

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: P452429

Luminaire Tested: **GALN-SA3B-827-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452429
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-SA3B-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA 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: 10220 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

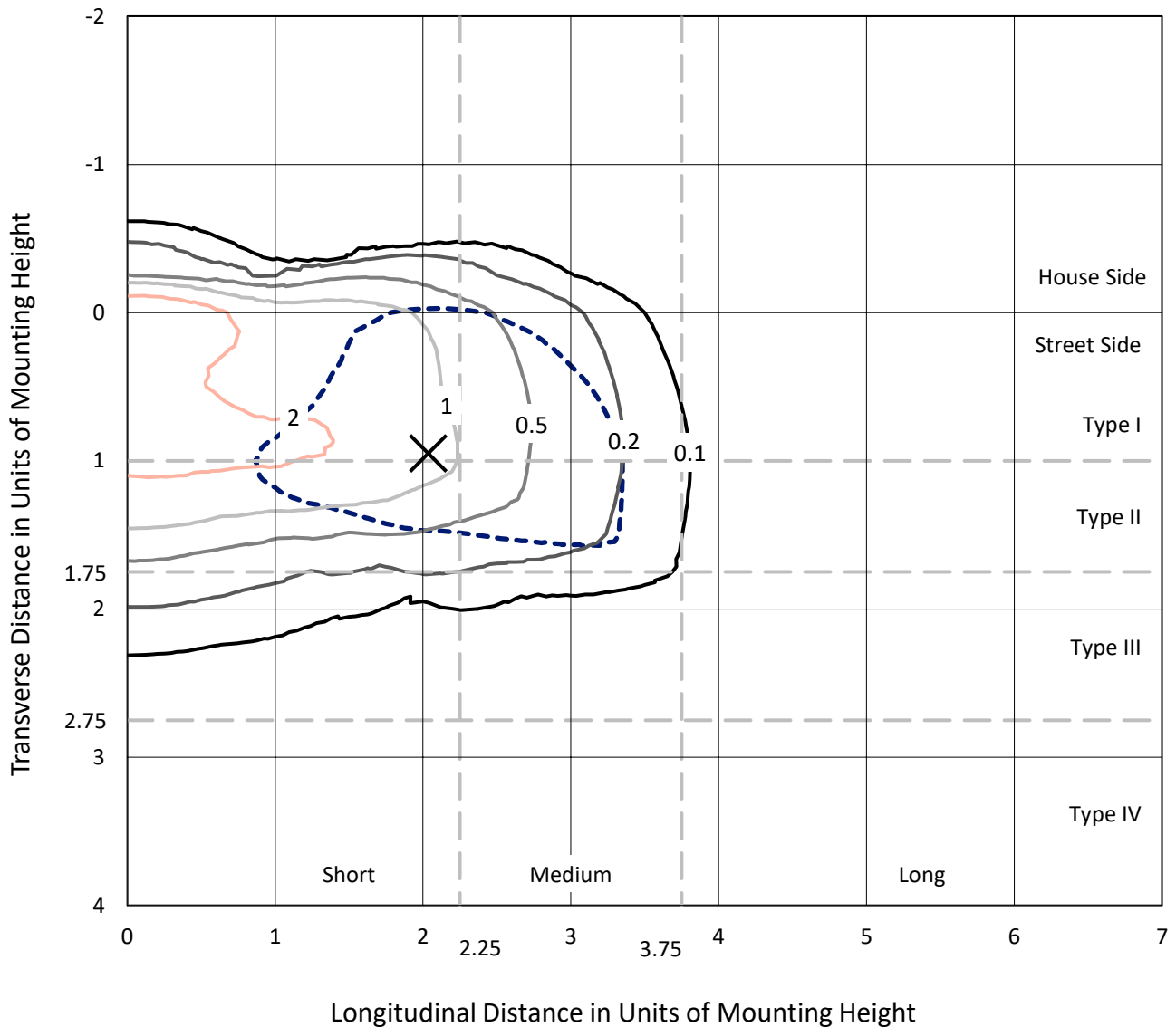
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452429
 CATALOG NUMBER: GALN-SA3B-827-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

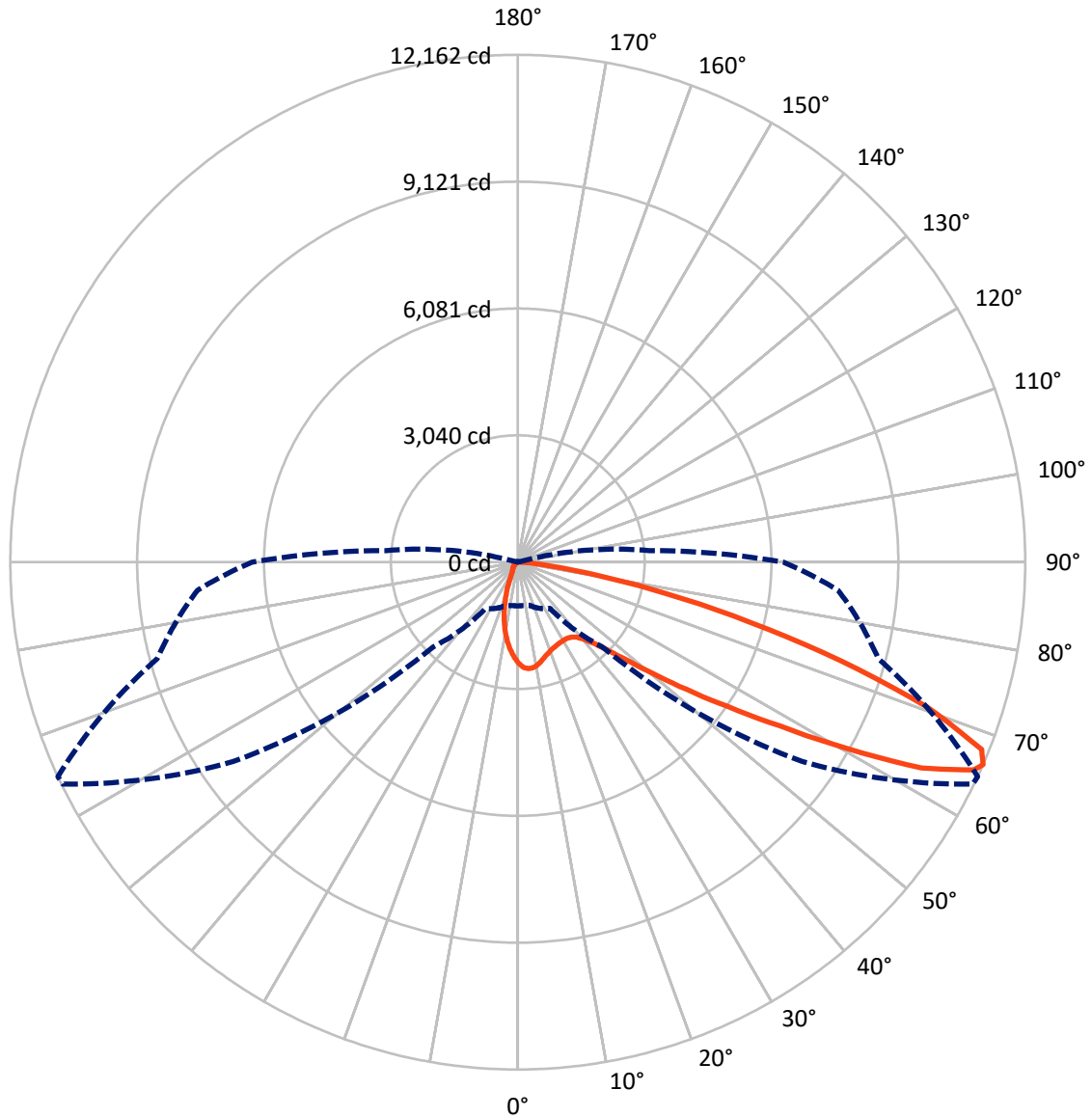
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

REPORT NUMBER: P452429
CATALOG NUMBER: GALN-SA3B-827-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452429

CATALOG NUMBER: GALN-SA3B-827-U-SL2-HSS

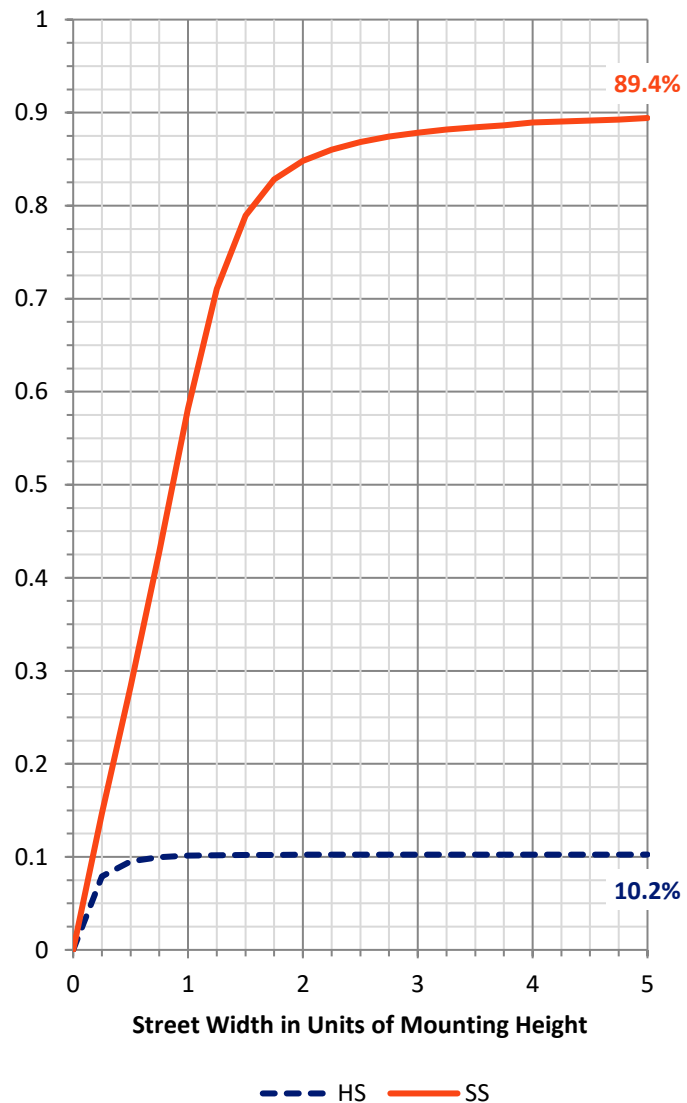
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1056.9	0.0	1056.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	9163.1	0.0	9163.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	10220.0	0.0	10220.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.2	1.9
10°-20°	431.9	4.2
20°-30°	618.6	6.1
30°-40°	903.6	8.8
40°-50°	1515.2	14.8
50°-60°	2528.6	24.7
60°-70°	2684.0	26.3
70°-80°	1215.6	11.9
80°-90°	124.4	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°	10220.0	100.0
0°-180°	10220.0	100.0



REPORT NUMBER: P452429

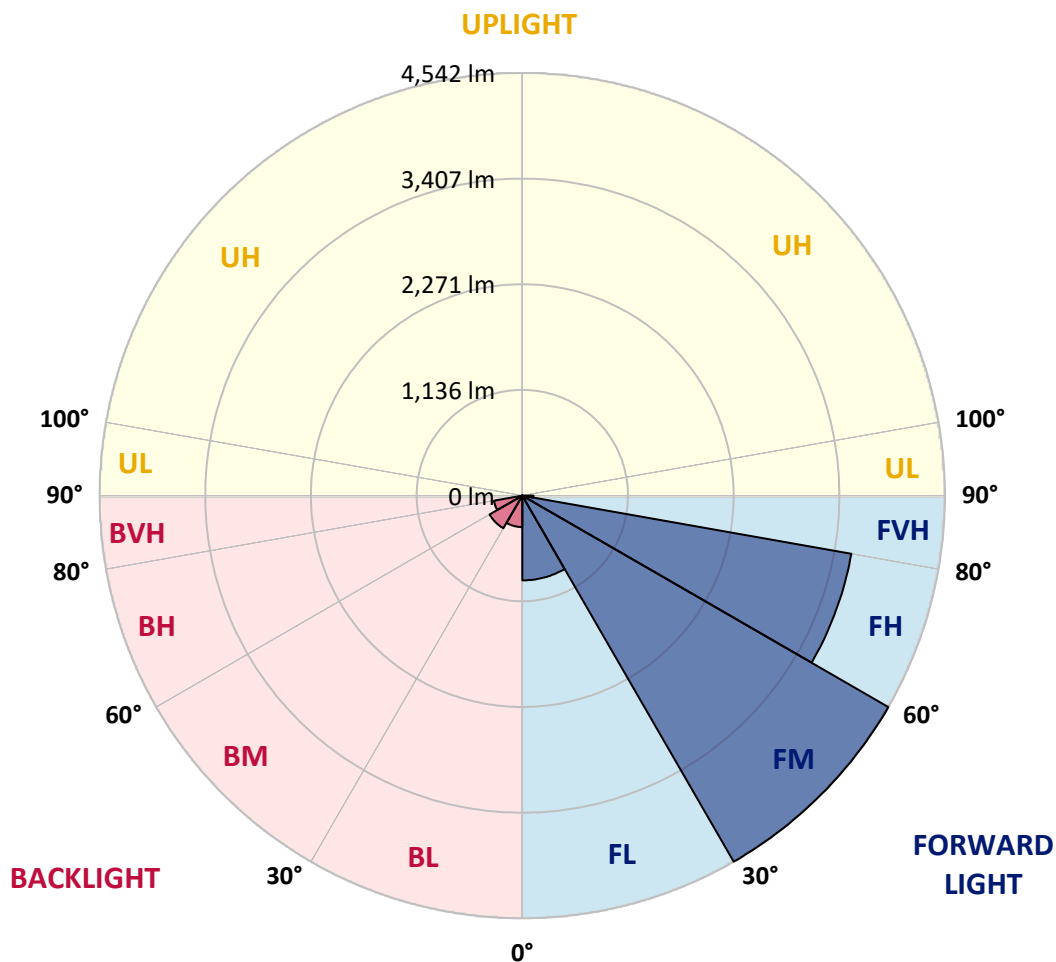
CATALOG NUMBER: GALN-SA3B-827-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.6	8.9			
FM (30°-60°)	4542.0	44.4			
FH (60°-80°)	3590.0	35.1			G2/5000
FVH (80°-90°)	120.4	1.2			G2/225
BL (0°-30°)	338.1	3.3	B1/500		
BM (30°-60°)	405.3	4.0	B1/1000		
BH (60°-80°)	309.5	3.0	B1/500		G1/500
BVH (80°-90°)	4.0	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: P452429

CATALOG NUMBER: GALN-SA3B-827-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5
2.5°	2554.0	2556.8	2560.2	2565.0	2568.5	2558.1	2543.6	2527.1	2523.6	2488.4	2445.6
5°	2417.3	2421.5	2451.8	2468.4	2505.7	2539.5	2560.9	2563.7	2562.3	2529.2	2460.8
7.5°	2222.7	2234.4	2264.1	2293.1	2362.8	2427.0	2502.9	2556.1	2559.5	2550.5	2465.6
10°	2064.6	2072.2	2087.4	2144.7	2202.7	2300.7	2407.0	2507.1	2515.3	2551.2	2461.5
12.5°	1941.0	1952.1	1970.7	2014.9	2084.6	2177.1	2297.9	2432.5	2449.8	2538.1	2449.8
15°	1854.8	1860.3	1878.9	1922.4	1990.0	2075.6	2197.8	2354.5	2369.7	2520.9	2447.7
17.5°	1814.0	1820.2	1833.4	1867.9	1923.8	2003.2	2122.6	2291.7	2311.0	2509.8	2455.3
20°	1825.1	1830.6	1831.3	1849.2	1887.2	1954.2	2067.4	2233.0	2257.9	2502.9	2467.7
22.5°	1887.9	1888.6	1880.3	1872.0	1885.1	1933.4	2033.5	2195.7	2221.3	2501.5	2482.2
25°	1981.8	1983.8	1970.0	1941.0	1914.8	1939.7	2025.9	2171.6	2194.4	2498.1	2491.2
27.5°	2111.5	2110.8	2106.7	2058.4	1983.8	1967.3	2032.2	2158.5	2177.8	2488.4	2494.6
30°	2293.1	2287.6	2278.6	2224.1	2110.2	2034.2	2058.4	2150.2	2168.1	2474.6	2485.7
32.5°	2471.9	2492.6	2491.2	2439.4	2297.2	2153.6	2112.9	2161.2	2174.4	2465.6	2472.5
35°	2680.3	2679.6	2732.8	2713.5	2547.1	2306.2	2206.1	2197.8	2208.2	2471.9	2466.3
37.5°	2873.6	2891.5	2974.4	2994.4	2842.5	2521.6	2337.9	2276.5	2280.0	2514.0	2481.5
40°	3114.5	3149.0	3272.6	3339.5	3205.6	2841.2	2532.6	2420.8	2421.5	2617.5	2538.8
42.5°	3425.1	3479.7	3594.9	3706.8	3635.0	3219.4	2824.6	2649.3	2647.9	2799.7	2670.0
45°	3802.7	3840.7	3971.8	4149.2	4103.7	3747.5	3249.8	3003.4	2985.4	3098.6	2902.6
47.5°	4128.5	4180.3	4313.5	4515.7	4722.8	4392.2	3757.8	3490.0	3478.3	3574.2	3301.6
50°	4270.7	4316.3	4456.4	4740.1	5241.9	5238.5	4514.4	4200.3	4180.3	4232.0	3918.7
52.5°	4114.7	4157.5	4299.0	4652.4	5486.3	6269.7	5610.5	5091.4	5067.3	5001.0	4655.9
55°	3580.4	3615.6	3824.8	4230.7	5392.4	6957.2	7120.8	6192.4	6098.5	5841.1	5490.4
57.5°	2850.8	2832.9	2962.6	3434.1	4841.6	7187.8	8671.2	7564.0	7396.2	6567.2	6196.6
60°	1975.6	2030.8	2083.2	2393.9	3640.5	6788.1	9635.5	9288.3	9067.4	7281.7	6873.0
62.5°	1452.3	1488.9	1523.4	1667.0	2288.9	5420.0	9806.0	11059.5	10863.5	8040.3	7518.4
65°	1148.6	1151.4	1165.2	1306.7	1508.2	3524.5	8986.6	12058.3	12007.9	8770.6	7780.0
66°	1046.4	1047.1	1068.5	1220.4	1353.6	2870.1	8330.2	12134.3	12161.9	8945.9	7703.4
67.5°	914.6	911.8	942.9	1096.8	1232.8	2069.4	7155.3	11826.4	11990.0	9080.5	7428.0
70°	708.9	705.5	743.4	920.1	1135.5	1380.5	4756.0	10154.6	10418.2	8805.1	6572.1
72.5°	472.1	474.9	539.8	726.2	1083.7	1215.6	2861.2	7724.8	8097.6	7271.3	5170.1
75°	275.4	280.2	354.1	539.8	940.8	1159.0	1619.4	5508.4	5746.5	5021.0	3220.8
77.5°	144.3	146.3	198.1	356.2	721.3	1076.1	1078.9	3519.0	3630.8	2440.1	1274.9
80°	76.6	74.5	106.3	214.7	496.3	945.0	875.3	1863.0	1936.9	724.8	322.4
82.5°	29.0	31.8	56.6	140.8	293.4	678.5	753.8	823.5	798.0	159.5	135.3
85°	5.5	6.9	24.2	83.5	147.7	283.7	555.7	403.8	374.1	60.1	78.0
87.5°	0.7	1.4	6.9	20.0	21.4	95.9	164.3	111.8	96.6	22.1	32.4
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: P452429

CATALOG NUMBER: GALN-SA3B-827-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5
2.5°	2424.9	2406.3	2344.2	2282.7	2219.9	2163.3	2124.7	2061.8	2046.0	2023.2	2010.1
5°	2420.1	2376.6	2257.2	2126.7	2005.2	1874.1	1774.0	1677.4	1625.6	1599.4	1589.7
7.5°	2406.3	2337.3	2150.9	1946.6	1751.9	1555.9	1385.4	1255.6	1172.1	1114.8	1076.1
10°	2378.7	2283.4	2027.3	1746.4	1452.3	1193.5	977.4	813.1	686.1	646.1	647.5
12.5°	2350.4	2223.4	1889.3	1524.1	1159.7	833.2	604.0	474.2	413.5	393.5	389.3
15°	2324.1	2166.1	1754.0	1308.8	863.5	539.8	389.3	343.8	327.2	323.7	323.0
17.5°	2310.3	2112.9	1609.7	1062.3	602.6	366.5	312.0	299.6	294.7	291.3	289.9
20°	2298.6	2066.7	1471.7	831.8	412.1	300.3	279.6	267.8	259.5	256.1	254.0
22.5°	2290.3	2019.0	1328.8	644.0	315.5	266.4	247.8	232.6	220.9	216.7	214.0
25°	2277.9	1966.6	1184.5	470.8	265.8	236.8	215.4	197.4	182.2	174.6	173.3
27.5°	2259.9	1907.2	1026.4	348.6	237.5	210.5	184.3	162.2	147.0	138.7	139.4
30°	2231.0	1845.1	868.4	276.8	214.7	183.6	155.3	133.9	119.4	113.2	112.5
32.5°	2196.4	1769.9	723.4	237.5	194.0	159.5	129.8	111.1	100.1	95.3	94.6
35°	2164.0	1693.9	575.7	213.3	172.6	137.4	109.1	93.2	84.9	80.8	81.5
37.5°	2146.1	1626.3	448.7	194.0	155.3	118.0	93.9	80.1	72.5	69.0	68.3
40°	2157.8	1571.1	356.9	176.7	136.0	101.5	80.8	69.0	61.4	56.6	56.6
42.5°	2213.0	1546.9	287.8	160.1	118.0	87.7	70.4	59.4	51.1	46.2	46.9
45°	2381.4	1572.4	240.9	145.0	101.5	75.9	60.7	49.0	41.4	38.0	37.3
47.5°	2661.0	1668.4	208.5	129.1	87.0	64.9	51.1	40.7	33.1	30.4	29.7
50°	3149.7	1866.5	184.3	113.2	73.9	55.2	42.1	32.4	26.2	23.5	23.5
52.5°	3822.0	2298.6	167.0	95.3	62.1	46.9	34.5	26.2	20.7	18.6	17.9
55°	4524.7	2754.2	158.1	80.1	51.8	38.7	27.6	20.7	15.9	13.8	13.1
57.5°	5200.5	3111.7	147.7	64.9	41.4	29.7	21.4	15.9	11.0	9.7	9.0
60°	5848.7	3401.0	125.6	51.8	32.4	21.4	15.9	11.0	7.6	6.2	6.2
62.5°	6428.5	3569.4	98.7	41.4	24.8	15.2	10.4	8.3	5.5	4.1	4.1
65°	6496.1	3350.6	74.5	31.8	17.9	9.7	6.2	6.2	4.1	2.8	2.8
66°	6360.2	3164.9	65.6	29.0	15.9	8.3	5.5	4.8	3.5	2.1	2.1
67.5°	6056.4	2848.1	56.6	24.8	13.1	6.2	4.1	4.1	2.8	1.4	1.4
70°	5232.9	2326.2	44.9	18.6	9.7	4.8	2.8	2.8	2.1	1.4	1.4
72.5°	3988.4	1736.7	36.6	13.8	6.9	3.5	2.1	2.1	2.1	1.4	1.4
75°	2405.6	935.3	28.3	10.4	6.2	2.8	1.4	2.1	2.8	2.1	1.4
77.5°	886.3	318.2	22.1	8.3	4.8	2.8	1.4	1.4	2.8	2.1	2.1
80°	217.4	82.8	15.9	6.9	4.8	2.8	1.4	1.4	2.8	2.8	2.8
82.5°	100.8	35.2	11.0	6.2	4.8	2.8	1.4	1.4	2.1	2.8	2.8
85°	58.0	16.6	9.0	6.9	4.8	2.8	1.4	1.4	2.1	2.8	2.8
87.5°	23.5	8.3	8.3	6.9	5.5	3.5	1.4	1.4	1.4	2.1	2.1
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)