

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: P527010

Luminaire Tested: **GALN-SA2A-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527010  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-730-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7099 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

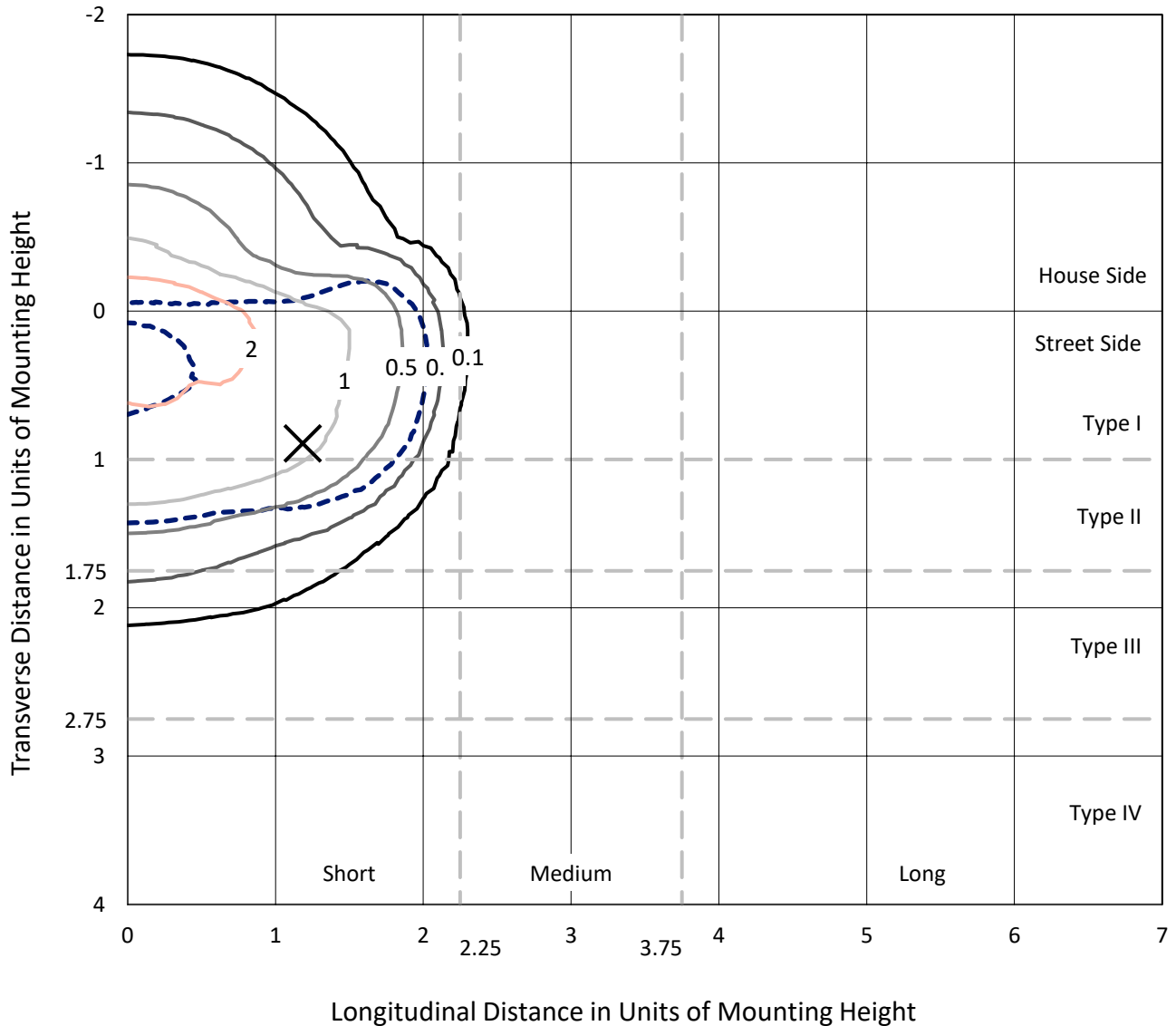
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

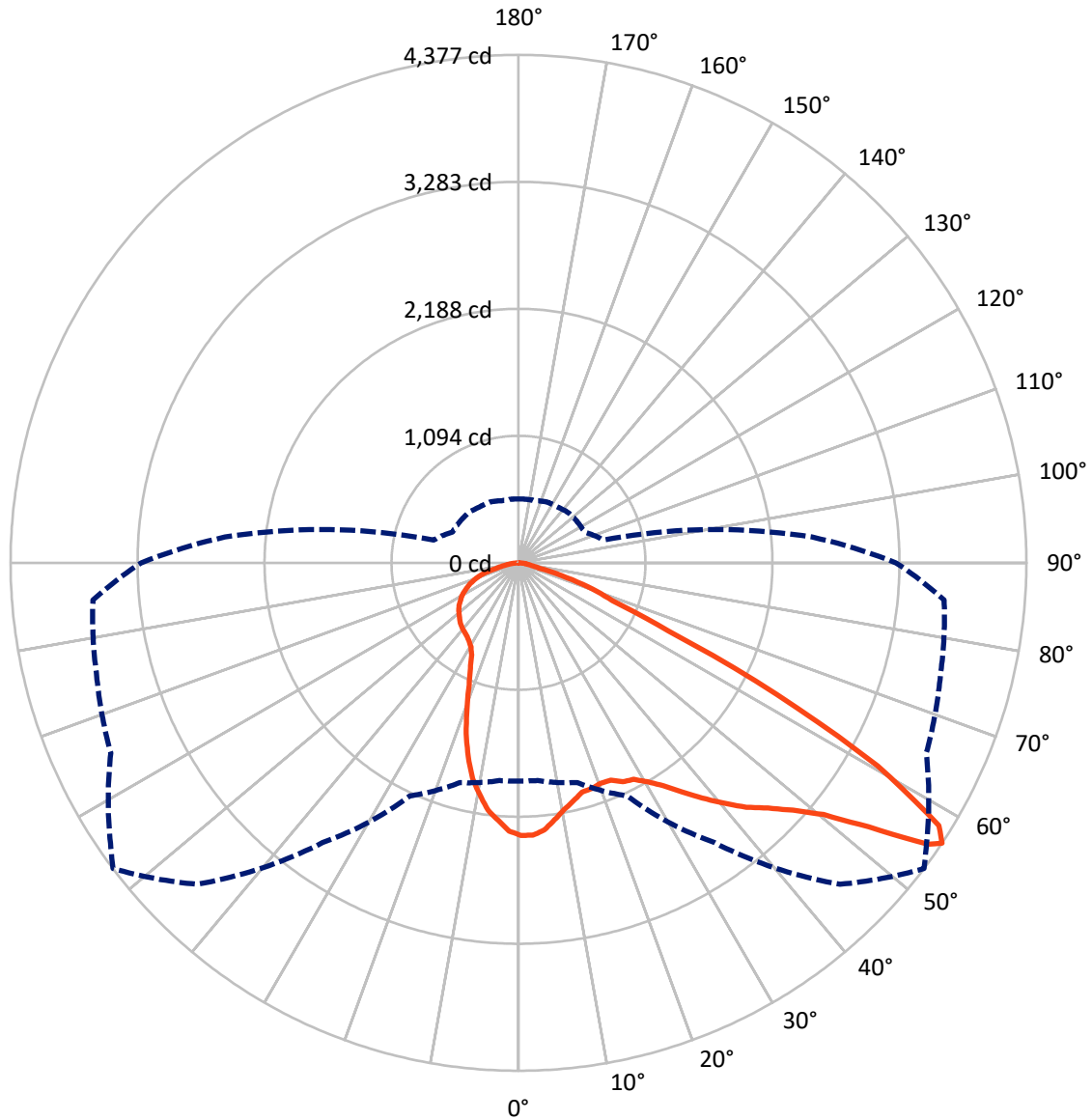
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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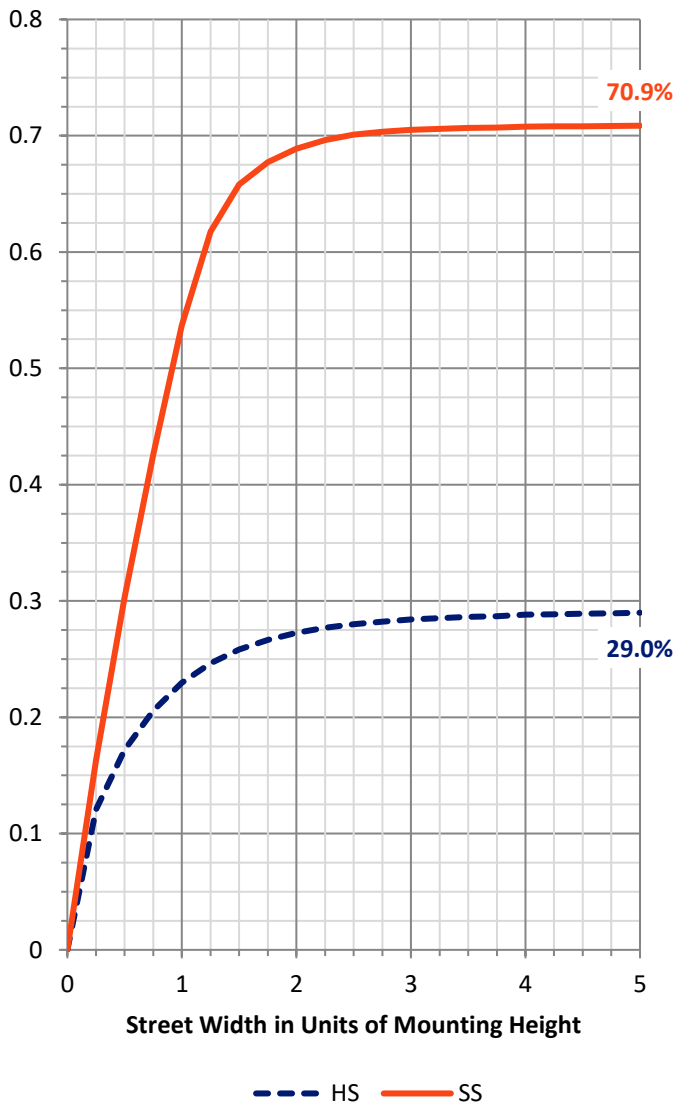
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2071.6	0.0	2071.6
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	5027.4	0.0	5027.4
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	7099.0	0.0	7099.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.9	2.9
10°-20°	519.3	7.3
20°-30°	765.7	10.8
30°-40°	1094.1	15.4
40°-50°	1505.9	21.2
50°-60°	1779.6	25.1
60°-70°	948.4	13.4
70°-80°	240.6	3.4
80°-90°	37.5	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°	7099.0	100.0
0°-180°	7099.0	100.0

**Coefficient of Utilization**



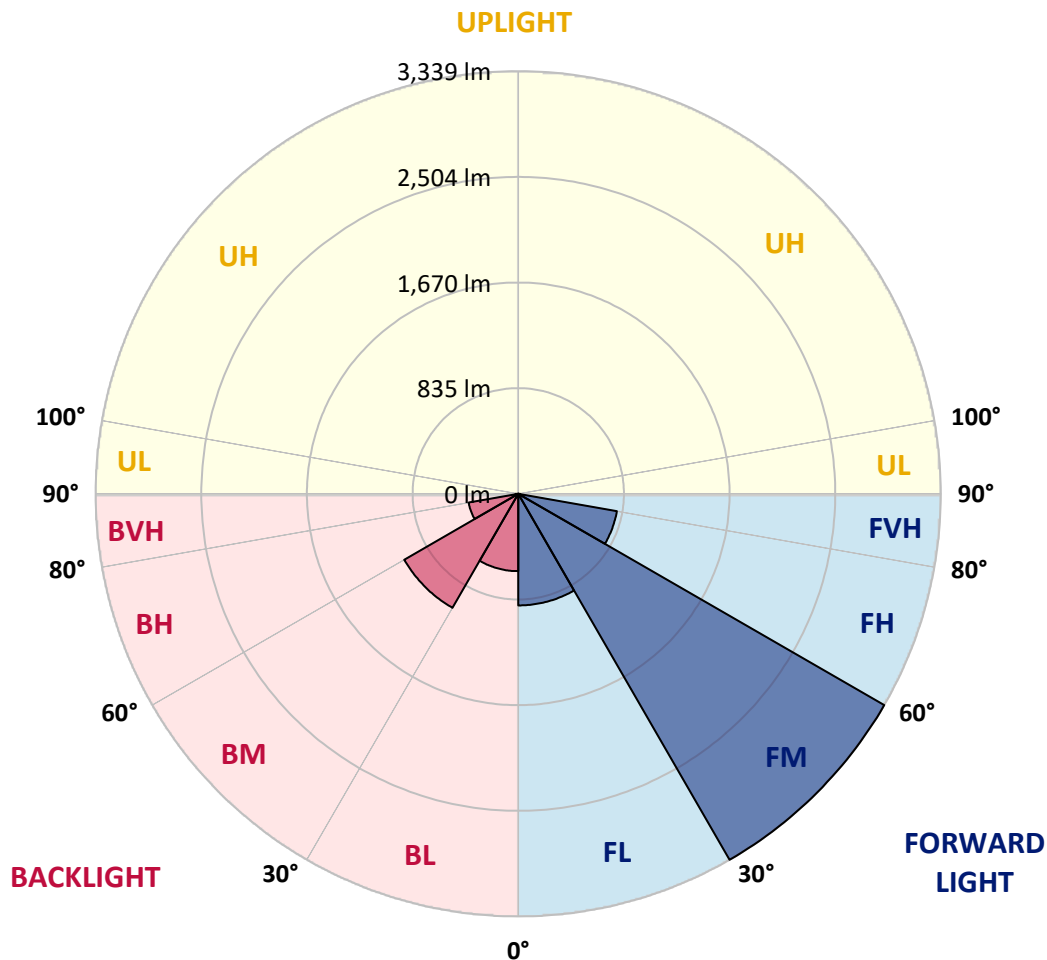
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.9	12.4			
FM (30°-60°)	3339.2	47.0			
FH (60°-80°)	791.1	11.1			G1/1800
FVH (80°-90°)	15.1	0.2			G1/100
BL (0°-30°)	611.0	8.6	B2/1000		
BM (30°-60°)	1040.3	14.7	B2/2500		
BH (60°-80°)	397.9	5.6	B1/500		G1/500
BVH (80°-90°)	22.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2348.6	2348.6	2348.6	2348.6	2348.6	2348.6	2348.6	2348.6	2348.6	2348.6	2348.6
2.5°	2319.5	2299.5	2311.3	2306.7	2344.1	2355.0	2349.5	2354.1	2375.0	2365.0	2344.1
5°	2167.4	2195.6	2201.1	2214.8	2236.6	2279.4	2313.1	2322.2	2332.2	2378.7	2374.1
7.5°	2029.0	2048.1	2038.1	2078.2	2125.5	2194.7	2235.7	2243.0	2335.0	2360.5	2379.6
10°	1941.6	1922.4	1968.0	1978.9	2032.6	2111.9	2161.0	2191.1	2274.9	2375.9	2387.8
12.5°	1860.5	1854.1	1881.5	1912.4	1972.5	2054.5	2104.6	2116.4	2245.7	2352.3	2407.8
15°	1800.4	1793.1	1820.4	1843.2	1913.3	1986.2	2049.9	2083.6	2213.8	2338.6	2390.5
17.5°	1753.0	1752.1	1767.6	1808.6	1880.5	1941.6	2044.5	2046.3	2197.5	2359.6	2405.1
20°	1750.3	1749.4	1752.1	1797.7	1863.2	1937.9	2027.2	2043.6	2197.5	2345.0	2406.0
22.5°	1773.1	1758.5	1774.9	1804.0	1851.4	1944.3	2033.5	2070.0	2250.3	2416.9	2447.0
25°	1809.5	1813.2	1822.3	1832.3	1859.6	1958.9	2090.0	2120.0	2312.2	2478.9	2503.4
27.5°	1876.0	1874.2	1877.8	1883.3	1907.0	1972.5	2112.8	2190.2	2441.5	2589.0	2564.5
30°	1973.4	1967.1	1981.6	2000.8	1978.9	2016.2	2188.4	2246.6	2561.7	2700.1	2632.8
32.5°	2061.8	2085.4	2112.8	2121.0	2094.6	2101.8	2288.5	2347.7	2661.9	2836.8	2716.5
35°	2172.0	2191.1	2227.5	2253.0	2248.5	2226.6	2425.1	2503.4	2806.7	2936.9	2804.9
37.5°	2279.4	2302.2	2362.3	2437.9	2396.0	2386.0	2570.8	2635.5	2851.3	2990.7	2869.5
40°	2452.4	2451.5	2555.4	2594.5	2631.8	2614.5	2722.0	2743.9	2875.0	2978.8	2871.4
42.5°	2655.5	2642.8	2748.4	2809.4	2857.7	2859.5	2879.6	2872.3	2885.9	2918.7	2852.2
45°	2848.6	2875.9	2982.5	3091.7	3140.0	3145.5	3012.5	2998.9	2905.1	2901.4	2815.8
47.5°	3084.5	3090.8	3178.3	3322.1	3434.2	3395.9	3184.6	3154.6	2988.8	3017.1	2876.8
50°	3098.1	3145.5	3223.8	3393.2	3737.4	3727.4	3407.7	3351.3	3123.6	3181.0	3047.1
52.5°	2812.2	2801.2	2894.1	3171.0	3714.6	4057.1	3777.5	3642.7	3413.2	3369.5	3323.1
55°	2142.8	2168.3	2250.3	2529.9	3225.6	4061.6	4281.1	4170.9	3722.8	3648.2	3594.4
56°	1879.6	1883.3	1960.7	2215.7	2943.3	3916.8	4376.7	4287.5	3876.7	3762.9	3680.9
57.5°	1558.2	1537.2	1577.3	1716.6	2484.3	3610.8	4272.0	4359.4	4057.1	3886.8	3772.9
60°	1226.7	1222.1	1205.7	1231.2	1570.0	2720.2	3556.2	3752.9	4038.8	3770.2	3613.6
62.5°	1001.7	979.0	1011.8	1048.2	1091.0	1687.5	2498.9	2614.5	3206.5	3009.8	2714.7
65°	776.8	765.9	806.9	925.2	950.7	1071.9	1423.4	1512.6	1893.3	1859.6	1637.4
67.5°	534.6	536.4	571.9	752.2	881.5	870.6	871.5	918.0	988.1	734.0	639.3
70°	338.8	337.9	357.0	484.5	709.4	716.7	680.3	666.6	632.0	382.5	405.3
72.5°	217.7	211.3	221.3	267.7	367.0	424.4	437.1	445.3	366.1	300.5	326.0
75°	122.9	116.6	112.9	124.8	144.8	167.6	184.0	189.4	212.2	227.7	241.3
77.5°	37.3	33.7	41.0	54.6	71.9	96.5	117.5	121.1	143.0	161.2	174.8
80°	16.4	18.2	25.5	36.4	51.0	68.3	82.9	88.3	102.9	116.6	120.2
82.5°	10.0	10.9	17.3	24.6	35.5	48.3	59.2	61.0	75.6	86.5	89.2
85°	3.6	4.6	9.1	14.6	22.8	31.0	31.0	33.7	31.0	31.0	33.7
87.5°	0.0	0.0	0.9	1.8	1.8	2.7	3.6	3.6	4.6	5.5	6.4
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°	2348.6	2348.6	2348.6	2348.6	2348.6	2348.6	2348.6	2348.6	2348.6	2348.6	2348.6
2.5°	2355.0	2350.5	2343.2	2316.8	2314.0	2305.8	2260.3	2253.0	2260.3	2238.4	2240.3
5°	2350.5	2364.1	2309.5	2283.1	2233.9	2198.4	2157.4	2136.4	2099.1	2075.4	2101.8
7.5°	2370.5	2365.0	2296.7	2239.3	2165.6	2075.4	2003.5	1962.5	1896.9	1878.7	1892.4
10°	2363.2	2334.1	2253.9	2178.3	2039.0	1959.8	1843.2	1730.3	1668.4	1636.5	1631.9
12.5°	2353.2	2345.0	2211.1	2080.9	1934.3	1767.6	1603.7	1497.1	1396.1	1352.4	1358.7
15°	2365.0	2295.8	2131.0	1966.1	1771.3	1552.7	1376.0	1238.5	1168.4	1140.2	1140.2
17.5°	2359.6	2272.1	2092.7	1837.7	1590.9	1332.3	1138.3	1055.5	1026.3	1026.3	1034.5
20°	2362.3	2287.6	2015.3	1709.3	1377.9	1122.0	980.8	950.7	963.5	968.0	972.6
22.5°	2377.8	2236.6	1939.7	1568.2	1180.2	959.9	890.6	891.6	914.3	938.9	934.4
25°	2396.9	2216.6	1847.8	1427.9	1029.1	880.6	858.8	856.0	873.3	886.1	887.9
27.5°	2380.5	2182.0	1754.0	1253.1	905.2	827.8	823.2	825.1	830.5	856.0	847.8
30°	2434.2	2192.0	1636.5	1106.5	836.9	810.5	805.0	802.3	810.5	817.8	811.4
32.5°	2500.7	2156.5	1549.1	965.3	803.2	797.8	786.8	783.2	787.7	780.4	784.1
35°	2529.9	2150.1	1435.2	864.2	776.8	772.3	765.9	765.0	765.9	759.5	754.0
37.5°	2546.2	2180.2	1305.0	817.8	760.4	765.0	750.4	748.6	732.2	735.8	738.6
40°	2574.5	2133.7	1199.4	773.2	750.4	741.3	728.5	725.8	714.9	708.5	714.9
42.5°	2533.5	2120.0	1095.5	754.0	735.8	725.8	716.7	701.2	697.6	692.1	688.5
45°	2500.7	2041.7	1002.7	730.4	718.5	713.1	695.8	679.4	665.7	671.2	663.0
47.5°	2525.3	2014.4	910.7	710.3	694.8	688.5	671.2	658.4	644.8	638.4	636.6
50°	2623.7	2065.4	833.3	695.8	674.8	671.2	648.4	633.8	621.1	616.5	618.3
52.5°	2858.6	2204.7	780.4	665.7	655.7	639.3	626.5	608.3	600.1	585.6	594.7
55°	3156.4	2431.5	766.8	637.5	632.0	617.4	600.1	586.5	571.0	559.2	556.4
56°	3252.0	2539.9	755.9	626.5	617.4	609.2	586.5	578.3	553.7	551.0	549.1
57.5°	3329.4	2635.5	757.7	605.6	596.5	589.2	575.5	555.5	539.1	529.1	533.7
60°	3154.6	2467.0	723.1	573.7	571.9	558.2	539.1	530.0	510.0	498.1	495.4
62.5°	2345.0	1674.7	586.5	532.7	531.8	517.3	495.4	485.4	481.7	465.4	465.4
65°	1350.5	1050.0	507.2	499.0	491.8	477.2	455.3	447.1	438.0	432.6	428.0
67.5°	576.5	544.6	460.8	459.9	451.7	433.5	411.6	398.9	387.0	376.1	381.6
70°	418.0	424.4	416.2	411.6	401.6	378.8	359.7	344.2	326.0	318.7	324.2
72.5°	331.5	345.1	357.0	357.9	346.1	319.6	298.7	277.8	257.7	247.7	252.3
75°	251.3	260.5	272.3	275.0	257.7	239.5	219.5	197.6	182.1	170.3	172.1
77.5°	181.2	179.4	190.3	188.5	180.3	167.6	149.4	129.3	112.0	101.1	102.0
80°	123.9	126.6	133.0	132.0	122.0	113.8	100.2	83.8	71.0	61.9	60.1
82.5°	86.5	91.1	96.5	92.0	83.8	75.6	65.6	53.7	43.7	36.4	34.6
85°	31.0	35.5	41.0	43.7	46.4	44.6	37.3	30.1	21.9	18.2	17.3
87.5°	6.4	7.3	8.2	8.2	8.2	7.3	6.4	6.4	5.5	2.7	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)