

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: P527168

Luminaire Tested: **GALN-SA2A-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6182 lumens
Efficiency: N/A
Efficacy: 98.1 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



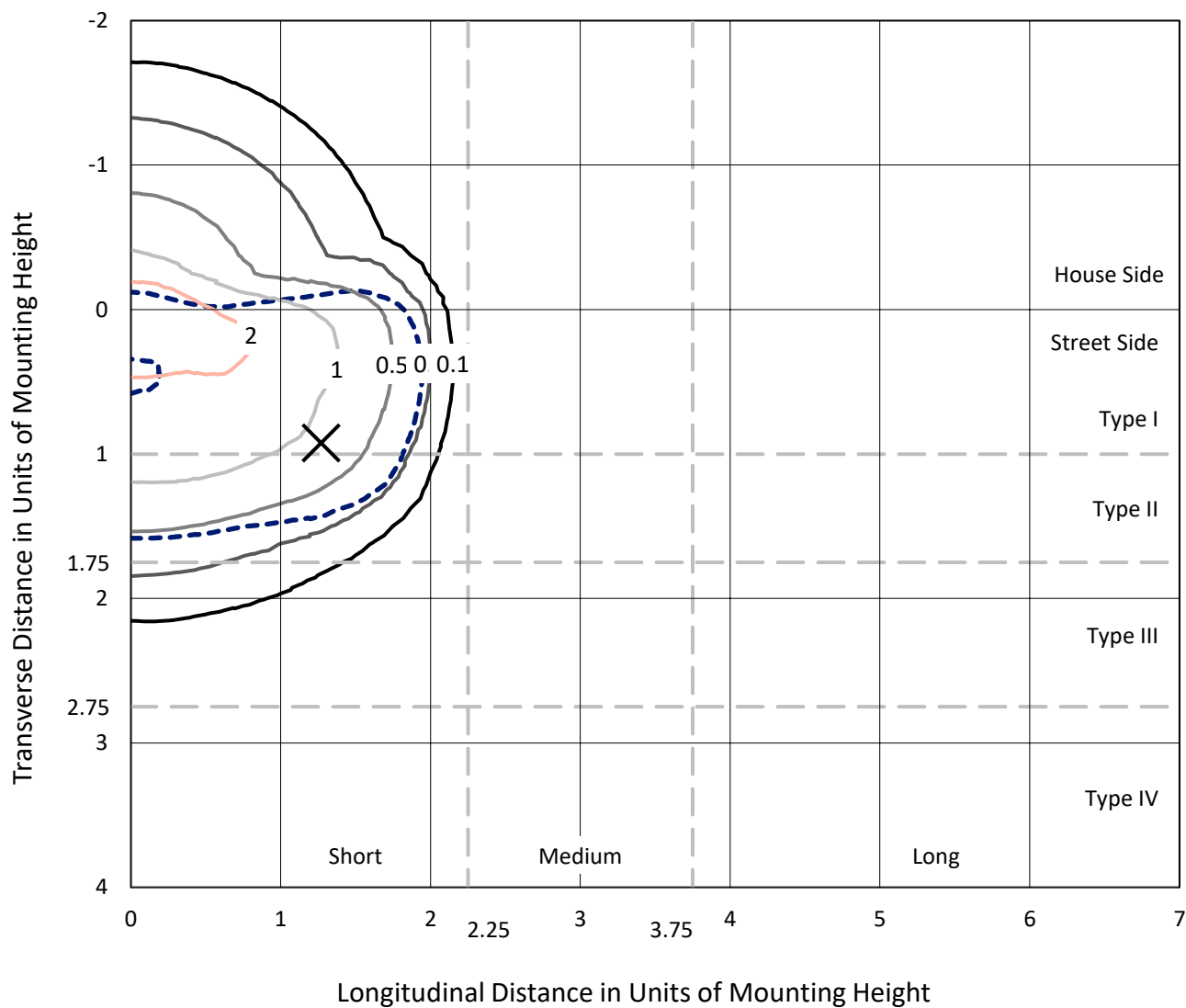
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

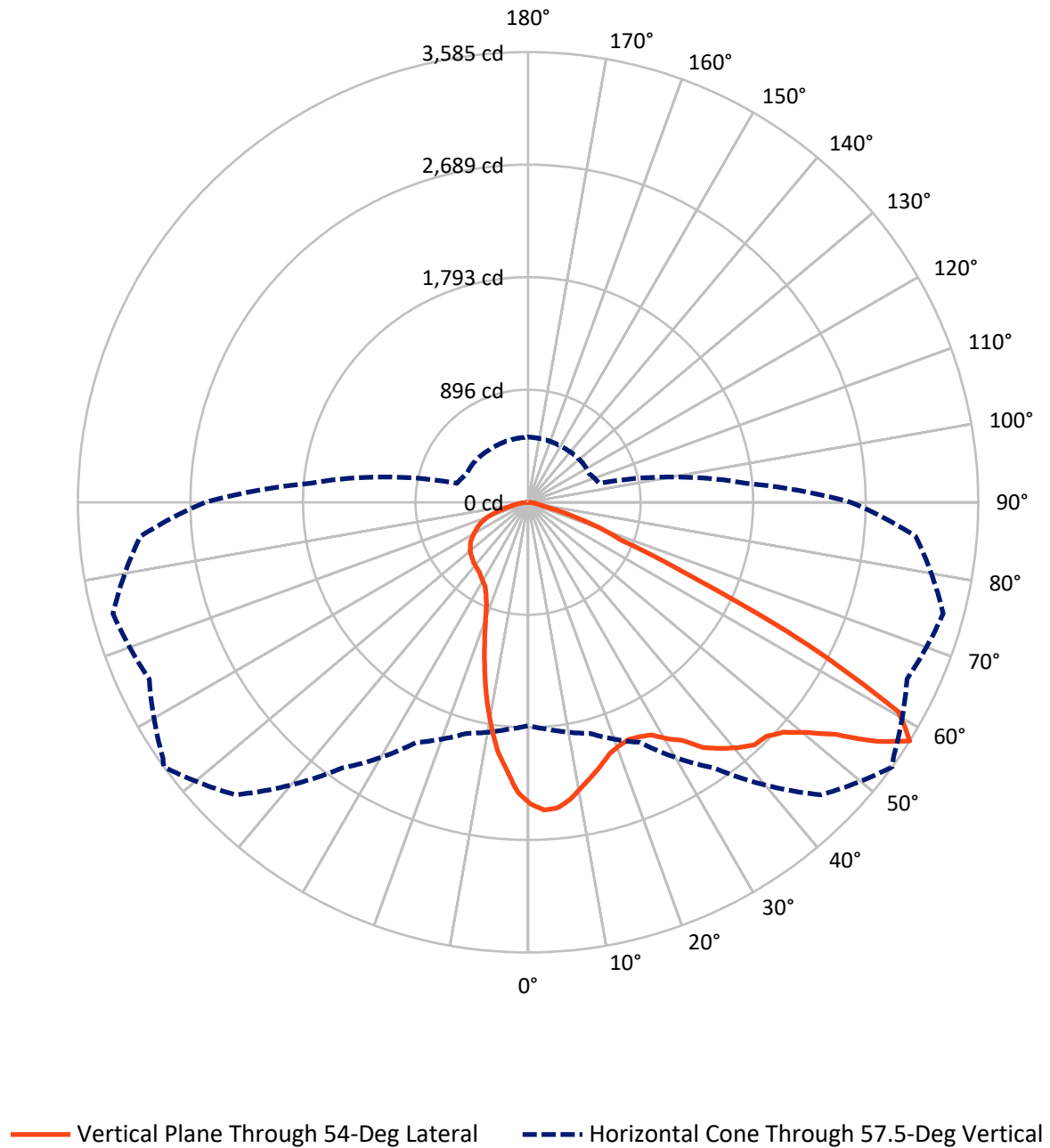
--- 1/2 Max cd



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



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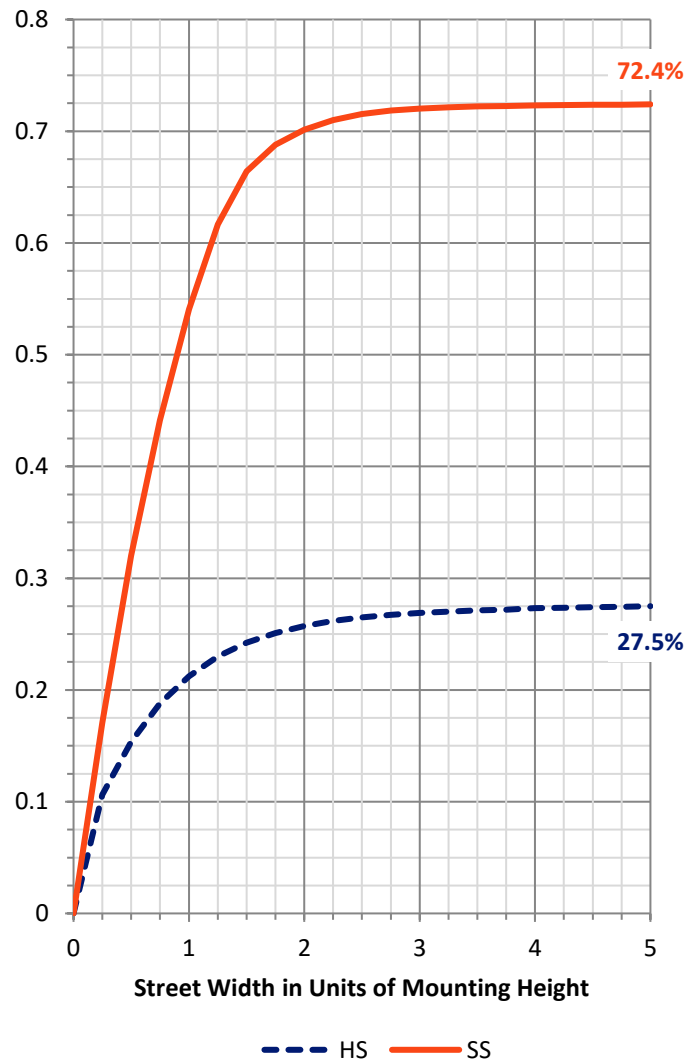
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1710.3	0.0	1710.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	4471.7	0.0	4471.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	6182.0	0.0	6182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	3.4
10°-20°	479.8	7.8
20°-30°	674.1	10.9
30°-40°	942.4	15.2
40°-50°	1275.9	20.6
50°-60°	1554.1	25.1
60°-70°	809.4	13.1
70°-80°	207.4	3.4
80°-90°	31.6	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°	6182.0	100.0
0°-180°	6182.0	100.0

Coefficient of Utilization



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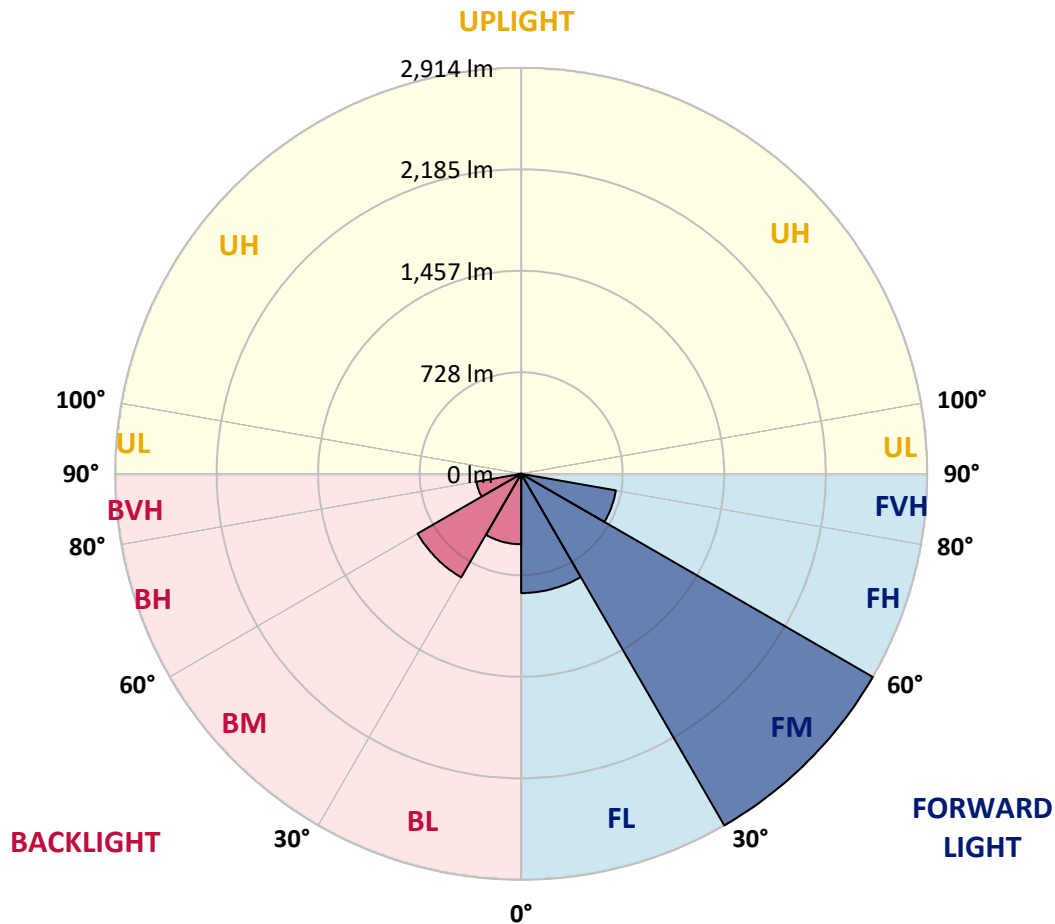
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	855.7	13.8			
FM	(30°-60°)	2914.0	47.1			
FH	(60°-80°)	690.1	11.2			G1/1800
FVH	(80°-90°)	12.0	0.2			G1/100
BL	(0°-30°)	505.5	8.2	B2/1000		
BM	(30°-60°)	858.4	13.9	B1/1000		
BH	(60°-80°)	326.8	5.3	B1/500		G1/500
BVH	(80°-90°)	19.7	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°	54°	55°	65°	75°	85°
0°	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9
2.5°	2471.2	2461.7	2463.3	2476.0	2460.1	2453.7	2453.7	2422.7	2425.1	2403.7	2398.1
5°	2414.0	2391.7	2406.8	2425.9	2429.1	2435.5	2445.8	2437.8	2415.6	2392.5	2355.2
7.5°	2264.6	2284.5	2290.0	2303.5	2332.2	2358.4	2391.0	2368.7	2367.9	2344.9	2322.6
10°	2133.5	2121.6	2151.8	2171.6	2219.3	2263.0	2313.1	2310.7	2322.6	2296.4	2258.3
12.5°	2003.2	1993.7	2008.0	2053.2	2120.0	2183.6	2243.2	2220.9	2284.5	2279.7	2197.9
15°	1864.9	1872.1	1892.7	1934.9	2022.3	2098.5	2174.0	2174.8	2231.2	2250.3	2140.7
17.5°	1768.0	1760.0	1786.3	1849.0	1926.9	2018.3	2104.1	2121.6	2208.2	2219.3	2123.2
20°	1695.7	1706.8	1741.0	1772.8	1862.5	1973.0	2069.9	2076.3	2203.4	2233.6	2095.4
22.5°	1678.2	1671.8	1683.0	1734.6	1808.5	1928.5	2051.7	2075.5	2202.6	2228.9	2042.9
25°	1659.9	1680.6	1679.8	1731.4	1785.5	1892.7	2066.8	2093.0	2244.7	2253.5	2050.1
27.5°	1701.2	1698.9	1721.1	1725.1	1791.8	1902.3	2098.5	2118.4	2314.7	2307.5	2055.6
30°	1742.6	1730.6	1744.1	1791.0	1822.0	1957.1	2185.9	2184.4	2405.3	2400.5	2073.1
32.5°	1793.4	1787.9	1796.6	1837.9	1890.4	2030.2	2259.8	2306.7	2497.4	2527.6	2133.5
35°	1802.9	1826.0	1846.7	1902.3	1977.0	2148.6	2398.9	2437.8	2603.9	2698.5	2248.7
37.5°	1863.3	1872.1	1920.5	2019.1	2087.4	2306.7	2487.1	2511.7	2700.8	2808.1	2370.3
40°	1927.7	1938.0	2011.1	2114.4	2208.2	2410.0	2569.7	2577.7	2731.8	2892.3	2449.8
42.5°	2015.1	2024.6	2097.0	2226.5	2352.0	2498.2	2642.8	2651.6	2729.5	2989.3	2576.1
45°	2105.7	2128.7	2213.8	2360.8	2473.6	2601.5	2659.5	2695.3	2751.7	3075.9	2678.6
47.5°	2232.8	2254.3	2324.2	2468.0	2599.9	2692.1	2736.6	2771.6	2804.9	3151.4	2744.6
50°	2367.9	2371.9	2456.9	2587.2	2684.2	2794.6	2880.4	2892.3	2874.9	3238.8	2856.6
52.5°	2467.2	2479.9	2545.9	2673.0	2817.7	2953.5	3071.1	3083.8	3049.7	3271.4	2894.7
55°	2302.8	2295.6	2402.9	2572.1	2907.4	3190.3	3361.2	3370.7	3176.8	3372.3	3019.5
57.5°	1779.9	1814.1	1905.5	2109.7	2583.2	3295.2	3585.2	3551.1	3329.4	3423.1	3098.9
60°	1293.6	1285.7	1346.8	1483.5	1946.8	2839.9	3389.8	3424.7	3204.6	3085.4	2555.4
62.5°	1053.6	1042.5	1047.3	1052.1	1256.3	1884.8	2509.3	2508.6	2468.0	2217.7	1723.5
65°	842.3	868.5	870.9	906.6	932.9	1125.9	1454.1	1532.0	1334.1	1094.2	793.8
67.5°	634.9	625.4	657.1	784.3	833.5	812.9	793.8	802.5	570.5	411.6	387.8
70°	374.3	370.3	408.4	546.7	686.5	646.0	598.3	599.1	391.7	287.6	320.2
72.5°	205.0	204.2	212.2	277.3	390.1	405.2	359.2	370.3	233.6	232.8	250.3
75°	114.4	112.0	109.7	122.4	140.6	148.6	151.8	153.4	160.5	179.6	186.7
77.5°	42.1	40.5	40.5	46.9	59.6	74.7	94.6	96.1	113.6	130.3	137.5
80°	14.3	15.9	21.5	29.4	39.7	53.2	64.4	66.0	80.3	91.4	93.8
82.5°	8.7	9.5	14.3	20.7	28.6	37.3	47.7	48.5	59.6	66.7	69.9
85°	4.0	4.8	7.9	12.7	18.3	24.6	25.4	25.4	24.6	25.4	23.8
87.5°	0.0	0.0	1.6	1.6	1.6	2.4	3.2	2.4	4.0	4.8	4.8
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°	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9
2.5°	2381.4	2372.7	2345.7	2321.8	2314.7	2282.9	2236.0	2241.6	2207.4	2223.3	2206.6
5°	2348.8	2319.4	2250.3	2220.9	2143.8	2108.9	2085.0	2025.4	1997.6	1992.1	1968.2
7.5°	2265.4	2247.1	2160.5	2081.1	1999.2	1929.3	1839.5	1778.3	1734.6	1722.7	1687.7
10°	2199.5	2158.9	2038.9	1918.2	1801.4	1679.8	1563.0	1471.6	1427.1	1375.5	1358.0
12.5°	2134.3	2073.1	1911.0	1756.1	1605.1	1451.7	1310.3	1199.1	1102.1	1079.1	1071.1
15°	2093.8	1987.3	1796.6	1609.9	1395.3	1195.1	1053.6	980.5	920.9	896.3	913.8
17.5°	2040.5	1916.6	1686.9	1438.2	1202.2	1017.9	899.5	854.2	832.7	835.1	828.0
20°	1973.8	1849.8	1543.1	1282.5	1029.8	882.8	815.3	798.6	801.8	807.3	804.9
22.5°	1926.1	1768.8	1439.0	1123.6	890.0	808.1	780.3	768.4	778.7	783.5	779.5
25°	1889.6	1699.7	1312.7	982.9	808.9	766.0	753.3	752.5	768.4	774.7	770.8
27.5°	1856.2	1635.3	1187.1	875.6	754.9	733.4	729.4	739.0	749.3	755.7	761.2
30°	1836.3	1586.0	1069.5	785.9	727.9	717.5	710.4	719.1	724.7	731.0	727.9
32.5°	1855.4	1551.1	955.9	735.0	705.6	695.3	704.8	699.2	708.8	714.3	705.6
35°	1915.0	1520.1	874.9	708.0	680.2	684.2	685.7	683.4	687.3	682.6	692.9
37.5°	1973.8	1508.9	800.2	684.9	668.3	668.3	666.7	661.9	669.8	668.3	673.0
40°	2048.5	1516.1	736.6	660.3	657.1	655.5	649.2	648.4	645.2	646.0	647.6
42.5°	2113.6	1532.0	700.0	644.4	646.8	650.0	638.1	628.5	632.5	624.6	624.6
45°	2182.8	1546.3	667.5	633.3	630.9	630.1	620.6	615.0	611.8	612.6	619.8
47.5°	2291.6	1567.0	642.8	618.2	619.8	607.9	605.5	598.3	601.5	606.3	607.1
50°	2368.7	1610.7	623.8	600.7	606.3	598.3	584.0	580.9	580.9	588.8	587.2
52.5°	2422.7	1671.8	605.5	581.6	584.0	577.7	572.9	565.8	561.0	572.1	577.7
55°	2588.0	1773.5	600.7	565.8	565.0	558.6	549.9	542.7	540.3	541.9	553.0
57.5°	2572.1	1741.8	585.6	537.9	536.4	527.6	518.9	516.5	515.7	517.3	520.5
60°	2088.2	1286.5	522.8	506.2	503.8	502.2	493.4	483.9	479.1	483.9	479.9
62.5°	1381.8	861.3	460.9	468.0	469.6	465.6	451.3	441.8	443.4	448.9	440.2
65°	678.6	506.2	418.0	437.0	438.6	427.5	414.0	402.9	397.3	402.1	398.1
67.5°	387.8	387.0	383.0	402.9	402.1	390.9	369.5	360.0	350.4	352.0	349.6
70°	329.0	335.3	343.3	355.2	354.4	341.7	316.3	309.1	295.6	294.0	290.0
72.5°	259.0	270.2	287.6	296.4	289.2	273.3	256.7	244.7	232.8	225.7	228.1
75°	192.3	208.2	217.7	223.3	212.2	203.4	189.9	175.6	161.3	154.9	152.6
77.5°	139.8	144.6	153.4	157.3	150.2	141.4	133.5	119.2	105.7	96.9	94.6
80°	97.7	100.9	107.3	107.3	107.3	103.3	93.0	78.7	69.9	62.0	60.4
82.5°	68.3	71.5	77.9	74.7	73.9	69.1	62.8	51.6	42.1	36.6	35.0
85°	23.8	26.2	31.8	38.1	40.5	39.7	35.8	28.6	22.2	18.3	16.7
87.5°	5.6	5.6	6.4	5.6	5.6	6.4	5.6	5.6	5.6	4.0	3.2
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)