

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: P650734

Luminaire Tested: **GALN-SA2C-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6939.9 lumens  
Efficiency: N/A  
Efficacy: 64.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

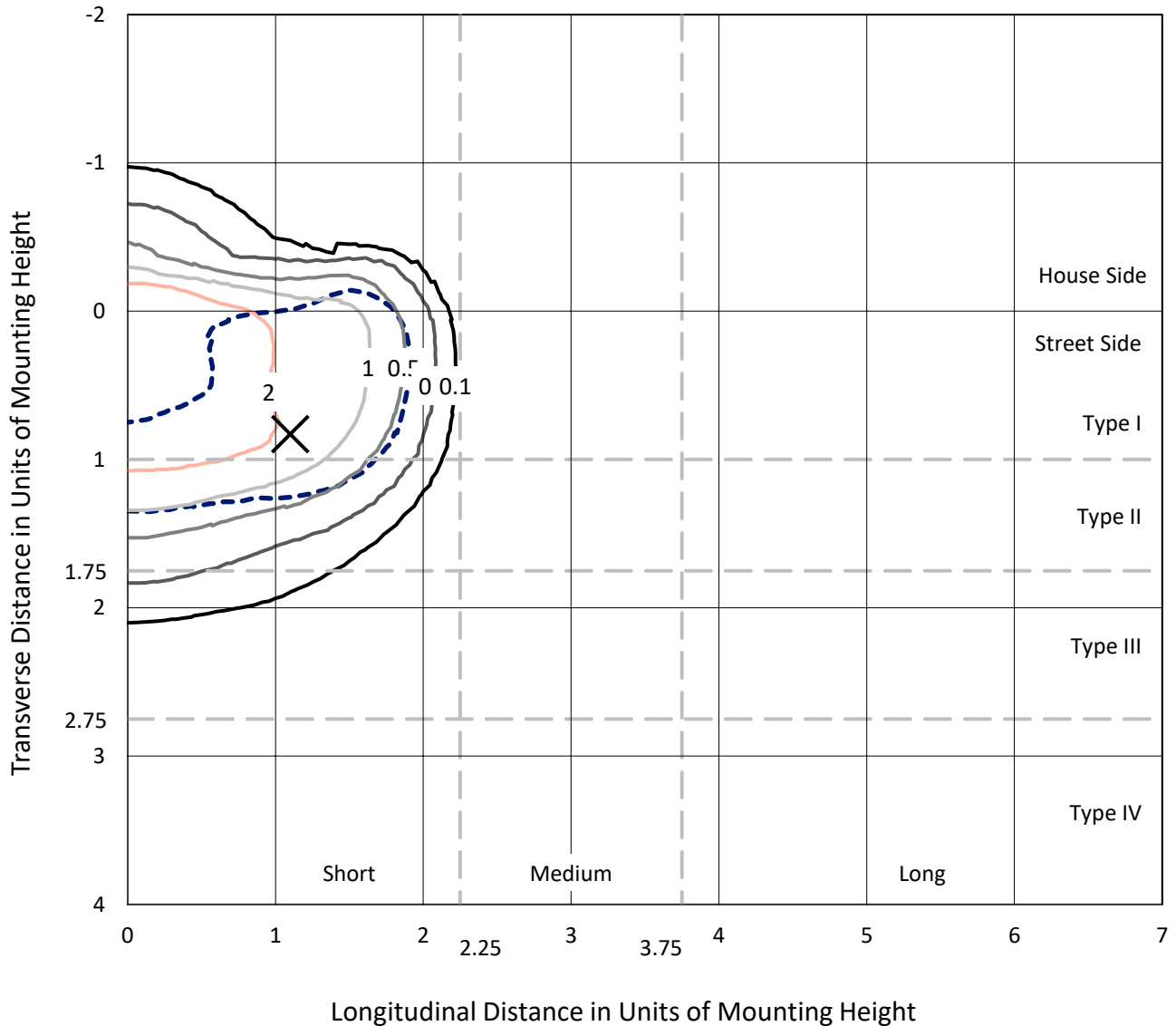
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

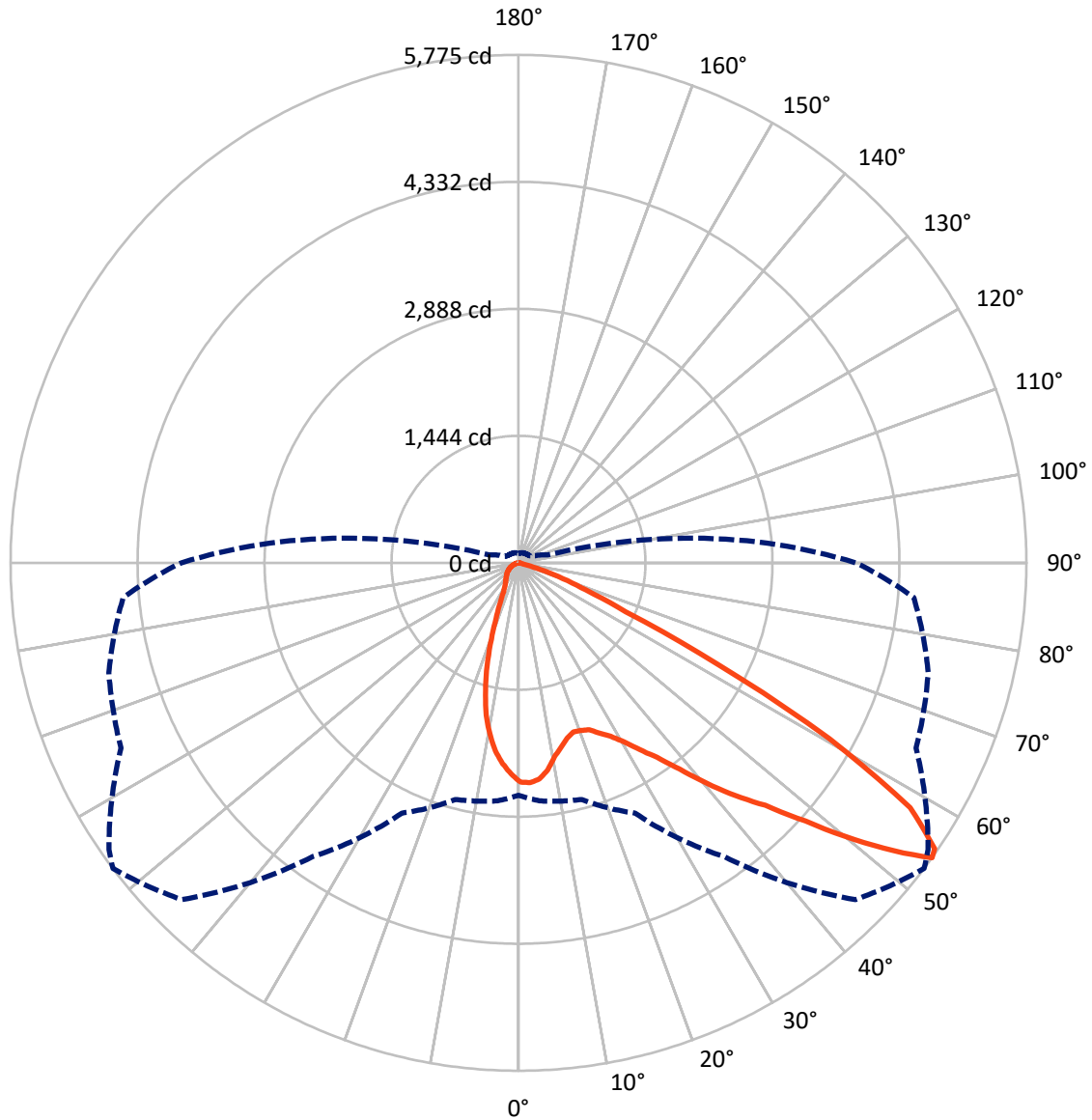
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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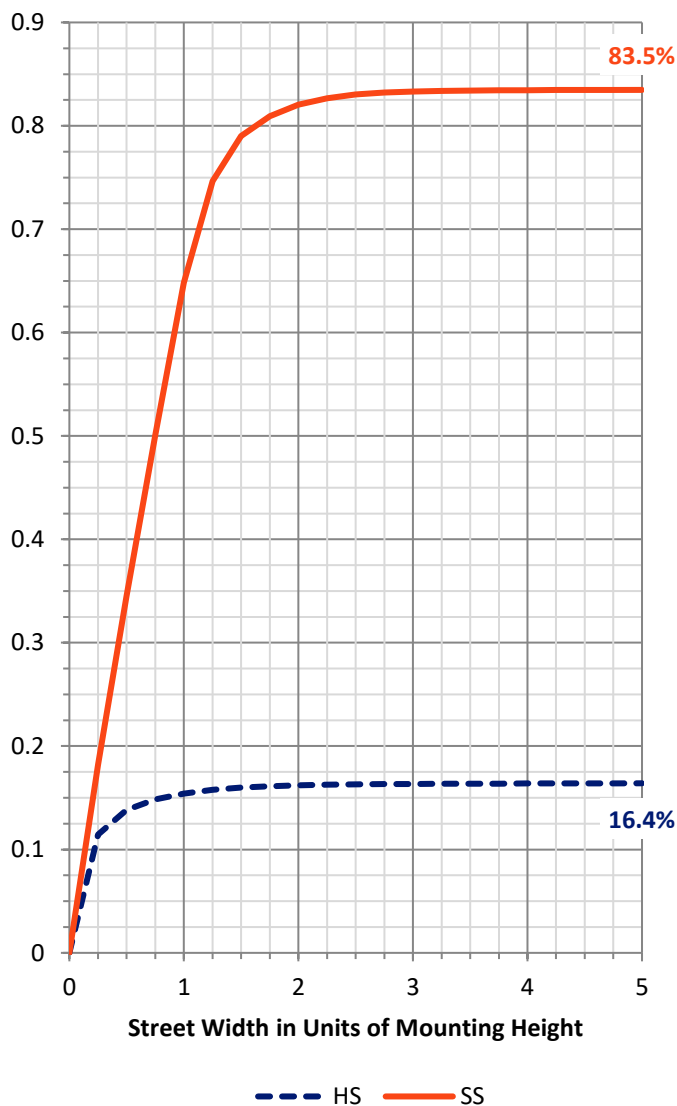
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1148.2	0.0	1148.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	5791.7	0.0	5791.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	6939.9	0.0	6939.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.9	3.1
10°-20°	490.3	7.1
20°-30°	696.9	10.0
30°-40°	1075.4	15.5
40°-50°	1686.2	24.3
50°-60°	1958.8	28.2
60°-70°	740.1	10.7
70°-80°	70.4	1.0
80°-90°	7.9	0.1
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°	6939.9	100.0
0°-180°	6939.9	100.0

**Coefficient of Utilization**



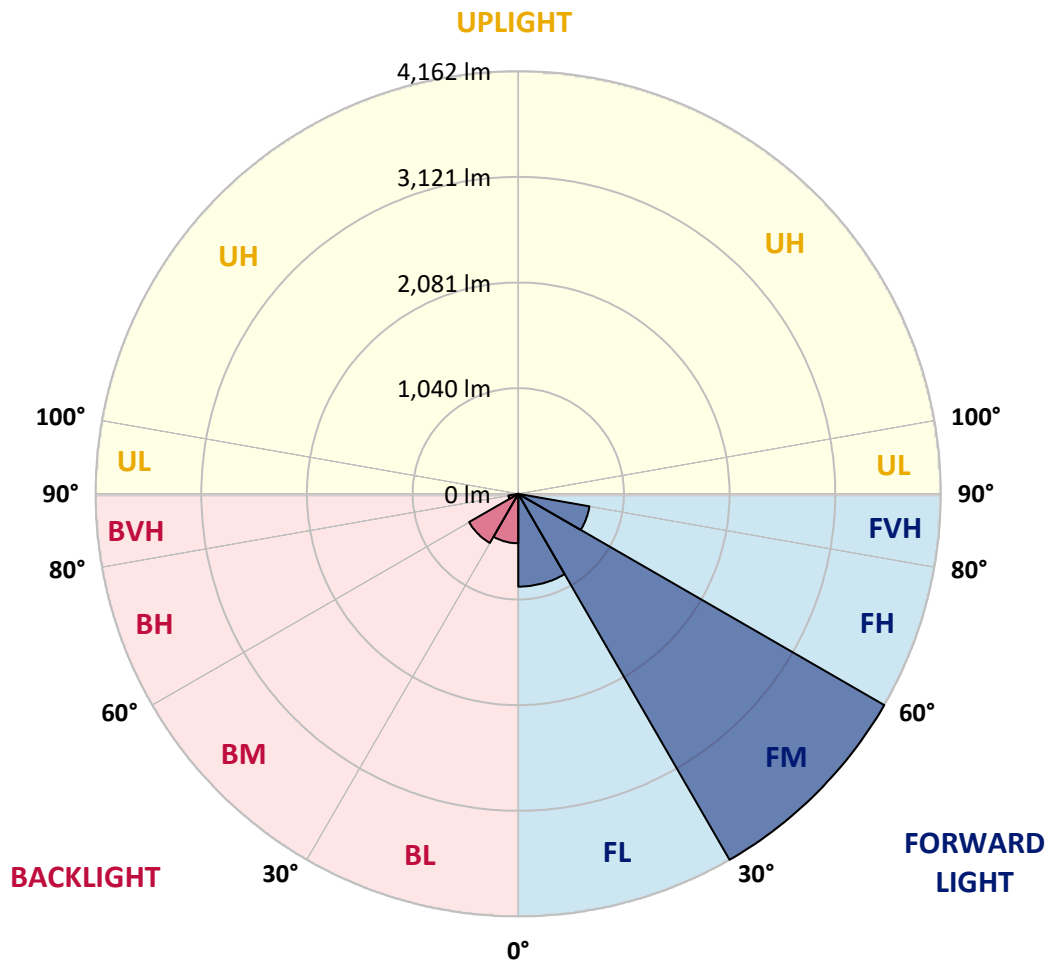
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	913.8	13.2			
FM (30°-60°)	4161.7	60.0			
FH (60°-80°)	712.1	10.3			G1/1800
FVH (80°-90°)	4.1	0.1			G0/10
BL (0°-30°)	487.3	7.0	B1/500		
BM (30°-60°)	558.8	8.1	B1/1000		
BH (60°-80°)	98.4	1.4	B0/110		G0/110
BVH (80°-90°)	3.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7
2.5°	2479.8	2457.8	2479.8	2482.4	2497.9	2512.1	2503.1	2523.8	2512.1	2499.2	2495.3
5°	2279.4	2309.1	2310.4	2357.0	2346.6	2431.9	2469.4	2459.1	2522.4	2518.5	2509.5
7.5°	2099.6	2088.0	2103.5	2157.8	2226.4	2324.6	2378.9	2377.7	2468.2	2532.8	2526.3
10°	1932.9	1931.6	1963.9	2006.5	2064.7	2168.2	2243.2	2280.7	2421.6	2519.9	2534.1
12.5°	1820.4	1815.2	1850.1	1885.0	1976.9	2057.0	2152.7	2170.8	2332.3	2474.6	2497.9
15°	1746.7	1758.4	1760.9	1828.2	1886.4	1992.3	2067.3	2104.9	2291.1	2438.4	2527.6
17.5°	1733.8	1749.3	1750.5	1806.2	1868.2	1957.4	2023.4	2073.8	2256.1	2456.5	2528.9
20°	1759.6	1750.5	1758.4	1793.3	1854.0	1939.3	2035.1	2051.8	2244.5	2465.6	2543.1
22.5°	1833.3	1830.8	1811.3	1839.8	1882.5	1971.6	2062.1	2088.0	2278.1	2512.1	2554.8
25°	1914.8	1929.0	1910.9	1907.1	1936.7	2024.7	2144.9	2178.5	2390.5	2596.2	2591.0
27.5°	2067.3	2053.1	2053.1	2035.1	2027.2	2070.0	2234.1	2289.7	2516.0	2704.7	2632.3
30°	2213.4	2229.0	2217.3	2223.8	2172.1	2168.2	2360.9	2429.3	2738.4	2870.2	2720.2
32.5°	2444.9	2424.2	2443.6	2426.8	2358.2	2288.4	2532.8	2603.9	3007.2	3060.3	2852.2
35°	2637.5	2628.5	2711.2	2708.6	2597.4	2528.9	2715.1	2821.1	3194.8	3287.8	3007.2
37.5°	2911.6	2894.8	2989.2	3034.4	2934.8	2832.7	2976.2	3099.1	3369.3	3470.1	3166.3
40°	3193.4	3236.1	3362.8	3437.8	3331.8	3196.1	3295.6	3333.1	3485.7	3589.1	3274.9
42.5°	3550.3	3612.3	3741.6	3806.3	3797.2	3649.9	3620.1	3618.8	3569.7	3555.5	3355.1
45°	3892.9	3869.6	4068.8	4209.7	4323.4	4280.8	3933.0	3894.2	3702.8	3605.9	3375.8
47.5°	4042.9	4035.1	4170.9	4421.7	4809.6	4862.6	4388.1	4238.1	3927.8	3817.9	3488.2
50°	3848.9	3889.0	4023.5	4301.5	4896.2	5300.9	4946.6	4744.9	4190.3	4076.5	3754.6
52.5°	3215.4	3242.6	3370.6	3723.5	4601.4	5559.4	5481.9	5365.5	4672.5	4483.8	4218.7
54°	2643.9	2716.3	2786.2	3140.5	4076.5	5416.0	5775.4	5686.2	4986.7	4822.5	4511.0
55°	2302.7	2345.3	2395.8	2748.7	3713.2	5172.9	5741.8	5749.5	5197.5	4928.5	4707.4
57.5°	1682.1	1711.8	1660.0	1816.6	2549.6	4200.6	5251.7	5461.2	5481.9	5087.5	4827.7
60°	1285.1	1298.1	1239.9	1264.4	1585.1	2883.2	4062.3	4314.4	4945.3	4446.3	4089.4
62.5°	996.8	999.4	998.1	1040.8	1092.5	1696.3	2540.6	2764.2	3409.3	3157.3	2777.2
65°	734.4	722.8	743.4	872.7	932.2	1066.6	1338.1	1501.0	1852.7	1564.4	1118.4
67.5°	475.8	479.7	500.3	649.0	799.0	818.4	823.6	810.6	811.9	447.3	280.6
70°	285.8	292.2	285.8	367.2	571.5	586.9	536.6	523.6	408.6	106.1	104.7
72.5°	169.4	160.3	143.5	157.8	237.9	284.4	256.0	254.7	160.3	62.1	62.1
75°	71.1	64.7	53.0	47.9	63.3	60.8	60.8	54.3	42.6	41.4	38.8
77.5°	14.2	14.2	10.3	11.6	15.5	18.1	22.0	22.0	25.8	25.8	24.6
80°	0.0	1.3	3.9	7.7	11.6	16.8	19.4	19.4	22.0	22.0	18.1
82.5°	0.0	1.3	3.9	7.7	10.3	15.5	19.4	19.4	22.0	23.3	19.4
85°	0.0	1.3	3.9	6.5	10.3	13.0	13.0	11.6	9.1	7.7	5.1
87.5°	0.0	0.0	1.3	2.6	1.3	2.6	2.6	2.6	2.6	2.6	2.6
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°	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7
2.5°	2504.3	2503.1	2472.0	2421.6	2410.0	2367.3	2362.1	2336.3	2350.5	2302.7	2297.4
5°	2483.6	2468.2	2430.7	2398.4	2303.9	2236.7	2183.7	2119.1	2081.6	2088.0	2063.5
7.5°	2513.4	2473.3	2407.4	2294.9	2179.8	2062.1	1998.8	1866.9	1819.1	1748.0	1737.7
10°	2482.4	2452.6	2350.5	2164.3	2005.3	1835.9	1687.2	1541.1	1430.0	1382.1	1371.8
12.5°	2479.8	2428.1	2257.4	2050.5	1820.4	1577.3	1361.4	1179.1	1069.2	1007.2	993.0
15°	2439.7	2377.7	2152.7	1874.7	1556.6	1254.1	1018.8	842.9	758.9	722.8	733.1
17.5°	2443.6	2350.5	2047.9	1688.6	1296.7	920.6	695.6	605.1	583.1	592.1	592.1
20°	2439.7	2289.7	1921.3	1473.9	993.0	638.7	510.7	478.4	492.6	521.0	514.6
22.5°	2419.1	2261.3	1804.9	1247.6	730.5	473.2	409.8	411.2	433.1	468.0	475.8
25°	2434.5	2198.0	1657.5	1018.8	532.7	377.5	355.6	364.6	387.9	413.7	418.9
27.5°	2422.9	2152.7	1503.6	791.2	389.1	324.5	323.2	333.5	343.9	363.3	363.3
30°	2435.8	2111.3	1352.4	588.3	320.7	297.4	292.2	300.0	310.3	314.2	312.9
32.5°	2483.6	2080.3	1177.8	439.6	283.2	271.5	271.5	271.5	270.2	275.4	276.7
35°	2588.3	2085.4	1024.0	340.0	258.6	249.5	245.7	240.4	237.9	240.4	241.8
37.5°	2702.1	2082.8	865.0	289.6	240.4	232.7	223.7	215.9	214.6	217.2	213.4
40°	2752.6	2107.5	717.5	259.9	223.7	214.6	200.4	193.9	195.2	197.8	195.2
42.5°	2821.1	2115.2	621.9	236.6	208.1	193.9	184.9	177.1	175.9	179.7	178.5
45°	2819.8	2071.2	521.0	223.7	193.9	178.5	166.8	160.3	160.3	162.9	164.2
47.5°	2902.5	2064.7	447.3	212.0	183.6	168.1	153.8	148.7	147.4	147.4	144.8
50°	3095.2	2155.2	390.5	199.1	170.6	156.4	144.8	138.3	133.1	130.6	129.3
52.5°	3471.4	2437.1	346.5	183.6	156.4	144.8	134.5	129.3	122.8	116.4	115.0
54°	3836.1	2728.0	343.9	170.6	144.8	137.1	128.0	125.4	117.7	108.6	106.1
55°	4000.2	2897.4	353.0	160.3	137.1	131.9	124.1	121.5	113.8	103.4	102.1
57.5°	4136.0	2963.3	347.8	133.1	124.1	122.8	116.4	112.4	103.4	89.2	86.6
60°	3329.2	2240.6	249.5	117.7	113.8	111.2	106.1	103.4	91.8	76.3	75.0
62.5°	2103.5	1289.0	159.0	103.4	99.6	95.7	89.2	86.6	76.3	60.8	56.9
65°	896.0	534.0	107.3	91.8	85.4	78.9	73.7	69.8	60.8	45.2	44.0
67.5°	232.7	190.1	89.2	80.1	71.1	62.1	58.2	51.7	41.4	31.0	29.8
70°	104.7	95.7	75.0	67.2	56.9	47.9	42.6	36.2	27.2	20.7	19.4
72.5°	62.1	60.8	56.9	50.5	42.6	36.2	31.0	24.6	18.1	11.6	11.6
75°	38.8	37.5	38.8	34.9	29.8	27.2	23.3	16.8	10.3	5.1	5.1
77.5°	23.3	23.3	23.3	22.0	20.7	20.7	16.8	10.3	5.1	1.3	1.3
80°	18.1	18.1	19.4	18.1	18.1	18.1	14.2	7.7	2.6	0.0	0.0
82.5°	18.1	19.4	22.0	20.7	18.1	15.5	13.0	7.7	2.6	0.0	0.0
85°	5.1	3.9	6.5	9.1	13.0	11.6	9.1	6.5	2.6	0.0	0.0
87.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	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)