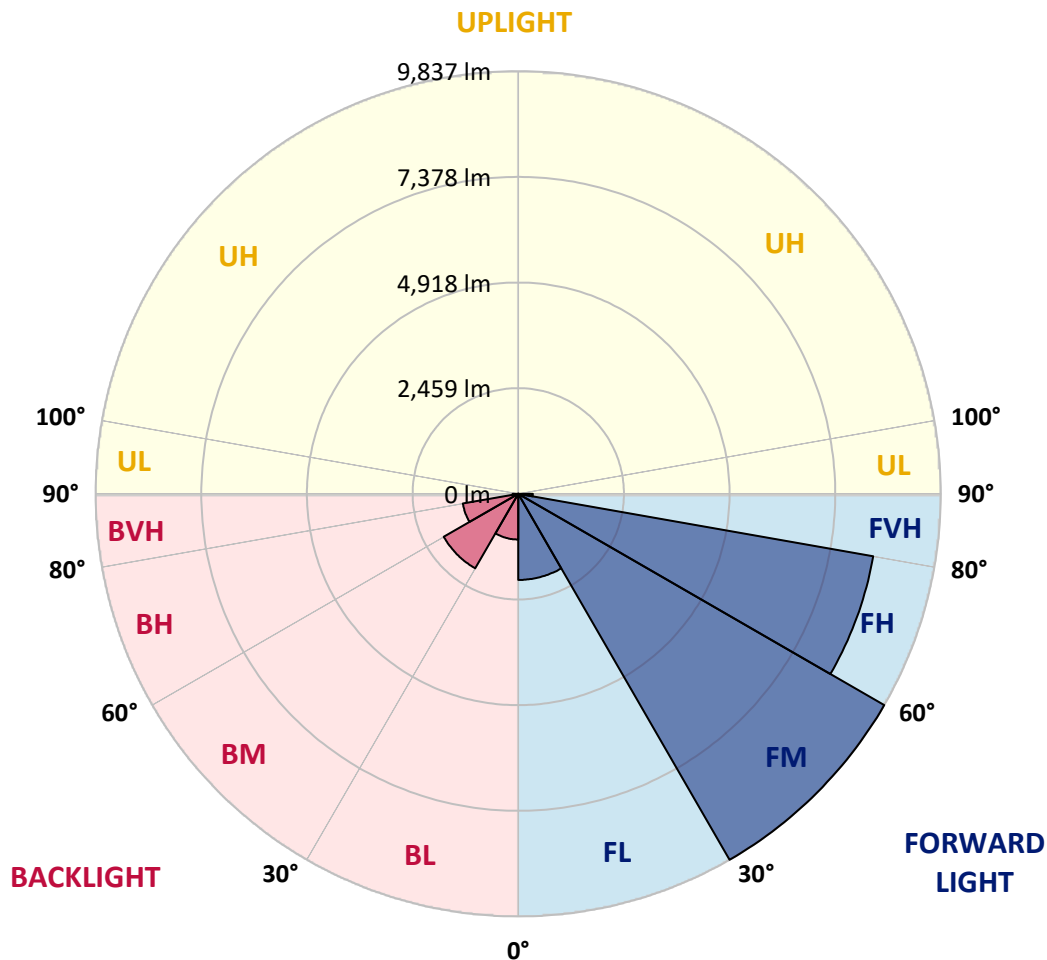


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2004.1	8.0			
FM (30°-60°)	9836.9	39.2			
FH (60°-80°)	8390.1	33.4			G4/12000
FVH (80°-90°)	340.5	1.4			G3/500
BL (0°-30°)	1064.1	4.2	B3/2500		
BM (30°-60°)	2003.5	8.0	B2/2500		
BH (60°-80°)	1310.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	132.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3078.4	3078.4	3078.4	3078.4	3078.4	3078.4	3078.4	3078.4	3078.4	3078.4	3078.4
2.5°	3417.6	3401.0	3402.4	3379.0	3348.6	3315.5	3268.6	3227.3	3194.2	3174.9	3118.4
5°	3787.0	3770.5	3749.8	3698.7	3676.7	3595.4	3491.9	3398.2	3326.6	3286.6	3173.5
7.5°	4086.2	4082.0	4076.5	4047.6	3991.0	3878.0	3789.7	3627.1	3520.9	3445.1	3252.1
10°	4270.9	4277.8	4281.9	4287.4	4264.0	4204.7	4083.4	3878.0	3742.9	3646.4	3354.1
12.5°	4364.6	4371.5	4395.0	4446.0	4477.7	4470.8	4371.5	4170.3	3984.1	3857.3	3463.1
15°	4422.5	4433.6	4474.9	4542.5	4648.6	4716.2	4667.9	4481.8	4277.8	4127.5	3592.6
17.5°	4486.0	4498.3	4543.8	4640.4	4779.6	4925.7	4978.1	4818.2	4596.2	4417.0	3737.3
20°	4521.7	4538.3	4603.1	4729.9	4892.7	5104.9	5278.6	5194.5	4951.9	4753.4	3904.2
22.5°	4579.7	4593.5	4648.6	4783.7	4978.1	5244.1	5579.2	5561.3	5347.6	5091.1	4087.5
25°	4736.8	4758.9	4786.5	4867.8	5055.3	5386.2	5828.7	5952.8	5730.8	5444.0	4255.7
27.5°	5033.2	5051.1	5049.8	5060.8	5166.9	5508.9	6045.2	6340.2	6111.3	5801.1	4418.4
30°	5371.0	5377.9	5383.4	5358.6	5382.0	5634.3	6243.6	6723.4	6494.5	6167.8	4560.3
32.5°	5781.8	5795.6	5748.7	5685.3	5666.0	5820.4	6407.7	7106.7	6948.1	6540.0	4701.0
35°	6267.1	6302.9	6207.8	6096.1	6017.6	6087.9	6628.3	7498.2	7412.7	7015.7	4887.1
37.5°	6821.3	6865.4	6777.2	6557.9	6446.3	6465.6	6916.4	7982.1	8000.0	7557.4	5164.2
40°	7274.9	7332.7	7335.5	7025.3	6855.7	6877.8	7281.7	8503.1	8708.6	8227.5	5490.9
42.5°	7574.0	7630.5	7689.8	7507.8	7330.0	7455.4	7707.7	9068.4	9505.4	9040.8	5947.3
45°	7902.1	7953.1	7986.2	7903.4	7804.2	8129.6	8221.9	9669.4	10354.6	9949.3	6446.3
47.5°	8282.6	8339.1	8370.8	8292.2	8255.0	8721.0	8776.1	10230.5	11261.7	10831.6	6997.7
50°	8789.9	8832.6	8816.1	8766.5	8758.2	9174.6	9308.2	10755.8	12010.3	11781.5	7569.9
52.5°	9421.3	9472.3	9490.2	9420.0	9388.2	9498.5	9737.0	11234.2	12691.3	12597.6	8180.5
55°	9803.2	9884.5	10157.5	10267.8	10343.6	9917.6	10198.8	11762.1	13302.1	13457.8	8836.8
57.5°	9313.8	9418.6	10029.3	10580.7	11293.4	10965.3	10853.6	12313.6	13912.7	14291.9	9622.6
60°	8119.9	8143.4	8930.5	9946.5	11380.3	12312.2	12219.8	13190.3	14574.4	15132.8	10657.9
62.5°	5632.9	5682.5	6613.1	8234.3	10307.7	12797.5	14544.1	14704.0	15523.0	16391.5	12175.7
65°	2904.7	2839.9	3687.8	5175.2	7771.1	11644.9	16427.3	17487.4	17579.8	18360.1	14312.5
67.5°	1788.1	1817.0	2214.0	3021.9	4594.9	8463.2	16230.2	20888.4	20401.8	20776.7	16296.3
70°	1342.8	1378.6	1651.6	2067.9	2801.3	4838.9	13052.5	21712.8	22392.5	22296.0	16900.2
71°	1167.7	1204.9	1488.9	1881.8	2353.2	3734.6	10997.0	20849.8	22461.4	22444.9	16672.7
72.5°	995.3	1018.8	1240.7	1593.6	1983.8	2618.0	8261.9	18699.2	21503.3	22053.4	15860.7
75°	781.7	799.6	898.8	1215.9	1561.9	1607.4	4433.6	14018.9	17661.1	18708.8	13204.1
77.5°	636.9	649.3	700.3	903.0	1204.9	1138.7	2325.7	9124.9	11064.6	12119.2	7778.0
80°	506.0	519.8	550.1	612.1	903.0	812.0	1109.7	4623.8	5344.8	5333.8	3104.6
82.5°	392.9	397.1	432.8	449.4	617.6	576.3	601.0	1957.6	2168.5	2240.2	1120.8
85°	248.1	260.6	383.3	344.7	369.5	337.8	296.4	777.5	958.2	944.3	448.0
87.5°	75.8	79.9	129.6	146.1	164.0	147.5	108.9	228.9	279.8	303.3	111.7
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°	3078.4	3078.4	3078.4	3078.4	3078.4	3078.4	3078.4	3078.4	3078.4	3078.4	3078.4
2.5°	3096.3	3081.2	3027.4	2983.3	2941.9	2896.4	2857.8	2846.8	2837.1	2833.0	2831.6
5°	3125.3	3079.8	2973.6	2886.8	2817.9	2754.4	2714.4	2696.5	2678.6	2678.6	2684.1
7.5°	3166.6	3083.9	2919.9	2790.3	2703.4	2644.1	2615.2	2612.4	2616.6	2620.7	2622.1
10°	3212.1	3081.2	2841.3	2680.0	2602.8	2575.2	2576.6	2600.0	2622.1	2638.6	2641.4
12.5°	3256.3	3064.6	2748.9	2576.6	2527.0	2532.5	2571.1	2623.4	2666.2	2689.6	2691.0
15°	3305.8	3038.4	2637.2	2478.7	2462.1	2504.9	2576.6	2656.6	2721.3	2759.9	2764.1
17.5°	3347.2	2994.3	2520.1	2383.6	2404.3	2482.8	2582.1	2685.5	2764.1	2812.3	2820.6
20°	3394.1	2937.8	2398.7	2292.6	2351.9	2458.0	2571.1	2682.7	2764.1	2811.0	2822.0
22.5°	3431.3	2857.8	2282.9	2218.2	2305.0	2427.7	2533.9	2623.4	2689.6	2714.4	2731.0
25°	3446.5	2757.2	2174.1	2157.5	2267.8	2378.0	2449.8	2500.7	2521.4	2518.7	2525.6
27.5°	3438.2	2641.4	2080.3	2109.2	2220.9	2300.8	2336.7	2332.6	2295.4	2260.9	2277.4
30°	3403.8	2503.5	2001.7	2059.6	2160.2	2204.4	2198.8	2145.1	2074.8	2010.0	2014.1
32.5°	3341.7	2354.6	1928.7	2003.1	2074.8	2094.1	2056.9	1986.5	1885.9	1801.8	1789.4
35°	3289.3	2212.7	1863.9	1938.3	1989.3	1979.7	1943.8	1852.8	1761.8	1687.4	1675.0
37.5°	3281.1	2091.3	1801.8	1865.3	1894.2	1880.4	1836.3	1759.1	1726.0	1669.5	1662.5
40°	3325.2	2005.9	1738.4	1788.1	1801.8	1790.8	1742.6	1698.4	1728.8	1715.0	1715.0
42.5°	3445.1	1960.4	1681.9	1710.9	1721.9	1730.1	1695.7	1658.5	1695.7	1632.2	1611.6
45°	3635.3	1961.7	1630.9	1635.0	1668.1	1697.1	1673.6	1618.5	1599.2	1472.4	1447.5
47.5°	3915.2	2008.6	1589.5	1563.3	1622.6	1670.8	1637.8	1557.8	1472.4	1388.3	1373.1
50°	4241.9	2092.7	1552.3	1488.9	1561.9	1637.8	1613.0	1519.2	1431.0	1380.0	1370.3
52.5°	4604.5	2198.8	1506.8	1406.2	1487.5	1622.6	1618.5	1513.7	1392.4	1357.9	1349.7
55°	5052.5	2303.7	1450.3	1309.6	1421.3	1610.2	1603.3	1468.2	1384.1	1359.3	1356.5
57.5°	5573.6	2455.3	1368.9	1211.8	1345.5	1559.2	1544.0	1440.6	1356.5	1338.6	1337.2
60°	6413.2	2691.0	1253.1	1122.2	1268.3	1469.6	1488.9	1393.7	1312.4	1308.3	1306.9
62.5°	7517.4	3021.9	1133.2	1029.8	1178.7	1353.8	1408.9	1330.3	1265.6	1286.2	1289.0
65°	9042.2	3300.3	1009.1	951.3	1079.4	1242.1	1333.1	1271.0	1213.2	1253.1	1253.1
67.5°	10036.2	3305.8	896.1	869.9	978.8	1148.3	1253.1	1200.7	1145.6	1213.2	1215.9
70°	9829.4	2896.4	802.3	784.4	881.0	1047.7	1164.9	1123.5	1060.1	1120.8	1098.7
71°	9495.8	2668.9	765.1	751.4	842.4	999.5	1123.5	1089.1	1025.7	1065.7	1053.2
72.5°	8963.6	2317.4	704.5	707.2	784.4	938.8	1065.7	1029.8	966.4	988.5	984.3
75°	7576.8	2023.7	602.4	614.9	674.2	835.5	949.9	922.3	857.5	857.5	853.3
77.5°	4736.8	1414.4	500.4	507.3	572.1	715.5	816.1	792.7	730.6	709.9	704.5
80°	1767.4	730.6	391.5	399.8	439.7	563.8	675.5	653.5	590.1	566.6	544.6
82.5°	668.6	366.7	288.1	281.3	324.0	430.1	529.4	503.2	453.6	397.1	380.5
85°	252.3	182.0	176.5	170.9	190.3	255.0	328.1	322.6	270.2	230.2	226.1
87.5°	66.2	59.3	68.9	51.0	53.8	48.2	49.6	20.7	9.6	4.1	2.7
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)