

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: P454824

Luminaire Tested: **GALN-SA6A-722-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-722-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15608 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

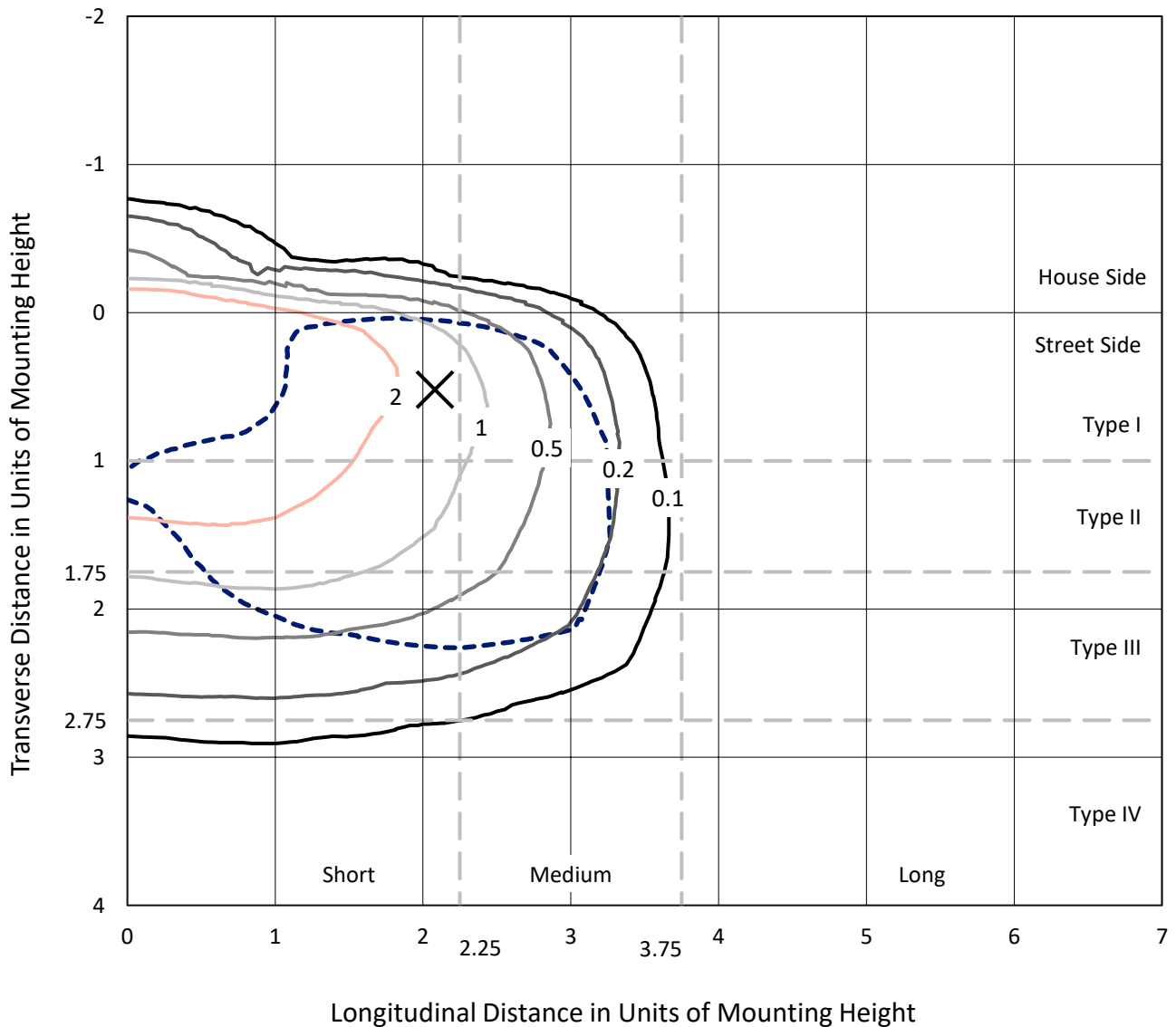
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

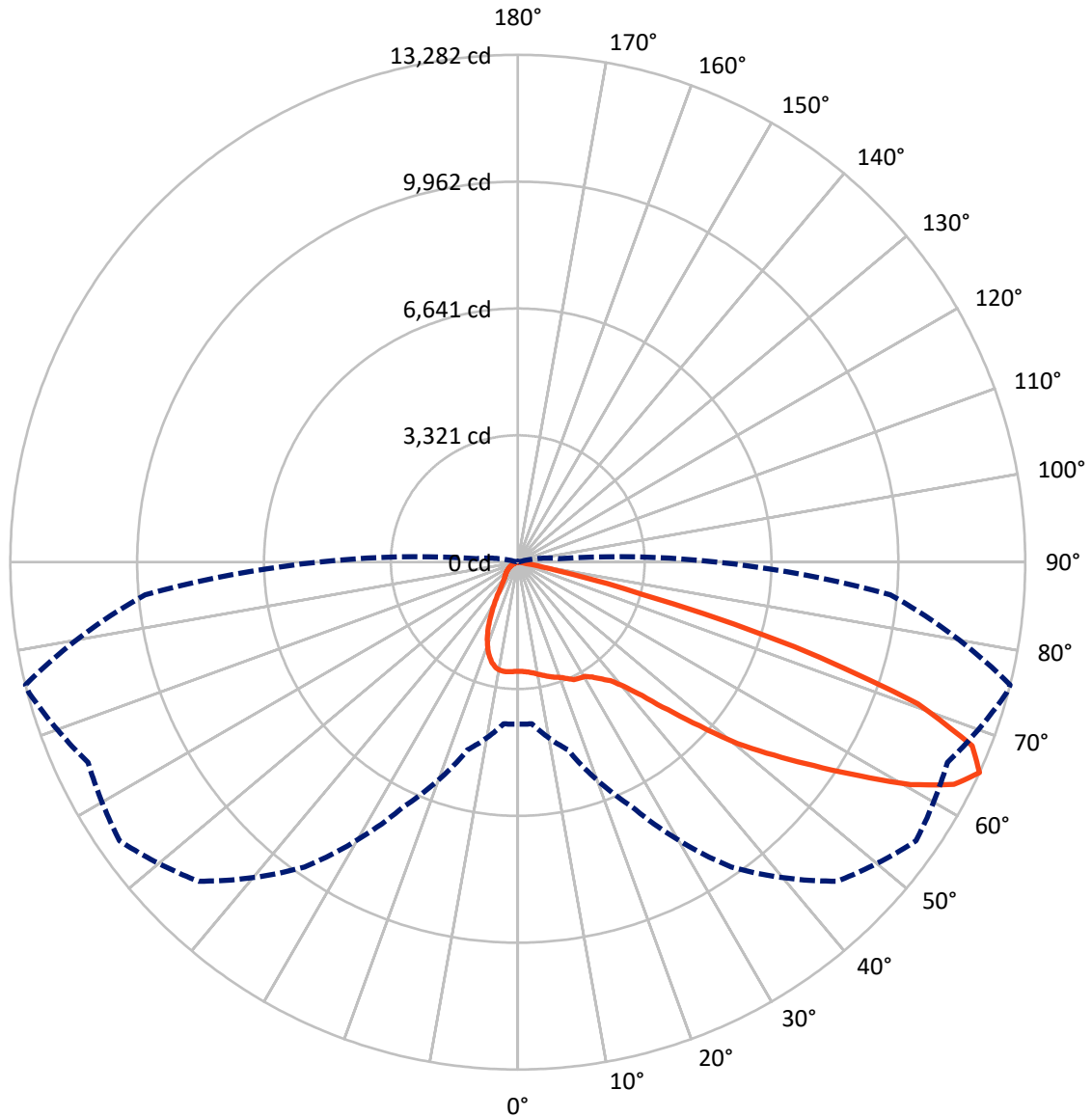
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



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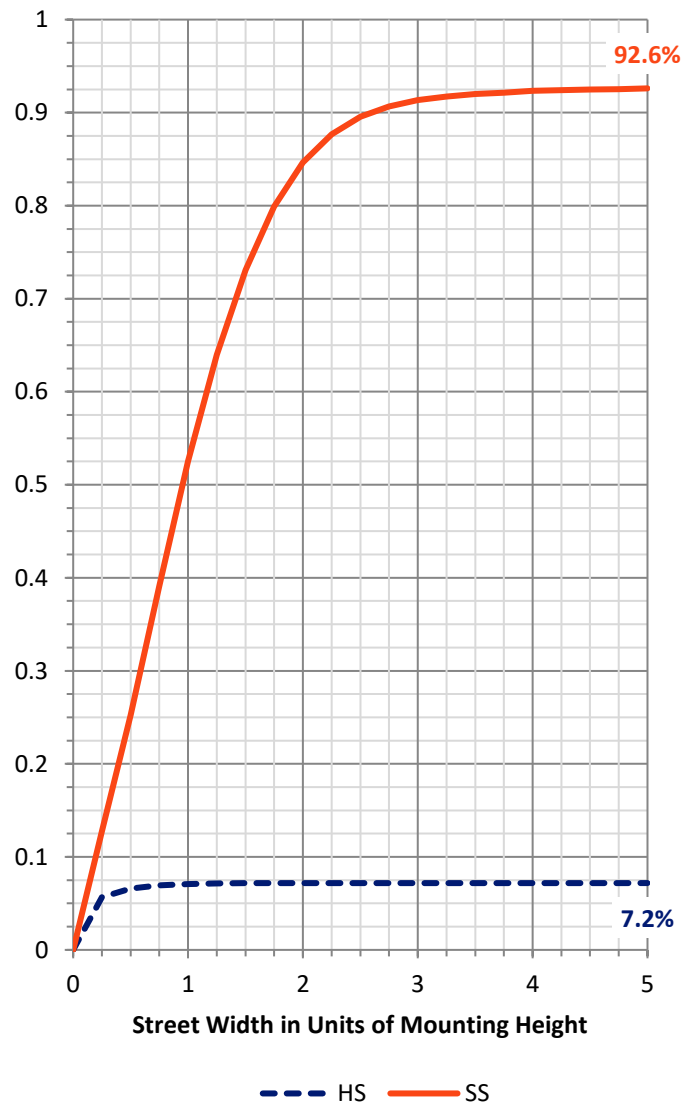
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1127.2	0.0	1127.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	14480.8	0.0	14480.8
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	15608.0	0.0	15608.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.2	1.5
10°-20°	523.7	3.4
20°-30°	843.9	5.4
30°-40°	1467.3	9.4
40°-50°	2424.6	15.5
50°-60°	3745.6	24.0
60°-70°	4573.9	29.3
70°-80°	1735.9	11.1
80°-90°	57.9	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°	15608.0	100.0
0°-180°	15608.0	100.0



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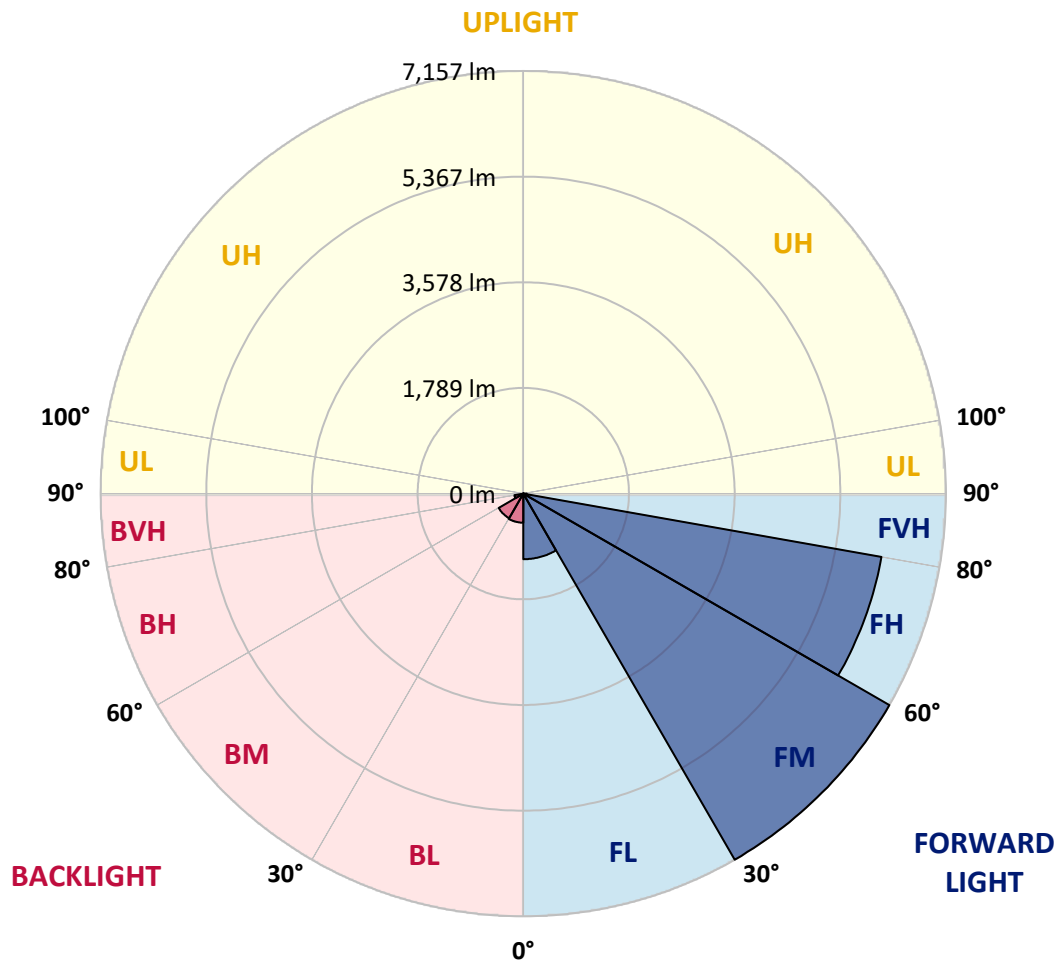
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1110.3	7.1			
FM (30°-60°)	7156.5	45.9			
FH (60°-80°)	6156.8	39.4			G3/7500
FVH (80°-90°)	57.1	0.4			G1/100
BL (0°-30°)	492.5	3.2	B1/500		
BM (30°-60°)	481.0	3.1	B1/1000		
BH (60°-80°)	152.9	1.0	B1/500		G1/500
BVH (80°-90°)	0.8	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2
2.5°	2728.5	2729.6	2736.2	2752.7	2778.1	2799.0	2816.6	2845.3	2865.1	2867.3	2873.9
5°	2540.0	2526.8	2540.0	2583.0	2621.6	2680.0	2751.6	2823.2	2887.2	2891.6	2922.4
7.5°	2328.5	2339.5	2360.4	2404.5	2477.2	2566.5	2670.1	2797.9	2919.1	2930.1	2990.7
10°	2113.6	2137.8	2172.0	2239.2	2340.6	2456.3	2597.3	2780.3	2969.8	2985.2	3089.9
12.5°	1915.2	1926.2	1968.1	2058.5	2184.1	2347.2	2542.2	2770.3	3026.0	3044.7	3195.7
15°	1763.2	1777.5	1813.8	1895.4	2035.3	2244.7	2497.1	2767.0	3081.1	3107.6	3301.5
17.5°	1734.5	1743.3	1758.7	1813.8	1936.2	2163.2	2456.3	2765.9	3134.0	3166.0	3399.6
20°	1852.4	1844.7	1829.3	1823.8	1891.0	2100.4	2426.5	2774.8	3184.7	3221.1	3503.2
22.5°	2147.7	2157.7	2067.3	1960.4	1938.4	2090.4	2422.1	2816.6	3265.1	3308.1	3618.9
25°	2774.8	2698.7	2557.7	2302.0	2109.2	2151.0	2471.7	2915.8	3358.8	3406.2	3723.6
27.5°	3467.9	3444.8	3225.5	2804.5	2445.3	2278.9	2559.9	2991.8	3389.7	3438.1	3783.1
30°	4148.9	4176.5	3925.2	3460.2	2933.4	2515.8	2642.5	3020.5	3417.2	3467.9	3859.1
32.5°	4780.3	4813.4	4593.0	4132.4	3508.7	2925.7	2784.7	3131.8	3532.9	3584.7	3985.8
35°	5277.3	5281.7	5115.3	4748.4	4136.8	3423.8	3092.1	3326.8	3689.4	3750.0	4120.3
37.5°	5733.5	5726.9	5531.9	5215.6	4660.2	3918.6	3478.9	3551.6	3867.9	3930.7	4314.2
40°	6071.8	6076.3	6013.4	5715.9	5148.4	4375.9	3785.3	3762.1	4167.6	4265.7	4596.3
42.5°	6297.8	6338.5	6369.4	6218.4	5762.2	4939.0	4255.8	4212.8	4687.8	4769.3	4995.2
45°	6480.7	6553.4	6707.7	6700.0	6351.7	5630.0	4901.6	4813.4	5425.0	5512.0	5503.2
47.5°	6614.0	6687.8	6943.5	7097.8	6906.0	6300.0	5713.7	5637.7	6305.5	6400.2	6064.1
50°	6682.3	6770.5	7096.7	7395.3	7339.1	6945.7	6639.4	6643.8	7368.9	7460.3	6714.3
52.5°	6522.6	6637.2	7178.2	7716.0	7825.1	7563.9	7506.6	7652.1	8315.5	8393.7	7301.6
55°	6012.3	6156.7	7066.9	7989.3	8388.2	8293.4	8491.8	8713.3	9350.2	9400.9	7904.4
57.5°	5689.5	5842.6	6738.5	8221.8	9064.8	9210.3	9524.3	9686.3	10418.0	10546.9	8596.5
60°	5417.3	5537.4	6468.6	8271.4	9752.4	10332.1	10637.3	10804.8	11736.0	11819.7	9357.9
62.5°	4964.4	5102.1	6012.3	7925.4	10098.4	11230.2	11862.7	11787.8	12755.3	12813.7	9825.2
65°	4236.0	4248.1	5086.7	7055.9	9741.4	11813.1	12723.3	12409.3	13242.4	13282.0	9788.8
67.5°	3161.5	3278.4	3913.1	5546.2	8228.4	11315.0	13002.1	12425.8	12934.9	12824.7	9011.9
70°	2036.4	2125.7	2652.4	3845.9	5933.0	9442.8	12077.6	11574.0	11352.5	11107.8	7376.6
72.5°	940.0	1054.6	1575.8	2197.3	3518.6	6726.4	9804.2	9403.1	8171.1	7567.2	4688.9
75°	409.9	438.6	778.0	1159.3	1649.6	3557.2	6464.1	5837.1	3690.5	3370.9	1876.7
77.5°	250.1	268.9	407.7	621.5	648.0	1355.4	3482.2	2546.7	1140.5	1006.1	509.1
80°	169.7	190.6	296.4	325.1	221.5	378.0	1306.9	679.9	230.3	220.4	109.1
82.5°	82.6	104.7	219.3	181.8	95.9	121.2	380.2	145.5	67.2	62.8	38.6
85°	12.1	20.9	123.4	119.0	43.0	28.7	67.2	36.4	23.1	22.0	17.6
87.5°	0.0	0.0	41.9	18.7	4.4	4.4	7.7	7.7	8.8	7.7	8.8
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°	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2
2.5°	2877.2	2882.8	2861.8	2832.1	2800.1	2768.1	2723.0	2682.2	2657.9	2672.3	2637.0
5°	2929.0	2924.6	2869.5	2779.2	2659.1	2514.7	2371.4	2249.1	2209.4	2149.9	2143.3
7.5°	3000.7	2988.5	2871.7	2664.6	2393.5	2122.4	1857.9	1682.7	1582.4	1497.6	1499.8
10°	3100.9	3065.7	2846.4	2462.9	2016.6	1607.8	1270.6	1039.2	938.9	906.9	881.6
12.5°	3204.5	3136.2	2775.9	2190.7	1570.3	1098.7	772.5	631.4	569.7	549.9	547.7
15°	3297.1	3189.1	2652.4	1863.4	1141.6	702.0	526.7	480.5	472.7	473.8	472.7
17.5°	3388.6	3231.0	2481.6	1516.3	775.8	503.6	452.9	441.9	445.2	449.6	448.5
20°	3464.6	3239.8	2263.4	1157.1	548.8	441.9	425.4	423.2	426.5	429.8	429.8
22.5°	3547.2	3246.4	2004.5	801.1	448.5	411.0	402.2	402.2	406.6	411.0	412.1
25°	3608.9	3210.0	1694.8	575.2	395.6	381.3	376.9	378.0	382.4	384.6	383.5
27.5°	3618.9	3107.6	1366.4	440.8	359.2	344.9	340.5	344.9	339.4	342.7	340.5
30°	3627.7	2977.5	1033.6	371.4	326.2	304.1	297.5	290.9	286.5	281.0	279.9
32.5°	3655.2	2824.3	754.8	333.9	295.3	271.1	255.7	236.9	222.6	218.2	217.1
35°	3667.4	2640.3	554.3	304.1	267.8	241.3	213.8	187.3	166.4	158.7	164.2
37.5°	3713.6	2461.8	429.8	282.1	243.5	210.5	175.2	142.2	122.3	117.9	120.1
40°	3808.4	2267.9	360.3	263.4	222.6	181.8	138.8	106.9	93.7	89.3	88.2
42.5°	3960.5	2075.0	320.7	245.7	201.7	153.2	109.1	83.7	72.7	69.4	69.4
45°	4145.6	1889.9	293.1	227.0	179.6	123.4	86.0	67.2	60.6	58.4	58.4
47.5°	4389.1	1727.9	270.0	208.3	155.4	98.1	69.4	58.4	54.0	55.1	56.2
50°	4636.0	1607.8	244.6	187.3	127.8	80.4	59.5	51.8	50.7	51.8	51.8
52.5°	4822.2	1537.2	210.5	158.7	100.3	67.2	52.9	48.5	47.4	45.2	45.2
55°	5073.5	1521.8	167.5	128.9	79.3	56.2	47.4	44.1	40.8	38.6	37.5
57.5°	5396.3	1539.5	128.9	100.3	61.7	46.3	41.9	36.4	32.0	27.5	27.5
60°	5596.9	1499.8	100.3	77.1	45.2	37.5	32.0	26.4	20.9	17.6	16.5
62.5°	5533.0	1332.3	79.3	57.3	32.0	27.5	20.9	17.6	12.1	8.8	7.7
65°	5203.5	1075.5	63.9	39.7	23.1	16.5	11.0	11.0	5.5	1.1	0.0
67.5°	4554.4	796.7	50.7	26.4	13.2	7.7	5.5	3.3	0.0	0.0	0.0
70°	3707.0	575.2	39.7	16.5	7.7	5.5	2.2	1.1	0.0	0.0	0.0
72.5°	2353.8	329.5	30.9	9.9	5.5	2.2	0.0	0.0	0.0	0.0	0.0
75°	910.2	128.9	20.9	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	257.9	60.6	12.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	67.2	26.4	6.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.0	11.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.7	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	1.1	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)