

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: P319159

Luminaire Tested: **GLEON-SA5B-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5B-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20850 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

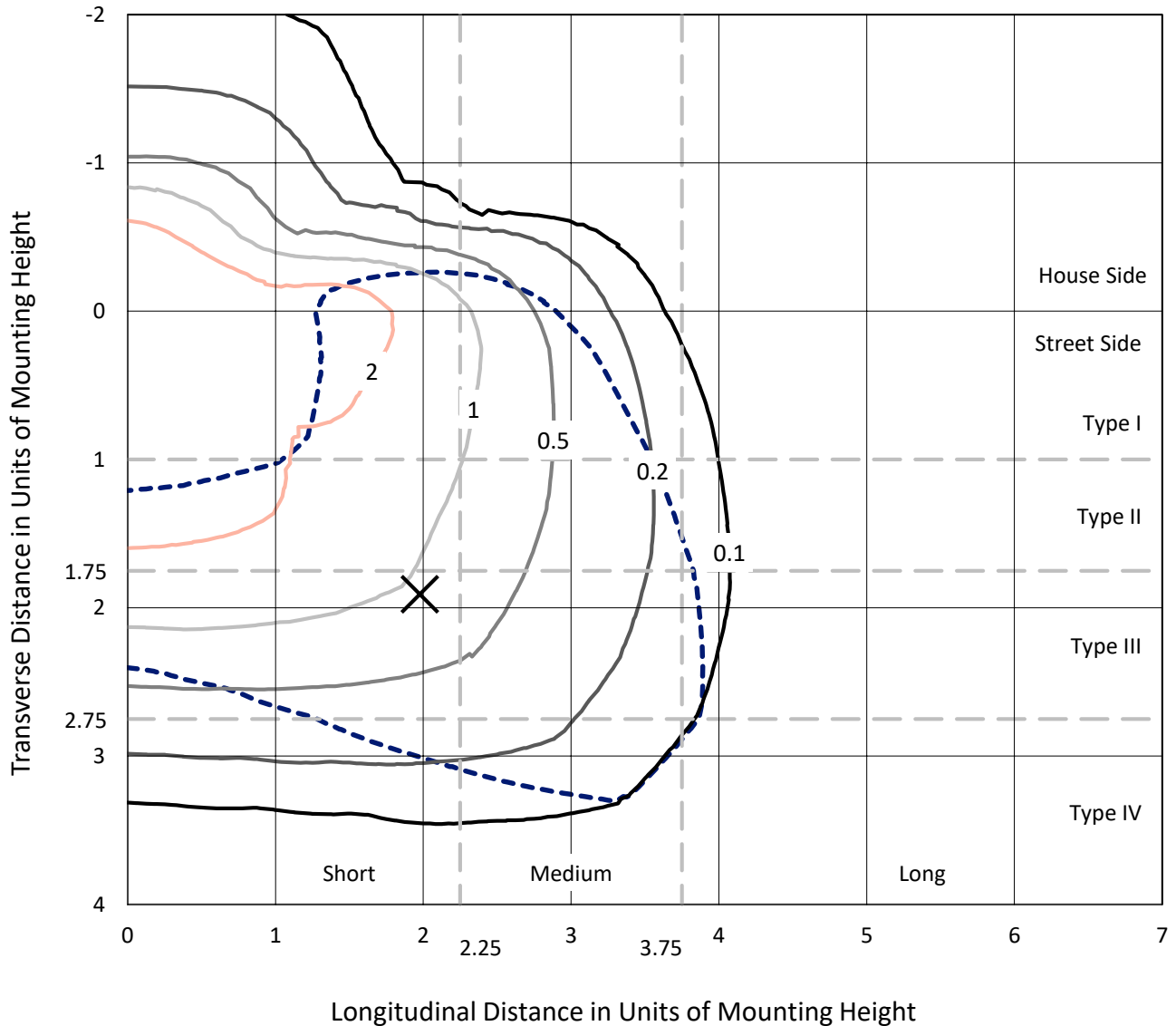
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

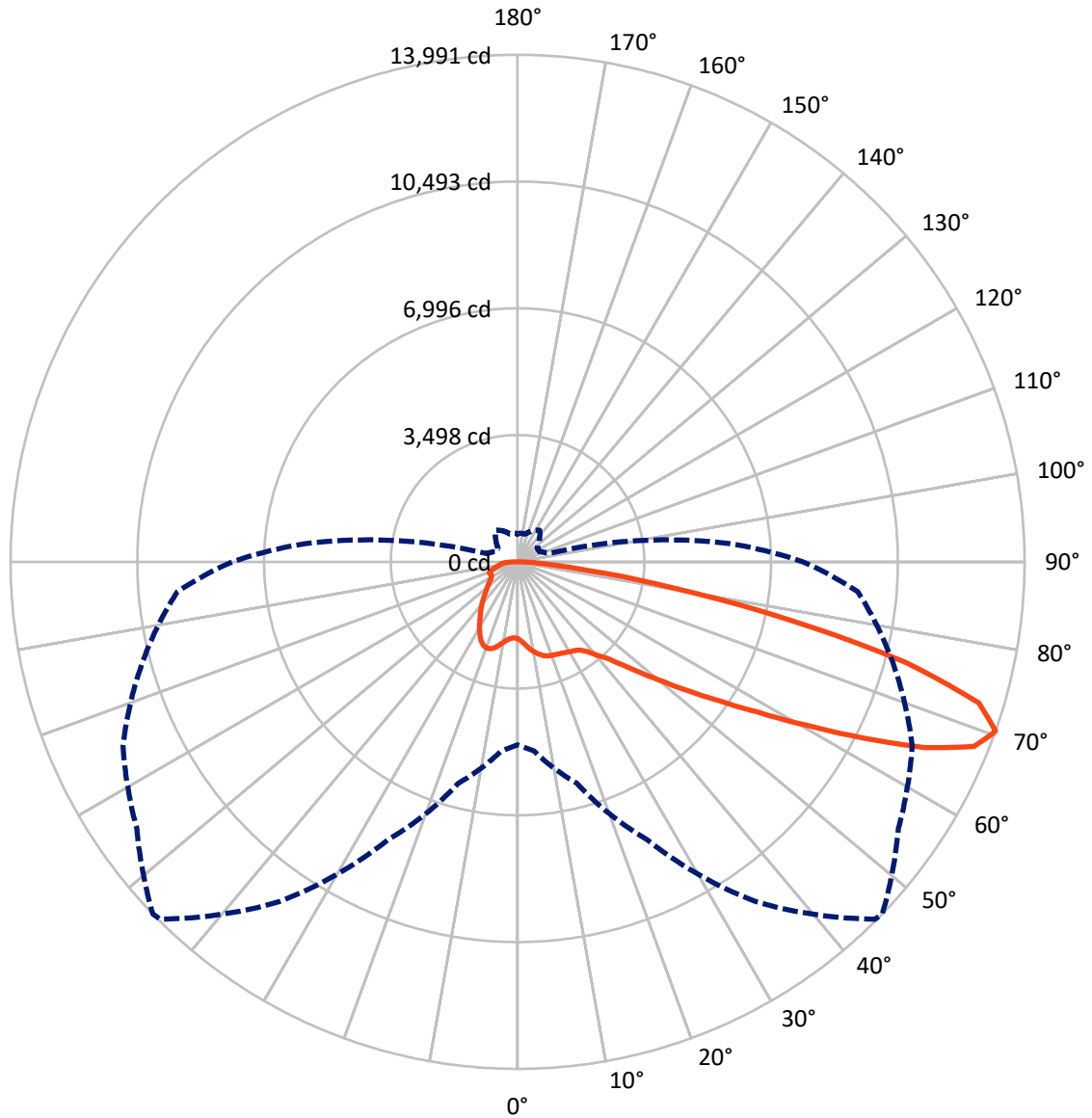
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GLEON-SA5B-827-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4778.8	0.0	4778.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	16071.2	0.0	16071.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	20850.0	0.0	20850.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.5	1.0
10°-20°	721.5	3.5
20°-30°	1203.0	5.8
30°-40°	1707.1	8.2
40°-50°	2511.0	12.0
50°-60°	4252.4	20.4
60°-70°	6036.2	29.0
70°-80°	3667.1	17.6
80°-90°	535.2	2.6
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°	20850.0	100.0
0°-180°	20850.0	100.0

Coefficient of Utilization



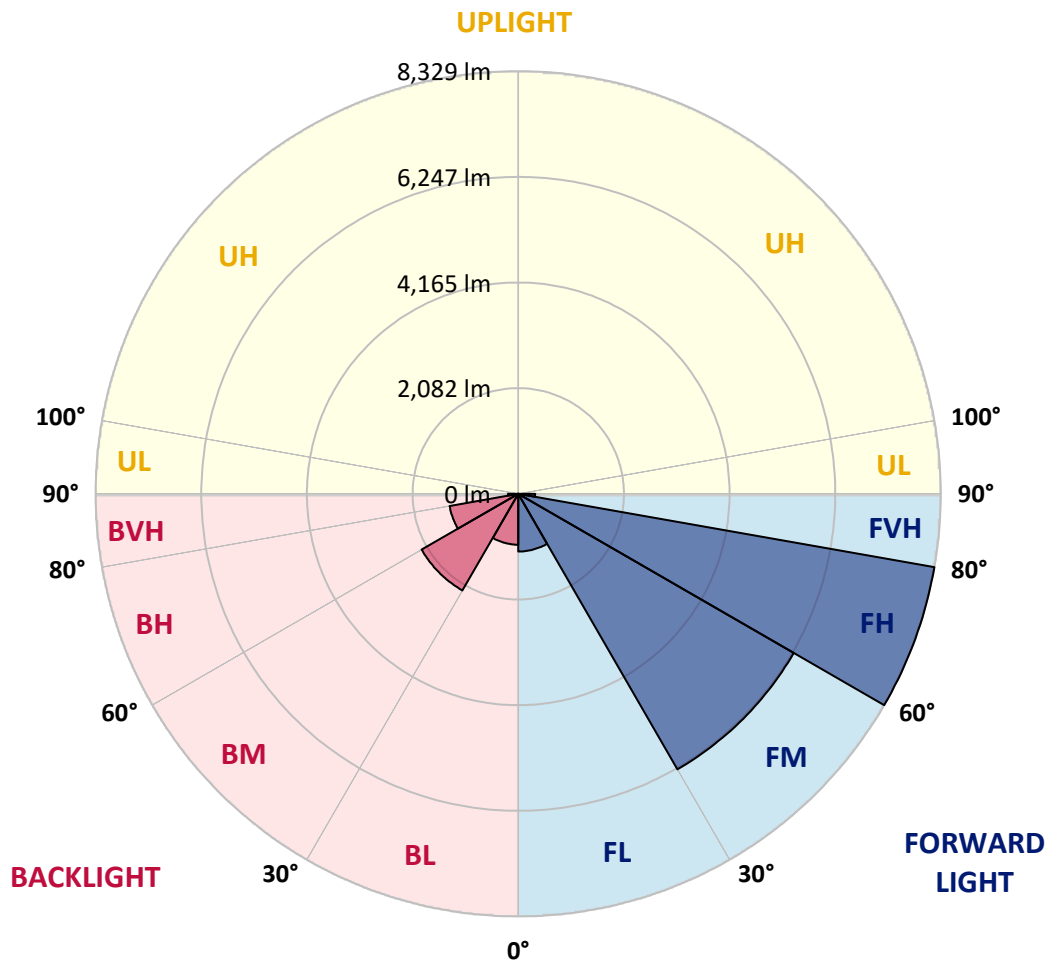
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1137.7	5.5			
FM (30°-60°)	6270.7	30.1			
FH (60°-80°)	8329.5	39.9			G4/12000
FVH (80°-90°)	333.4	1.6			G3/500
BL (0°-30°)	1003.3	4.8	B3/2500		
BM (30°-60°)	2199.8	10.6	B2/2500		
BH (60°-80°)	1373.9	6.6	B3/2500		G3/2500
BVH (80°-90°)	201.8	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2124.2	2124.2	2124.2	2124.2	2124.2	2124.2	2124.2	2124.2	2124.2	2124.2	2124.2
2.5°	2230.5	2232.0	2234.8	2227.7	2207.7	2202.0	2199.8	2179.1	2165.6	2145.6	2128.5
5°	2408.9	2410.3	2406.1	2386.1	2341.8	2309.0	2306.2	2259.1	2216.3	2170.6	2136.3
7.5°	2595.1	2597.3	2583.7	2545.9	2483.8	2426.7	2423.2	2359.0	2294.0	2224.8	2173.4
10°	2760.0	2751.4	2729.3	2676.5	2603.0	2533.1	2530.2	2463.1	2388.2	2304.7	2236.2
12.5°	2869.9	2862.7	2834.2	2770.0	2689.3	2625.1	2619.4	2557.3	2484.5	2393.2	2311.2
15°	2930.5	2935.5	2897.0	2824.2	2745.7	2691.5	2686.5	2642.2	2577.3	2485.3	2391.1
17.5°	2938.4	2942.6	2905.5	2833.5	2769.2	2732.1	2730.0	2700.7	2653.7	2565.2	2466.7
20°	2892.7	2895.5	2864.9	2805.6	2763.5	2752.1	2751.4	2738.6	2703.6	2625.1	2529.5
22.5°	2826.3	2828.5	2806.4	2763.5	2749.3	2767.1	2772.1	2767.1	2742.1	2668.6	2578.7
25°	2809.9	2808.5	2785.7	2742.1	2754.3	2792.1	2798.5	2800.6	2783.5	2719.3	2641.5
27.5°	2889.1	2884.1	2840.6	2770.7	2778.5	2824.2	2832.8	2853.4	2842.7	2786.4	2712.9
30°	3118.2	3109.6	3020.4	2879.1	2840.6	2864.1	2874.9	2907.7	2909.8	2862.7	2807.8
32.5°	3504.9	3494.2	3334.4	3081.8	2945.5	2904.8	2914.8	2964.0	2990.4	2954.1	2894.8
35°	3993.7	3981.6	3771.8	3426.4	3121.0	2982.6	2989.7	3029.0	3081.8	3030.4	2951.9
37.5°	4503.1	4473.9	4272.0	3831.7	3400.0	3148.8	3148.8	3153.8	3178.8	3071.8	3019.0
40°	5009.8	4980.5	4797.8	4308.4	3761.1	3410.7	3394.3	3283.7	3263.7	3171.7	3153.8
42.5°	5480.7	5472.1	5364.4	4847.1	4184.9	3668.3	3645.5	3457.8	3462.1	3405.0	3405.7
45°	5981.6	5981.6	5893.8	5390.8	4678.7	4082.2	4059.3	3783.2	3826.0	3799.6	3863.1
47.5°	6390.5	6403.3	6391.2	5957.3	5253.1	4608.0	4566.7	4234.1	4354.0	4444.6	4629.4
50°	6807.9	6827.9	6830.0	6578.8	5947.4	5233.1	5186.0	4832.8	5100.4	5360.1	5723.3
52.5°	7413.7	7458.6	7279.5	7198.9	6797.9	5975.2	5928.8	5602.7	6049.4	6414.0	7039.8
55°	7975.2	7936.0	7808.3	7858.2	7708.4	6820.0	6785.0	6498.9	7106.9	7580.6	8393.4
57.5°	8279.2	8276.3	8404.8	8618.8	8690.2	7861.8	7832.5	7554.2	8299.2	8655.2	9664.2
60°	8636.0	8641.0	8959.2	9445.1	9739.1	9159.0	9146.1	8934.9	9457.3	9658.5	10661.0
62.5°	8685.9	8775.8	9323.8	10160.1	10720.9	10674.5	10703.1	10178.6	10493.3	10459.1	11405.2
65°	8111.5	8230.0	9221.8	10376.3	11697.1	12332.1	12358.5	11429.5	11310.3	11143.3	11671.4
67.5°	6934.2	7109.7	8187.2	9906.1	12018.9	13557.2	13594.4	12399.2	11988.2	11375.2	11030.6
70°	5046.2	5240.9	6325.5	8460.4	11445.2	13949.0	13991.1	12828.0	12013.9	10715.2	9416.6
72.5°	3048.2	3200.9	4095.0	6228.5	9659.9	13235.4	13310.4	12284.3	10968.5	9076.2	6953.4
75°	1338.6	1438.5	1980.1	3589.1	6915.6	10950.7	11044.2	10514.7	8912.1	6596.0	4110.0
77.5°	570.1	598.7	812.0	1559.1	3909.5	7482.9	7611.3	7682.7	6046.5	3589.1	1736.8
80°	355.3	366.8	459.5	705.7	1829.5	4202.7	4341.2	4520.3	3002.6	1319.3	606.5
82.5°	216.2	229.0	305.4	426.7	952.6	1905.2	1971.5	2097.8	1165.2	570.1	314.0
85°	129.9	139.1	186.9	269.7	542.3	749.2	748.5	827.7	548.7	366.8	165.5
87.5°	62.1	69.2	99.9	139.9	273.3	281.1	263.3	298.3	333.2	240.5	83.5
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°	2124.2	2124.2	2124.2	2124.2	2124.2	2124.2	2124.2	2124.2	2124.2	2124.2	2124.2
2.5°	2122.8	2119.9	2110.6	2103.5	2102.1	2097.8	2094.2	2096.4	2099.2	2099.9	2099.9
5°	2122.1	2114.2	2102.1	2097.1	2103.5	2112.1	2122.8	2137.1	2145.6	2152.0	2156.3
7.5°	2156.3	2141.3	2127.8	2124.9	2137.8	2160.6	2184.9	2214.8	2235.5	2249.8	2252.6
10°	2213.4	2194.8	2181.3	2184.1	2207.0	2239.8	2274.1	2312.6	2344.0	2363.2	2364.7
12.5°	2279.0	2261.2	2248.4	2260.5	2298.3	2338.3	2373.9	2407.5	2436.0	2455.3	2455.3
15°	2354.7	2341.8	2326.9	2354.7	2406.1	2441.7	2456.7	2473.1	2488.8	2503.1	2500.2
17.5°	2427.5	2415.3	2407.5	2440.3	2493.8	2510.2	2500.2	2488.1	2488.1	2496.0	2497.4
20°	2490.3	2479.5	2484.5	2516.7	2544.5	2527.4	2490.3	2451.7	2436.0	2440.3	2444.6
22.5°	2545.2	2540.2	2555.2	2570.2	2550.2	2490.3	2421.8	2369.7	2350.4	2349.0	2350.4
25°	2609.4	2608.7	2627.3	2600.1	2511.7	2401.1	2309.0	2258.4	2247.6	2256.2	2270.5
27.5°	2689.3	2697.2	2706.5	2607.3	2433.2	2266.2	2172.7	2137.8	2148.5	2169.2	2182.7
30°	2791.4	2812.8	2792.8	2589.4	2320.4	2112.1	2022.9	2012.9	2042.1	2071.4	2085.7
32.5°	2890.5	2924.1	2875.6	2543.1	2174.9	1948.7	1879.5	1876.6	1912.3	1940.8	1960.8
35°	2970.5	3036.8	2937.6	2451.0	2006.5	1798.1	1747.5	1728.2	1741.0	1774.6	1797.4
37.5°	3074.6	3185.2	2980.5	2310.4	1823.8	1674.0	1614.7	1570.5	1559.1	1572.6	1584.1
40°	3265.2	3411.4	3000.4	2114.2	1645.4	1549.8	1489.9	1424.9	1380.0	1347.2	1347.9
42.5°	3576.3	3706.1	2987.6	1875.9	1480.6	1428.5	1360.7	1285.8	1213.0	1138.8	1133.1
45°	4081.4	4144.2	2949.1	1623.3	1335.7	1301.5	1238.0	1163.1	1066.0	981.8	974.0
47.5°	4889.9	4750.7	2889.1	1402.8	1208.0	1193.8	1135.2	1048.9	946.2	878.4	872.7
50°	5992.3	5626.3	2859.9	1227.3	1095.3	1099.6	1051.8	960.4	863.4	813.4	807.7
52.5°	7310.9	6645.9	2916.2	1091.7	1004.7	1019.6	984.0	898.3	817.0	777.8	772.0
55°	8678.8	7701.9	2976.9	993.2	919.0	948.3	936.2	865.5	792.0	755.6	750.6
57.5°	9849.7	8490.4	2855.6	913.3	842.7	888.4	899.1	844.8	779.2	746.4	740.7
60°	10586.8	8807.9	2537.3	838.4	782.0	840.5	877.7	839.1	784.2	781.3	777.0
62.5°	10936.4	8780.1	2060.0	779.2	744.2	819.9	893.4	871.2	841.3	867.0	869.1
65°	10779.4	8360.5	1534.1	739.9	717.1	827.7	940.4	931.9	857.7	883.4	886.9
67.5°	9746.2	7359.4	1136.0	705.7	687.1	849.8	1026.1	951.9	825.6	844.1	832.7
70°	7877.5	5834.6	876.2	667.2	656.5	847.0	1064.6	939.7	790.6	794.9	764.2
72.5°	5432.2	3978.7	712.8	631.5	612.2	772.0	1037.5	909.8	761.3	728.5	687.9
75°	2954.1	2135.6	605.8	594.4	534.4	677.9	987.5	888.4	734.9	691.4	668.6
77.5°	1162.4	886.2	525.9	543.7	467.4	598.7	931.9	847.7	698.6	641.5	630.1
80°	474.5	452.4	436.0	470.2	401.7	523.7	864.8	799.9	655.0	595.1	572.3
82.5°	269.0	281.1	338.9	371.0	326.1	482.4	832.7	761.3	602.9	533.0	505.9
85°	137.7	164.8	236.2	266.2	239.7	410.3	767.1	666.4	483.8	408.1	410.3
87.5°	66.4	92.0	149.1	167.0	155.6	296.8	573.0	483.1	376.7	298.3	289.0
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)