

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: P651231

Luminaire Tested: **GALN-SA2D-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10707.6 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

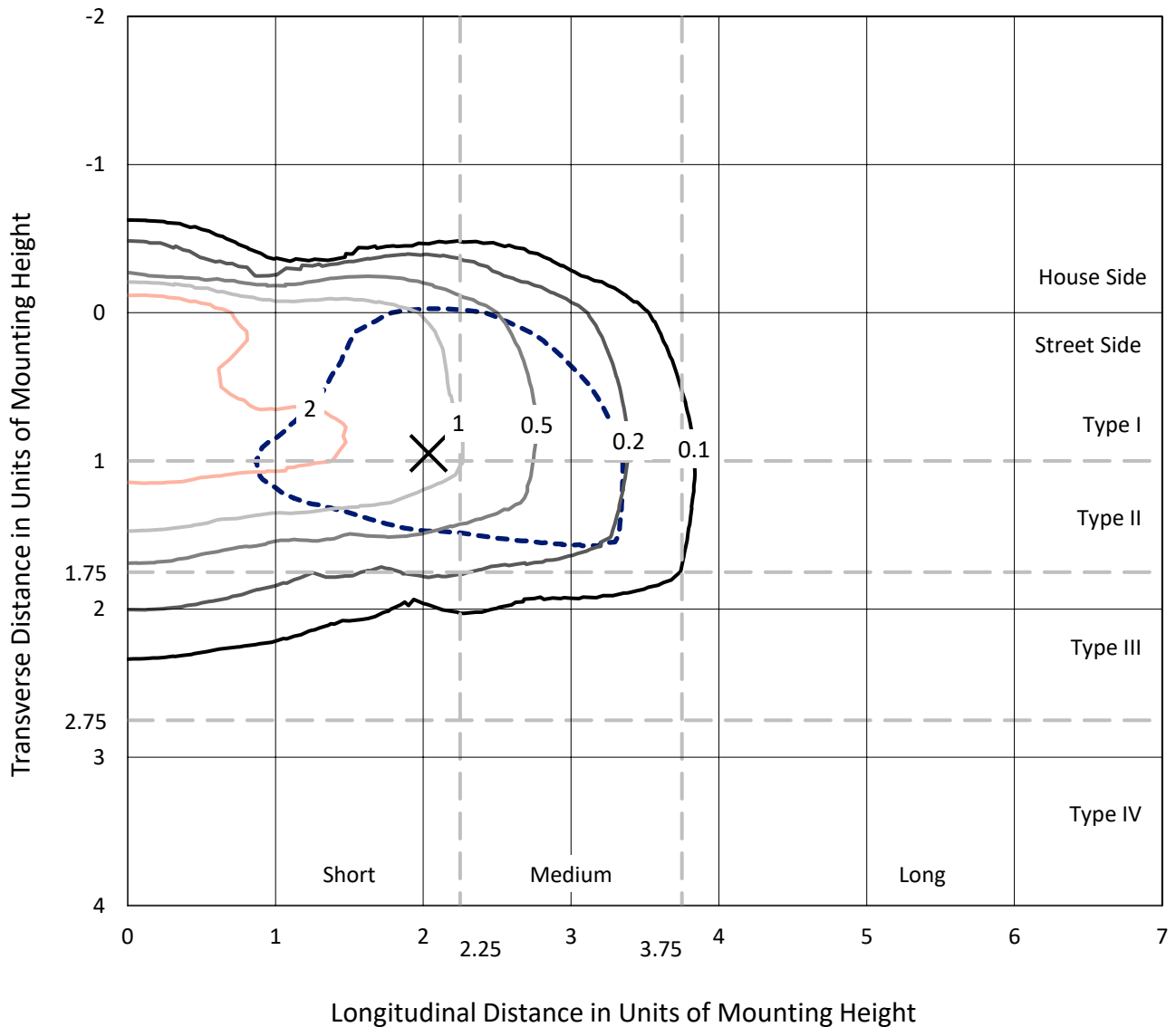
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651231
 CATALOG NUMBER: GALN-SA2D-840-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

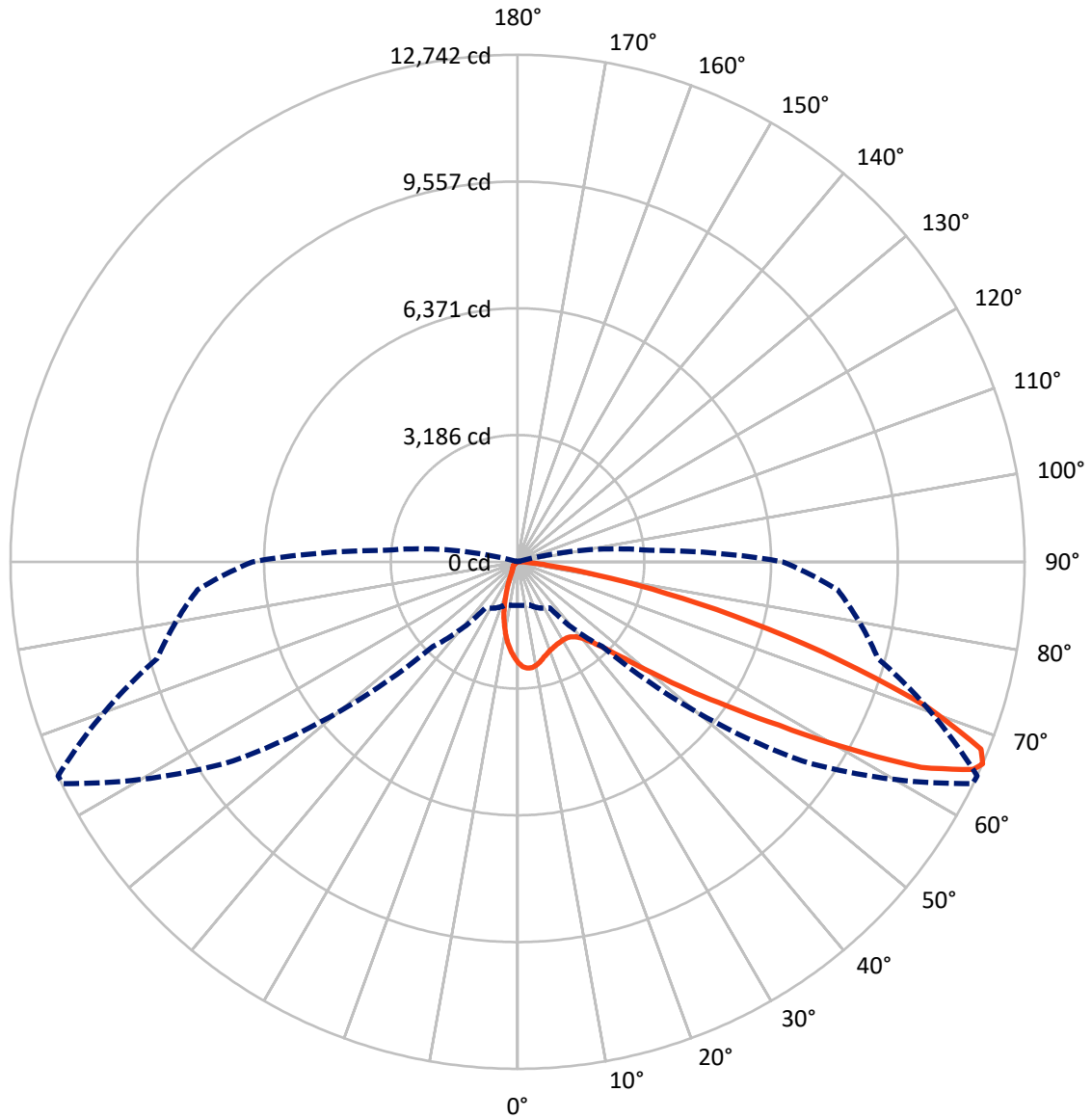
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

REPORT NUMBER: P651231
CATALOG NUMBER: GALN-SA2D-840-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P651231
 CATALOG NUMBER: GALN-SA2D-840-U-SL2-HSS

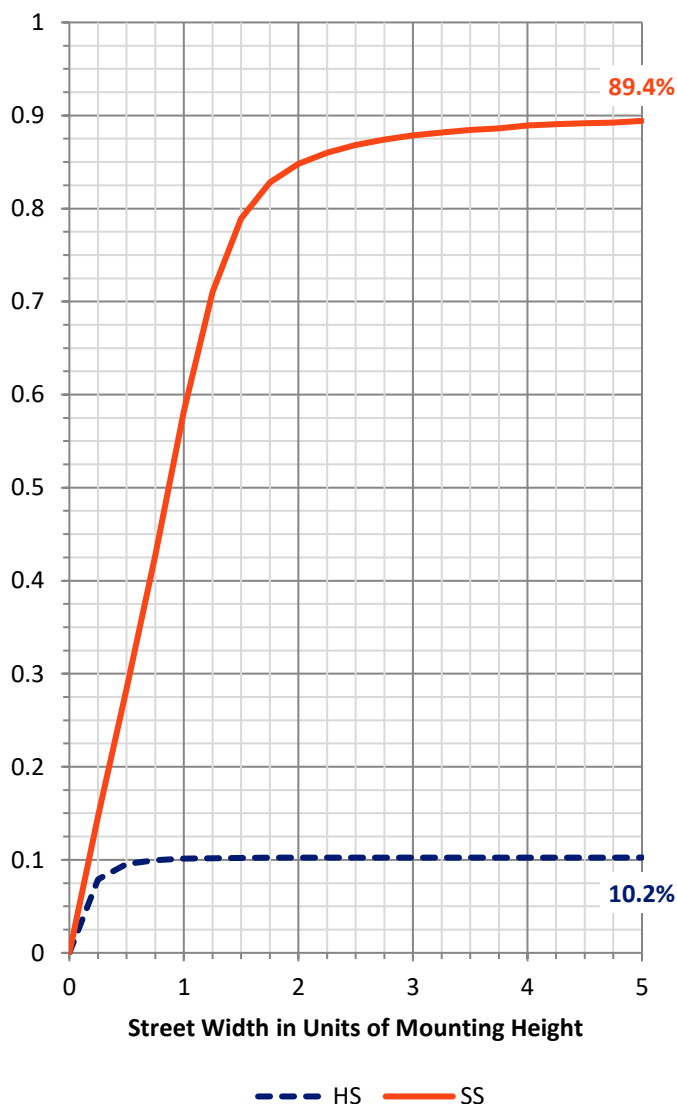
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1107.3	0.0	1107.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	9600.3	0.0	9600.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	10707.6	0.0	10707.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	1.9
10°-20°	452.5	4.2
20°-30°	648.2	6.1
30°-40°	946.7	8.8
40°-50°	1587.5	14.8
50°-60°	2649.2	24.7
60°-70°	2812.1	26.3
70°-80°	1273.6	11.9
80°-90°	130.3	1.2
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°	10707.6	100.0
0°-180°	10707.6	100.0

Coefficient of Utilization



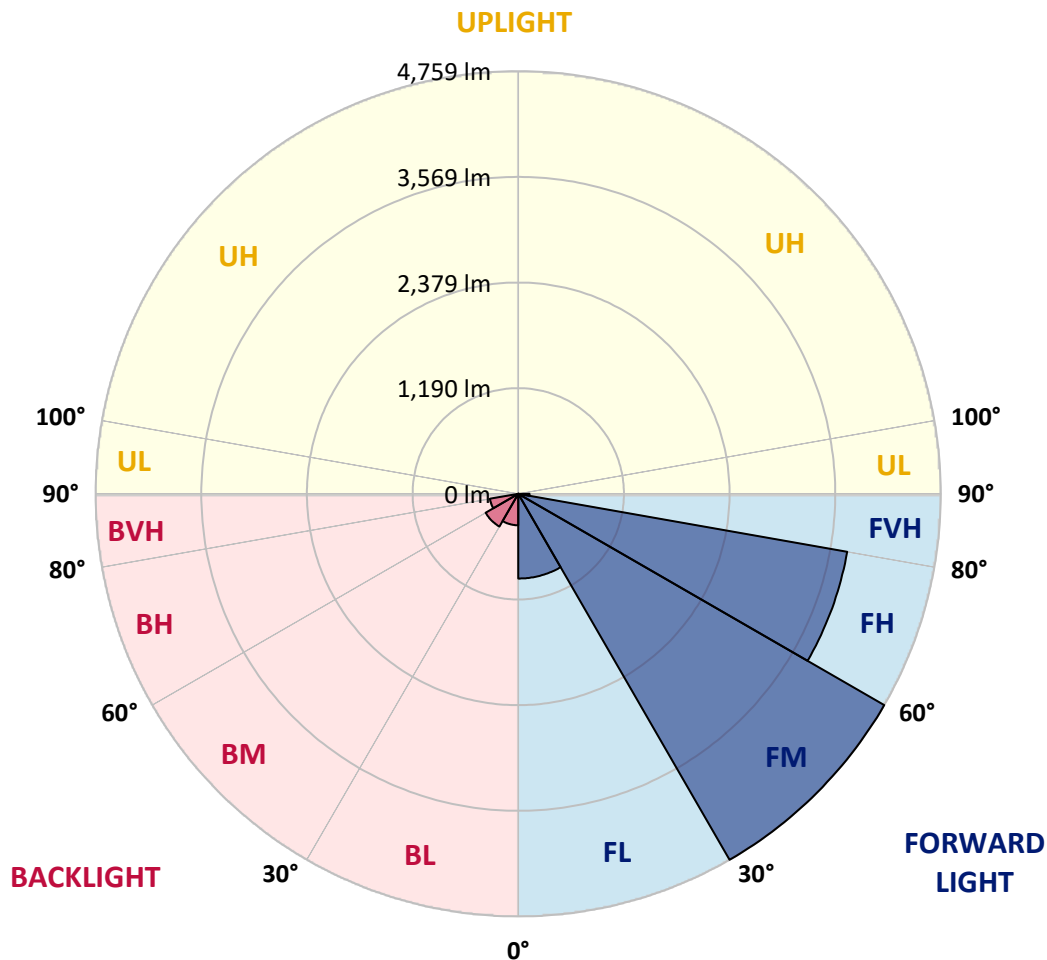
REPORT NUMBER: P651231
 CATALOG NUMBER: GALN-SA2D-840-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	954.1	8.9			
FM (30°-60°)	4758.7	44.4			
FH (60°-80°)	3761.3	35.1			G2/5000
FVH (80°-90°)	126.2	1.2			G2/225
BL (0°-30°)	354.2	3.3	B1/500		
BM (30°-60°)	424.7	4.0	B1/1000		
BH (60°-80°)	324.3	3.0	B1/500		G1/500
BVH (80°-90°)	4.1	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-G2

Type II Short





REPORT NUMBER: P651231

CATALOG NUMBER: GALN-SA2D-840-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1
2.5°	2675.9	2678.8	2682.4	2687.4	2691.0	2680.2	2665.0	2647.6	2644.0	2607.2	2562.3
5°	2532.7	2537.0	2568.8	2586.2	2625.3	2660.7	2683.1	2686.0	2684.6	2649.8	2578.3
7.5°	2328.7	2341.0	2372.1	2402.5	2475.6	2542.8	2622.3	2678.0	2681.6	2672.3	2583.3
10°	2163.1	2171.0	2186.9	2247.0	2307.7	2410.5	2521.8	2626.7	2635.4	2673.0	2578.9
12.5°	2033.6	2045.2	2064.7	2111.0	2184.1	2281.0	2407.5	2548.6	2566.6	2659.2	2566.6
15°	1943.2	1949.0	1968.5	2014.1	2085.0	2174.7	2302.7	2466.8	2482.8	2641.2	2564.5
17.5°	1900.6	1907.1	1920.8	1957.0	2015.5	2098.7	2223.9	2401.1	2421.3	2629.6	2572.5
20°	1912.2	1917.9	1918.7	1937.5	1977.3	2047.4	2166.0	2339.6	2365.6	2622.3	2585.5
22.5°	1977.9	1978.7	1970.0	1961.3	1975.1	2025.7	2130.6	2300.5	2327.3	2620.9	2600.6
25°	2076.3	2078.4	2064.1	2033.6	2006.2	2032.2	2122.6	2275.2	2299.0	2617.3	2610.0
27.5°	2212.3	2211.6	2207.2	2156.6	2078.4	2061.1	2129.1	2261.4	2281.7	2607.2	2613.7
30°	2402.5	2396.7	2387.3	2330.2	2210.8	2131.3	2156.6	2252.8	2271.6	2592.7	2604.2
32.5°	2589.8	2611.5	2610.0	2555.8	2406.9	2256.4	2213.8	2264.4	2278.1	2583.3	2590.5
35°	2808.2	2807.5	2863.2	2842.9	2668.7	2416.2	2311.3	2302.7	2313.5	2589.8	2584.0
37.5°	3010.7	3029.5	3116.3	3137.3	2978.1	2641.8	2449.5	2385.2	2388.8	2633.9	2600.0
40°	3263.1	3299.2	3428.7	3498.9	3358.5	2976.7	2653.4	2536.3	2537.0	2742.4	2659.9
42.5°	3588.5	3645.7	3766.4	3883.6	3808.4	3373.0	2959.3	2775.6	2774.2	2933.3	2797.3
45°	3984.2	4023.9	4161.4	4347.2	4299.4	3926.3	3404.9	3146.7	3127.8	3246.4	3041.1
47.5°	4325.5	4379.8	4519.3	4731.2	4948.2	4601.8	3937.1	3656.5	3644.2	3744.7	3459.1
50°	4474.5	4522.2	4669.0	4966.3	5492.0	5488.4	4729.8	4400.7	4379.8	4434.0	4105.6
52.5°	4311.1	4355.9	4504.1	4874.4	5748.1	6568.9	5878.2	5334.4	5309.1	5239.6	4878.1
55°	3751.3	3788.1	4007.3	4432.5	5649.7	7289.2	7460.6	6487.9	6389.5	6119.8	5752.4
57.5°	2986.8	2968.1	3104.0	3598.0	5072.6	7530.7	9084.9	7924.9	7749.1	6880.6	6492.2
60°	2069.8	2127.6	2182.6	2508.0	3814.2	7112.0	10095.2	9731.5	9500.0	7629.0	7201.0
62.5°	1521.6	1560.0	1596.1	1746.5	2398.1	5678.6	10273.8	11587.2	11381.8	8423.9	7877.1
65°	1203.4	1206.3	1220.8	1369.1	1580.2	3692.7	9415.4	12633.7	12580.9	9189.0	8151.2
66°	1096.4	1097.1	1119.5	1278.7	1418.2	3007.1	8727.6	12713.2	12742.2	9372.7	8071.0
67.5°	958.2	955.4	987.9	1149.1	1291.6	2168.2	7496.8	12390.6	12562.0	9513.7	7782.4
70°	742.8	739.2	778.9	964.0	1189.7	1446.4	4982.8	10639.1	10915.3	9225.2	6885.6
72.5°	494.7	497.5	565.6	760.9	1135.4	1273.5	2997.7	8093.4	8483.9	7618.2	5416.8
75°	288.5	293.6	371.0	565.6	985.7	1214.2	1696.6	5771.2	6020.6	5260.6	3374.5
77.5°	151.1	153.3	207.6	373.2	755.7	1127.4	1130.4	3686.9	3804.1	2556.6	1335.8
80°	80.3	78.1	111.3	224.9	520.0	990.0	917.0	1952.0	2029.3	759.3	337.7
82.5°	30.4	33.3	59.3	147.5	307.4	710.9	789.7	862.8	836.0	167.0	141.7
85°	5.8	7.2	25.3	87.5	154.7	297.2	582.1	423.1	392.0	62.9	81.7
87.5°	0.8	1.4	7.2	20.9	22.5	100.5	172.2	117.2	101.3	23.1	34.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651231

CATALOG NUMBER: GALN-SA2D-840-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1	2539.1
2.5°	2540.6	2521.1	2456.0	2391.6	2325.8	2266.5	2226.0	2160.2	2143.5	2119.7	2105.9
5°	2535.5	2490.0	2364.9	2228.2	2100.9	1963.5	1858.6	1757.4	1703.1	1675.7	1665.5
7.5°	2521.1	2448.7	2253.5	2039.4	1835.5	1630.1	1451.5	1315.5	1228.0	1168.0	1127.4
10°	2492.1	2392.4	2124.0	1829.7	1521.6	1250.4	1024.1	851.9	718.9	676.9	678.4
12.5°	2462.5	2329.4	1979.4	1596.8	1215.0	872.9	632.8	496.9	433.2	412.3	407.9
15°	2435.0	2269.4	1837.7	1371.2	904.7	565.6	407.9	360.1	342.8	339.2	338.4
17.5°	2420.6	2213.8	1686.5	1113.0	631.3	384.0	326.9	313.9	308.8	305.2	303.8
20°	2408.3	2165.2	1541.9	871.4	431.8	314.6	292.9	280.6	271.9	268.3	266.2
22.5°	2399.6	2115.4	1392.2	674.7	330.5	279.1	259.6	243.7	231.4	227.1	224.2
25°	2386.6	2060.4	1241.0	493.2	278.5	248.1	225.6	206.8	190.9	183.0	181.5
27.5°	2367.8	1998.2	1075.4	365.2	248.8	220.6	193.1	170.0	154.1	145.3	146.1
30°	2337.4	1933.1	909.8	290.0	224.9	192.3	162.7	140.3	125.1	118.6	117.9
32.5°	2301.2	1854.3	757.9	248.8	203.2	167.0	136.0	116.4	104.9	99.8	99.1
35°	2267.3	1774.8	603.2	223.5	180.8	143.9	114.3	97.6	89.0	84.6	85.4
37.5°	2248.4	1703.9	470.1	203.2	162.7	123.6	98.4	83.9	75.9	72.3	71.6
40°	2260.8	1646.0	373.9	185.1	142.5	106.3	84.6	72.3	64.3	59.3	59.3
42.5°	2318.6	1620.7	301.6	167.8	123.6	91.8	73.8	62.2	53.5	48.4	49.2
45°	2495.1	1647.4	252.4	151.9	106.3	79.6	63.7	51.4	43.4	39.8	39.0
47.5°	2787.9	1748.0	218.4	135.2	91.2	68.0	53.5	42.6	34.7	31.8	31.1
50°	3300.0	1955.6	193.1	118.6	77.4	57.9	44.2	34.0	27.5	24.6	24.6
52.5°	4004.4	2408.3	175.0	99.8	65.1	49.2	36.2	27.5	21.7	19.5	18.8
55°	4740.6	2885.6	165.6	83.9	54.2	40.5	28.9	21.7	16.7	14.5	13.7
57.5°	5448.6	3260.2	154.7	68.0	43.4	31.1	22.5	16.7	11.6	10.1	9.4
60°	6127.7	3563.2	131.6	54.2	34.0	22.5	16.7	11.6	8.0	6.5	6.5
62.5°	6735.2	3739.7	103.4	43.4	26.1	15.9	10.8	8.7	5.8	4.4	4.4
65°	6806.0	3510.4	78.1	33.3	18.8	10.1	6.5	6.5	4.4	2.9	2.9
66°	6663.6	3315.9	68.7	30.4	16.7	8.7	5.8	5.0	3.6	2.2	2.2
67.5°	6345.4	2984.0	59.3	26.1	13.7	6.5	4.4	4.4	2.9	1.4	1.4
70°	5482.6	2437.2	47.0	19.5	10.1	5.0	2.9	2.9	2.2	1.4	1.4
72.5°	4178.7	1819.6	38.3	14.5	7.2	3.6	2.2	2.2	2.2	1.4	1.4
75°	2520.4	979.9	29.7	10.8	6.5	2.9	1.4	2.2	2.9	2.2	1.4
77.5°	928.6	333.4	23.1	8.7	5.0	2.9	1.4	1.4	2.9	2.2	2.2
80°	227.8	86.8	16.7	7.2	5.0	2.9	1.4	1.4	2.9	2.9	2.9
82.5°	105.6	36.9	11.6	6.5	5.0	2.9	1.4	1.4	2.2	2.9	2.9
85°	60.7	17.3	9.4	7.2	5.0	2.9	1.4	1.4	2.2	2.9	2.9
87.5°	24.6	8.7	8.7	7.2	5.8	3.6	1.4	1.4	1.4	2.2	2.2
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)