

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: P528422

Luminaire Tested: **GALN-SA3C-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16032 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

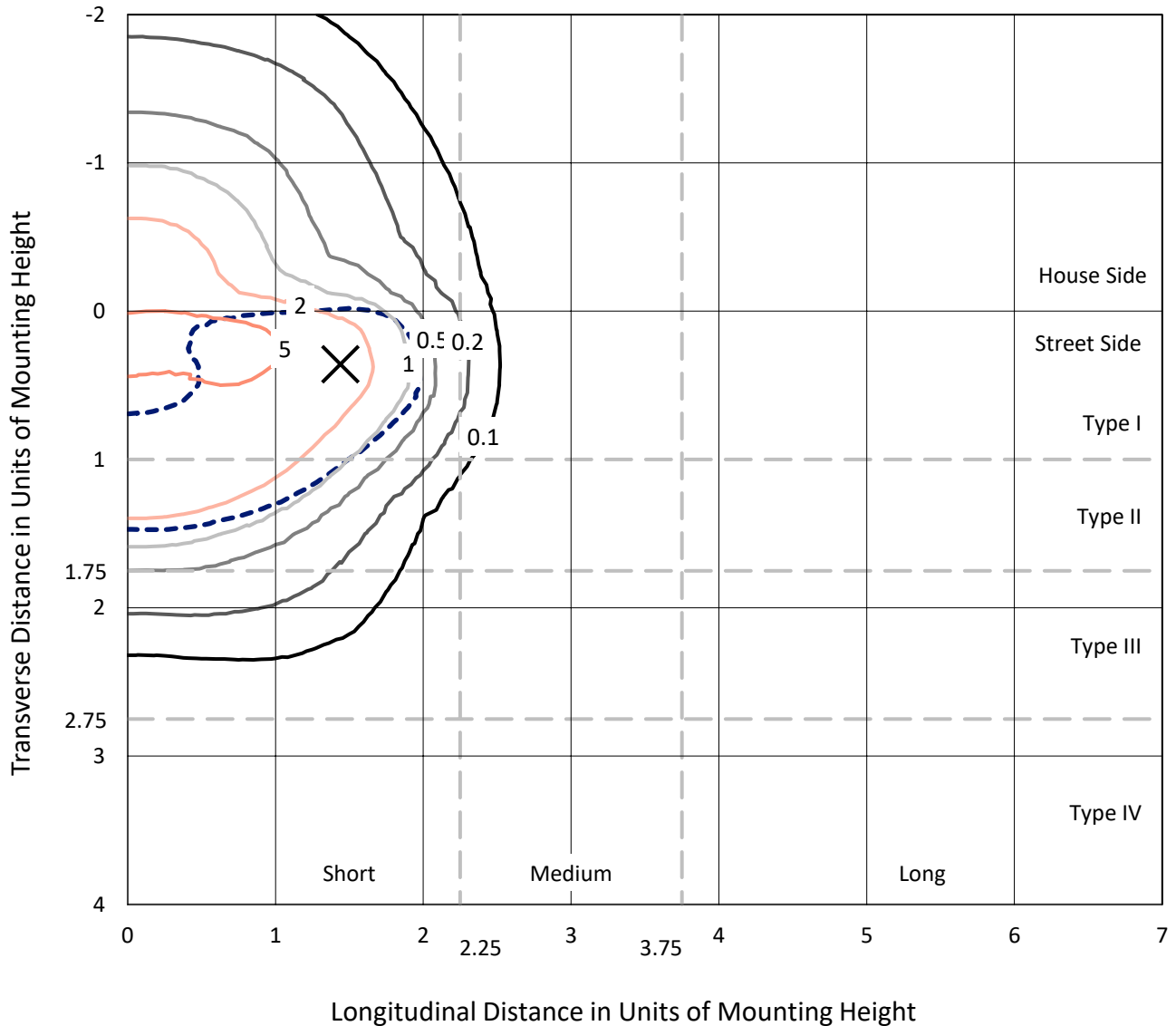
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

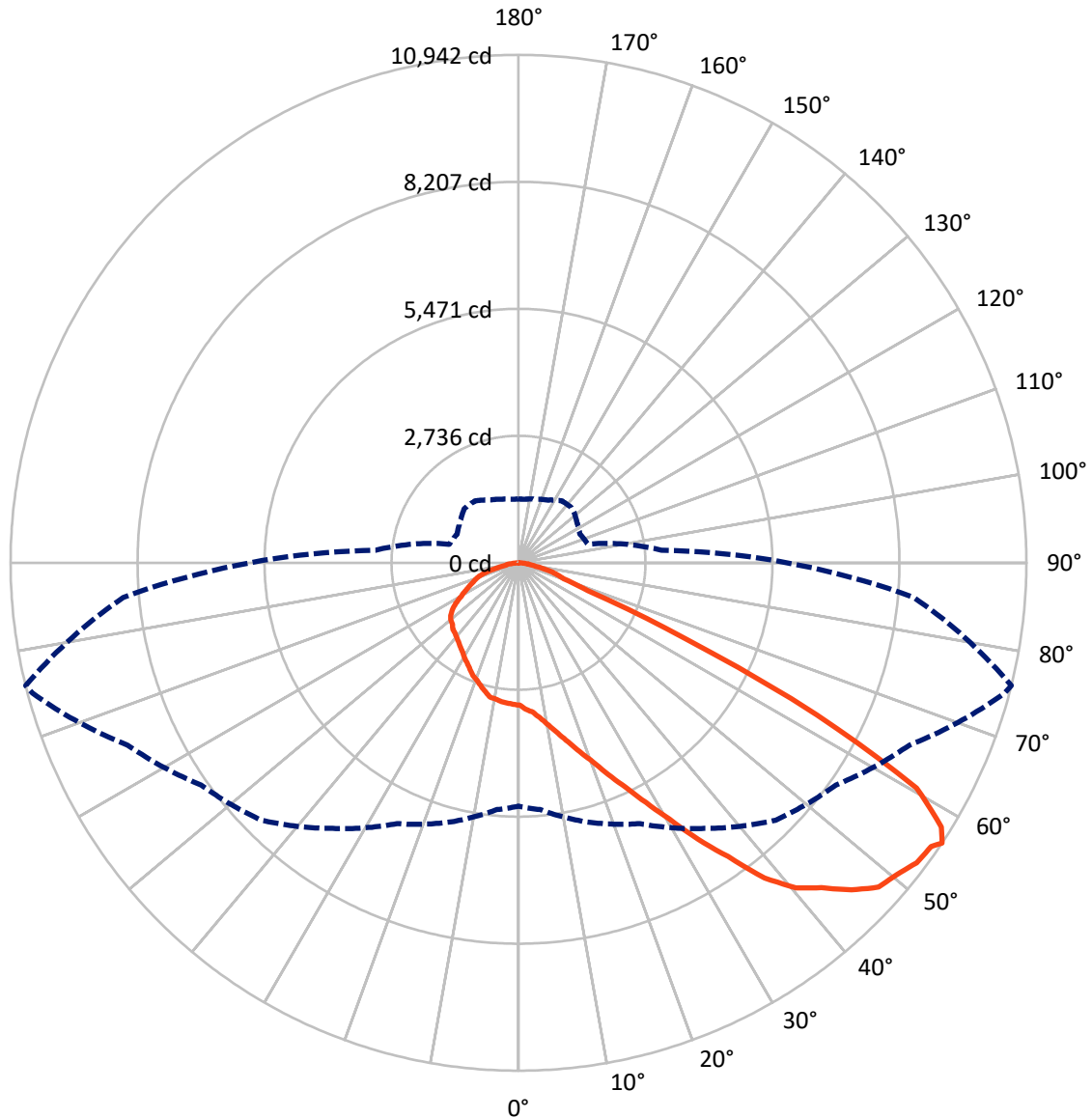
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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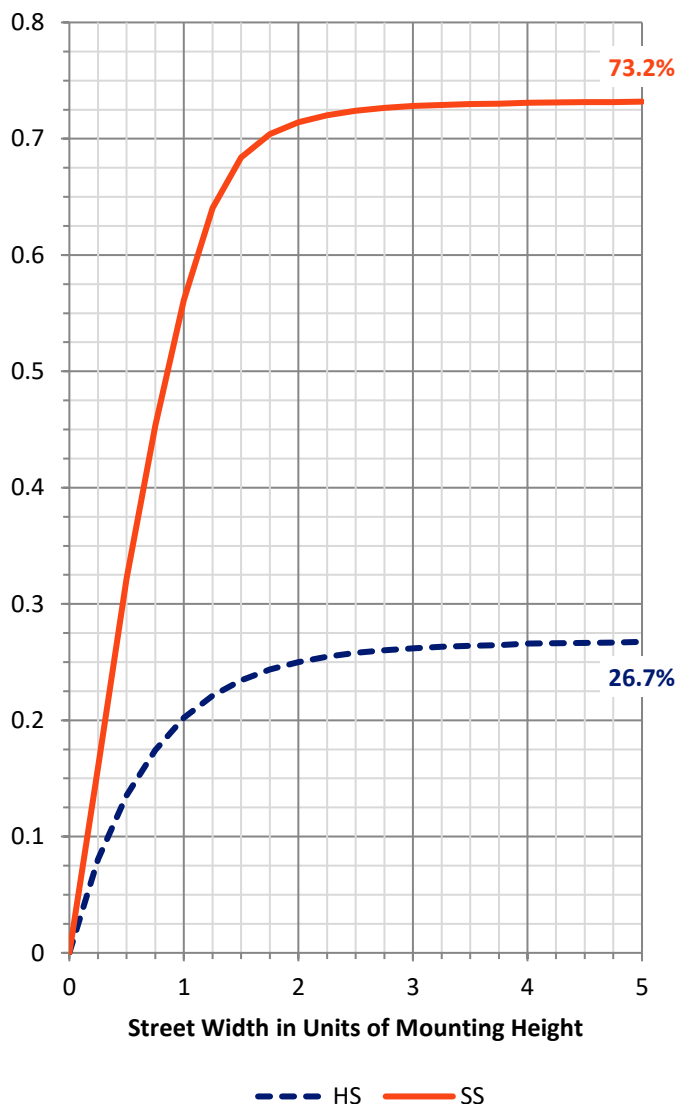
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4310.5	0.0	4310.5
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	11721.5	0.0	11721.5
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	16032.0	0.0	16032.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.2	1.9
10°-20°	955.6	6.0
20°-30°	1671.2	10.4
30°-40°	2616.7	16.3
40°-50°	3806.5	23.7
50°-60°	4183.6	26.1
60°-70°	1867.4	11.6
70°-80°	539.4	3.4
80°-90°	87.5	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°	16032.0	100.0
0°-180°	16032.0	100.0

**Coefficient of Utilization**

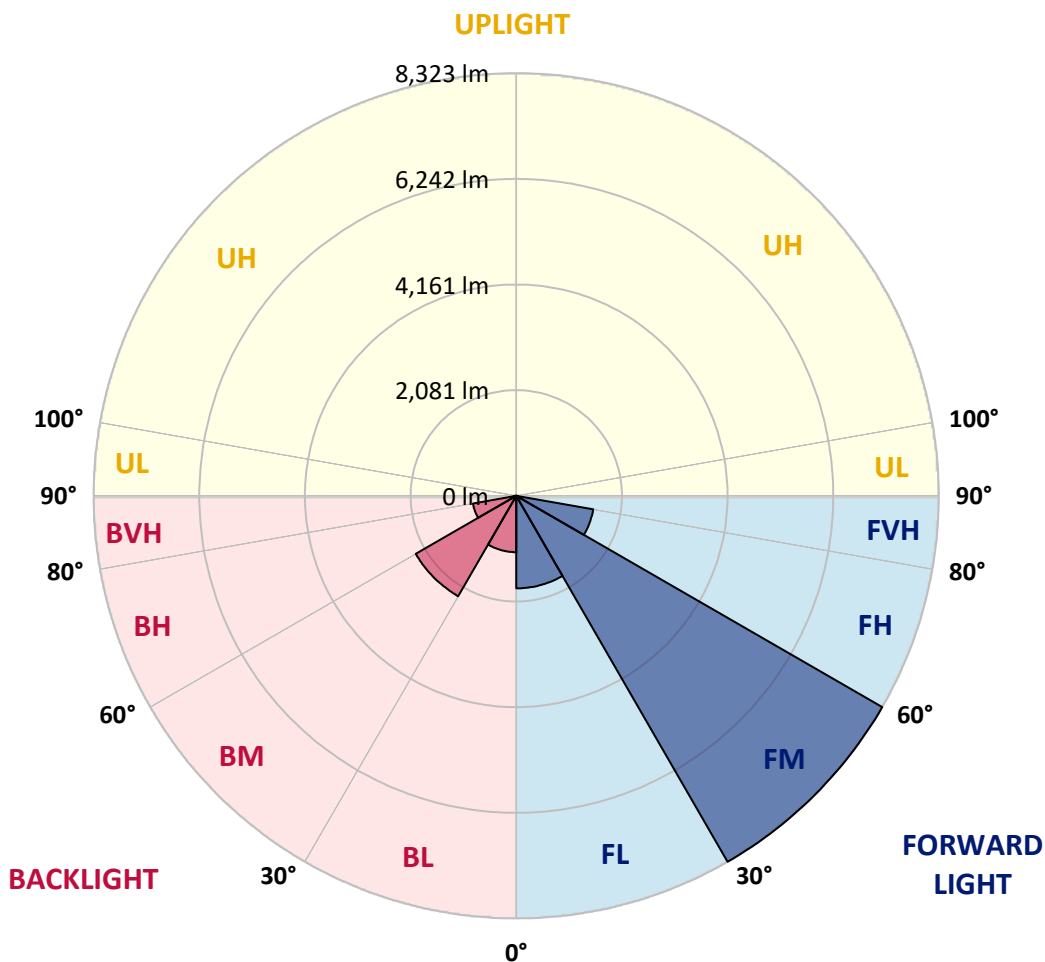


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1821.9	11.4			
FM (30°-60°)	8322.5	51.9			
FH (60°-80°)	1539.5	9.6			G1/1800
FVH (80°-90°)	37.7	0.2			G1/100
BL (0°-30°)	1109.2	6.9	B3/2500		
BM (30°-60°)	2284.2	14.2	B2/2500		
BH (60°-80°)	867.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	49.8	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°	55°	65°	75°	76°	85°
0°	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5
2.5°	3379.3	3325.2	3321.1	3306.5	3314.8	3277.4	3237.9	3186.0	3131.9	3165.2	3086.2
5°	3616.2	3543.4	3572.5	3522.7	3528.9	3479.0	3398.0	3337.7	3271.2	3231.7	3175.6
7.5°	3699.3	3705.5	3726.3	3718.0	3676.4	3676.4	3622.4	3516.4	3400.0	3377.2	3283.7
10°	3811.5	3813.6	3790.8	3797.0	3855.2	3828.2	3780.4	3734.6	3585.0	3558.0	3391.7
12.5°	3851.0	3813.6	3851.0	3884.3	3952.9	3990.3	3979.9	3946.6	3786.6	3767.9	3524.7
15°	3857.3	3834.4	3865.6	3940.4	4000.7	4158.6	4237.6	4214.7	4002.7	4004.8	3674.4
17.5°	3828.2	3859.3	3871.8	3936.2	4075.5	4223.0	4451.6	4482.8	4308.2	4281.2	3863.5
20°	3867.6	3844.8	3861.4	3919.6	4104.6	4335.3	4634.5	4840.3	4595.0	4576.3	4058.8
22.5°	4019.4	3988.2	3984.0	4021.4	4154.4	4393.4	4827.8	5197.7	4944.2	4954.6	4302.0
25°	4137.8	4154.4	4139.9	4137.8	4221.0	4480.7	5083.4	5623.8	5418.0	5357.8	4588.8
27.5°	4341.5	4381.0	4351.9	4391.4	4372.7	4611.7	5266.3	6095.5	5929.3	5848.2	4848.6
30°	4624.1	4644.9	4617.9	4617.9	4561.8	4794.6	5432.6	6588.1	6519.5	6409.4	5154.1
32.5°	4996.1	5027.3	4973.3	4942.1	4933.8	5066.8	5731.9	7074.4	7190.8	7097.3	5559.4
35°	5488.7	5470.0	5405.6	5376.5	5264.2	5484.5	6176.6	7633.5	7939.0	7772.7	6049.8
37.5°	5923.1	5894.0	5889.8	5727.7	5754.7	5935.5	6554.8	8057.4	8664.3	8616.5	6567.3
40°	6328.3	6355.3	6399.0	6307.5	6266.0	6465.5	6995.4	8381.6	9227.5	9208.8	6966.3
42.5°	6762.7	6737.7	6814.6	6737.7	6675.4	6958.0	7473.4	8606.1	9722.1	9568.3	7384.1
45°	7392.4	7313.4	7340.4	7346.7	7300.9	7404.9	7670.9	8768.2	10069.2	10052.6	7689.6
47.5°	7918.2	7920.3	7874.5	7839.2	7700.0	7803.9	7891.2	8870.0	10468.2	10441.2	7808.0
50°	8113.5	8086.5	8219.5	8296.4	8304.7	8092.8	8063.7	8926.1	10678.1	10559.7	7926.5
52.5°	7411.1	7436.0	7645.9	8103.2	8367.1	8390.0	8265.3	9042.5	10763.3	10738.4	8022.1
55°	5964.6	6085.2	6430.1	6958.0	7583.6	8271.5	8483.5	9163.1	10809.0	10788.3	8446.1
56°	5243.5	5337.0	5785.9	6199.5	6985.0	7841.3	8346.3	9291.9	10844.4	10942.1	8545.8
57.5°	4221.0	4329.0	4651.2	5120.8	6047.7	7022.5	7968.1	9134.0	10707.2	10744.6	8618.6
60°	2639.4	2649.8	3036.3	3346.0	3998.6	4950.4	6081.0	7947.3	9909.2	9855.1	7741.5
62.5°	1731.2	1733.3	2084.5	2338.0	2635.2	2853.5	3578.8	5270.5	7311.3	7215.7	5511.6
65°	1215.8	1242.8	1515.1	1853.8	1974.4	1860.0	1837.2	2778.6	4083.8	3946.6	2961.5
67.5°	889.5	891.6	1132.7	1496.3	1670.9	1415.3	1149.3	1357.1	1616.9	1612.7	1371.7
70°	588.1	613.1	798.1	1118.1	1317.6	1136.8	939.4	970.5	1028.7	1028.7	1020.4
72.5°	342.9	365.8	488.4	708.7	739.9	710.8	744.0	831.3	868.7	866.6	856.2
75°	195.4	205.7	232.8	295.1	367.9	434.4	546.6	629.7	667.1	690.0	663.0
77.5°	114.3	120.5	137.2	168.3	191.2	234.8	297.2	355.4	405.3	399.0	403.2
80°	60.3	60.3	76.9	99.8	133.0	166.3	197.4	230.7	257.7	263.9	270.2
82.5°	35.3	37.4	49.9	72.7	95.6	118.5	151.7	174.6	199.5	201.6	205.7
85°	18.7	20.8	31.2	47.8	64.4	72.7	74.8	70.7	76.9	72.7	83.1
87.5°	6.2	6.2	10.4	8.3	8.3	10.4	12.5	12.5	16.6	16.6	16.6
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°	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5
2.5°	3084.1	3084.1	3048.8	2982.3	2971.9	2944.9	2920.0	2917.9	2899.2	2882.6	2874.2
5°	3142.3	3077.9	3026.0	2965.7	2895.0	2861.8	2824.4	2782.8	2766.2	2782.8	2780.7
7.5°	3208.8	3154.8	2998.9	2886.7	2805.7	2772.4	2730.8	2687.2	2691.4	2691.4	2662.3
10°	3273.3	3200.5	2951.1	2807.7	2689.3	2664.3	2641.5	2658.1	2678.9	2683.0	2664.3
12.5°	3381.3	3217.2	2928.3	2728.8	2653.9	2599.9	2614.5	2660.2	2703.8	2691.4	2705.9
15°	3462.4	3231.7	2824.4	2647.7	2554.2	2579.1	2631.1	2662.3	2735.0	2726.7	2741.2
17.5°	3541.4	3240.0	2722.5	2539.6	2500.2	2568.7	2608.2	2697.6	2720.4	2770.3	2789.0
20°	3703.5	3256.6	2618.6	2473.1	2460.7	2539.6	2608.2	2649.8	2699.7	2743.3	2743.3
22.5°	3786.6	3248.3	2550.0	2385.8	2425.3	2475.2	2537.6	2608.2	2608.2	2649.8	2651.9
25°	3890.5	3215.1	2442.0	2344.3	2373.4	2421.2	2491.8	2466.9	2493.9	2493.9	2527.2
27.5°	4009.0	3144.4	2348.4	2269.5	2327.7	2379.6	2390.0	2373.4	2342.2	2338.0	2325.6
30°	4104.6	3057.1	2279.9	2244.5	2292.3	2321.4	2288.2	2252.8	2198.8	2194.6	2165.6
32.5°	4235.5	2949.1	2194.6	2182.2	2236.2	2238.3	2227.9	2173.9	2094.9	2061.6	2028.4
35°	4455.8	2886.7	2130.2	2148.9	2165.6	2159.3	2140.6	2082.4	2003.4	1988.9	1976.4
37.5°	4617.9	2841.0	2063.7	2086.6	2101.1	2109.4	2053.3	1988.9	1991.0	1961.9	1953.6
40°	4800.8	2811.9	2009.7	2020.1	2022.2	2049.2	1980.6	1949.4	1964.0	1945.3	1957.7
42.5°	5035.6	2820.2	1953.6	1945.3	1984.7	1974.4	1941.1	1899.5	1907.8	1851.7	1860.0
45°	5160.3	2876.3	1920.3	1882.9	1926.6	1924.5	1880.8	1841.3	1791.5	1683.4	1687.6
47.5°	5243.5	2890.9	1841.3	1816.4	1862.1	1889.1	1839.3	1747.8	1677.2	1600.3	1581.6
50°	5328.7	2917.9	1803.9	1752.0	1770.7	1835.1	1772.8	1685.5	1616.9	1548.3	1558.7
52.5°	5403.5	2969.8	1731.2	1654.3	1687.6	1758.2	1725.0	1619.0	1544.1	1488.0	1471.4
55°	5736.0	3086.2	1608.6	1508.8	1587.8	1677.2	1658.5	1529.6	1448.5	1419.5	1415.3
56°	5788.0	3090.4	1544.1	1458.9	1531.7	1650.1	1627.3	1490.1	1417.4	1371.7	1373.7
57.5°	5796.3	3040.5	1452.7	1413.2	1475.6	1610.7	1581.6	1458.9	1359.2	1317.6	1305.1
60°	5100.1	2373.4	1338.4	1313.5	1386.2	1490.1	1479.7	1373.7	1261.5	1213.7	1236.6
62.5°	3476.9	1739.5	1249.0	1244.9	1282.3	1384.1	1357.1	1261.5	1168.0	1136.8	1122.3
65°	2024.2	1319.7	1161.7	1145.1	1176.3	1230.3	1249.0	1149.3	1051.6	1030.8	1024.6
67.5°	1195.0	1091.1	1049.5	1022.5	1012.1	1045.4	1059.9	1001.7	904.0	874.9	899.9
70°	999.6	970.5	972.6	926.9	902.0	879.1	866.6	814.7	733.6	696.2	685.8
72.5°	862.5	850.0	841.7	800.1	777.3	725.3	671.3	619.3	559.1	527.9	530.0
75°	658.8	654.7	658.8	638.0	598.5	557.0	507.1	440.6	394.9	355.4	363.7
77.5°	392.8	405.3	411.5	403.2	386.6	349.1	318.0	274.3	230.7	199.5	195.4
80°	270.2	280.6	291.0	280.6	263.9	236.9	203.7	170.4	139.2	122.6	118.5
82.5°	205.7	216.1	222.4	212.0	191.2	162.1	139.2	116.4	91.4	74.8	70.7
85°	74.8	85.2	83.1	99.8	108.1	103.9	89.4	68.6	52.0	37.4	35.3
87.5°	20.8	18.7	20.8	20.8	20.8	18.7	16.6	16.6	16.6	10.4	8.3
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)