

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: P522746

Luminaire Tested: **GALN-SA4C-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20460 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

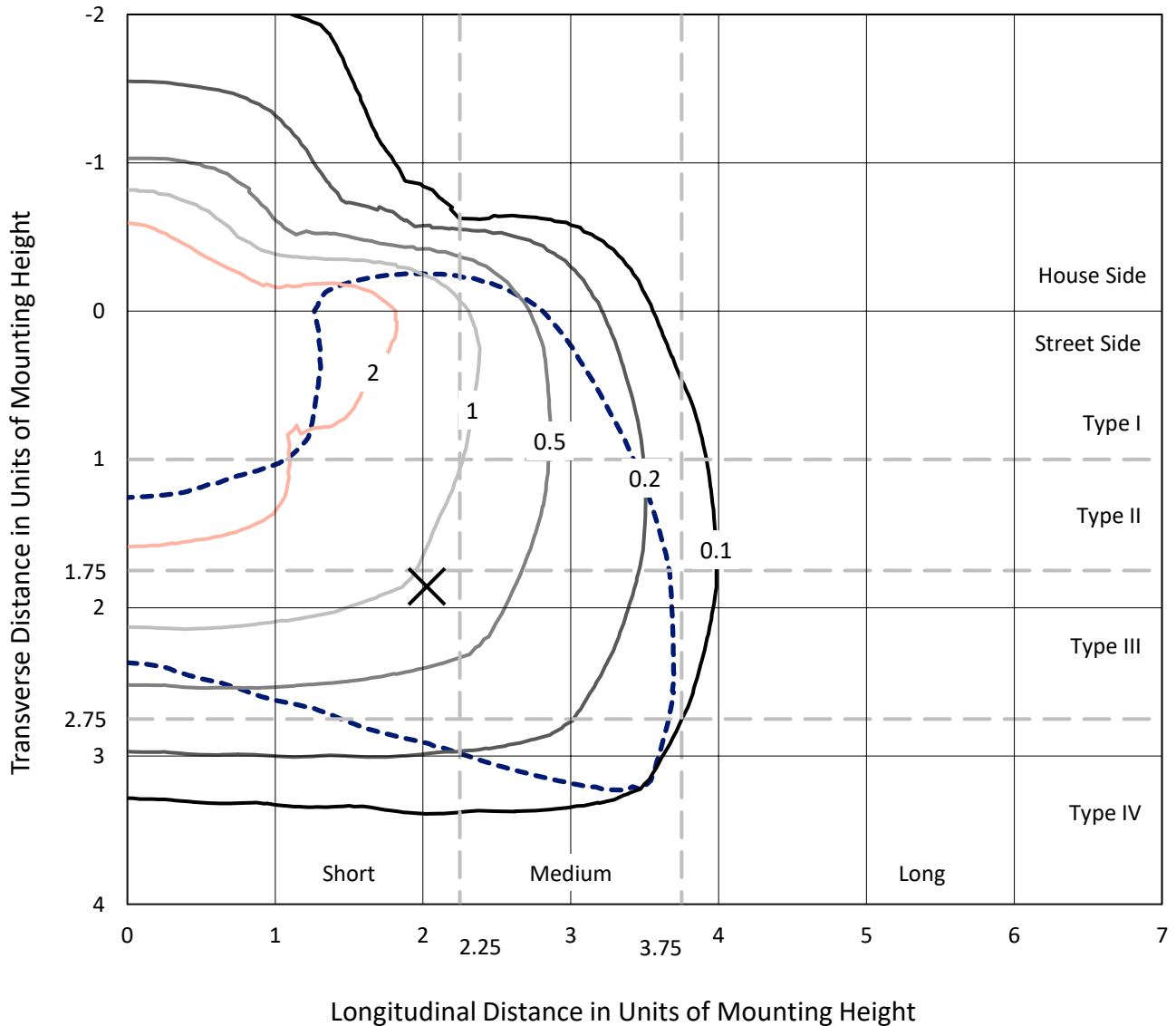
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

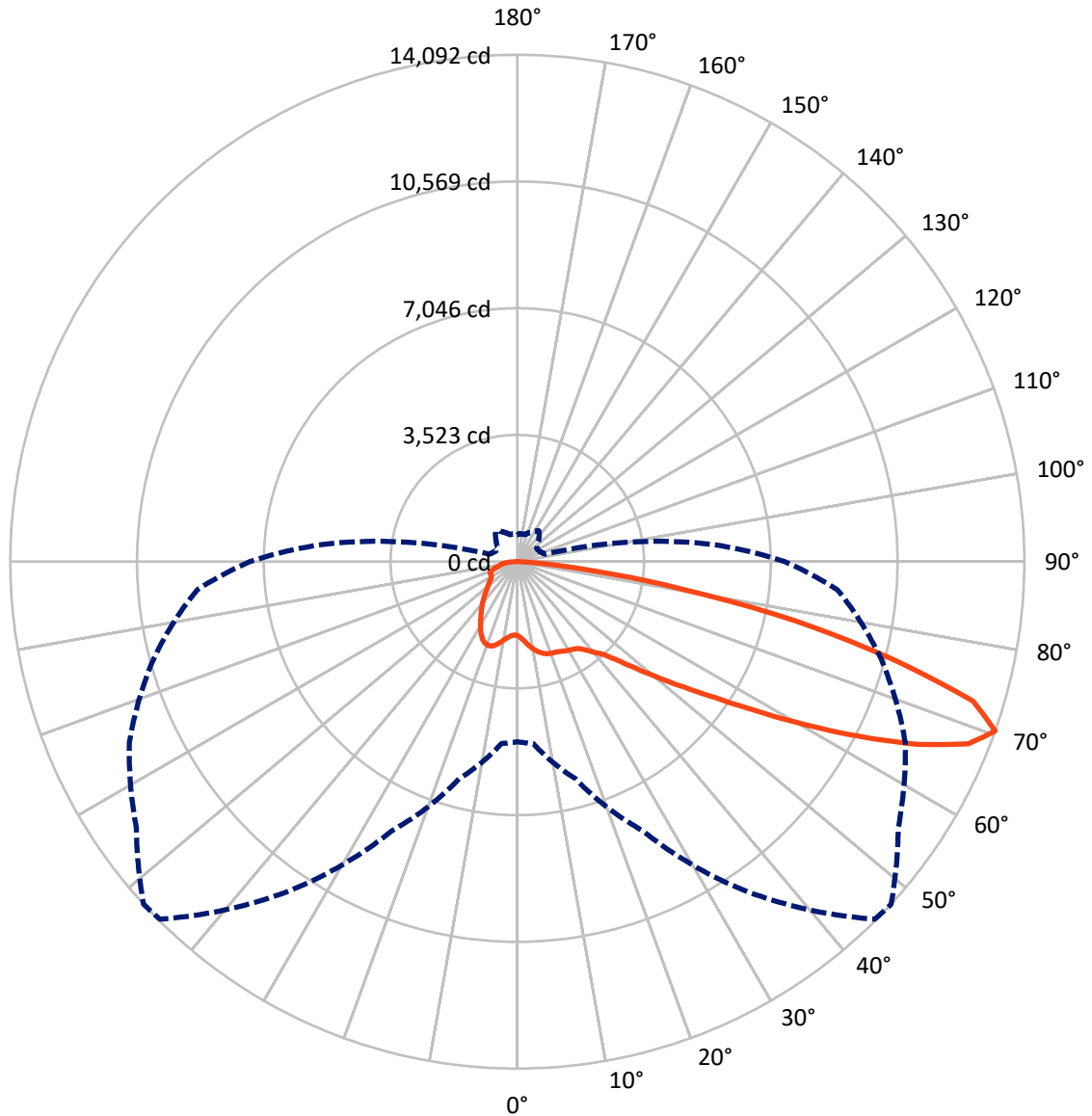
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4632.5	0.0	4632.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15827.5	0.0	15827.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	20460.0	0.0	20460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	1.0
10°-20°	707.8	3.5
20°-30°	1177.0	5.8
30°-40°	1668.3	8.2
40°-50°	2462.7	12.0
50°-60°	4265.6	20.8
60°-70°	6025.3	29.4
70°-80°	3463.7	16.9
80°-90°	477.9	2.3
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°	20460.0	100.0
0°-180°	20460.0	100.0

Coefficient of Utilization



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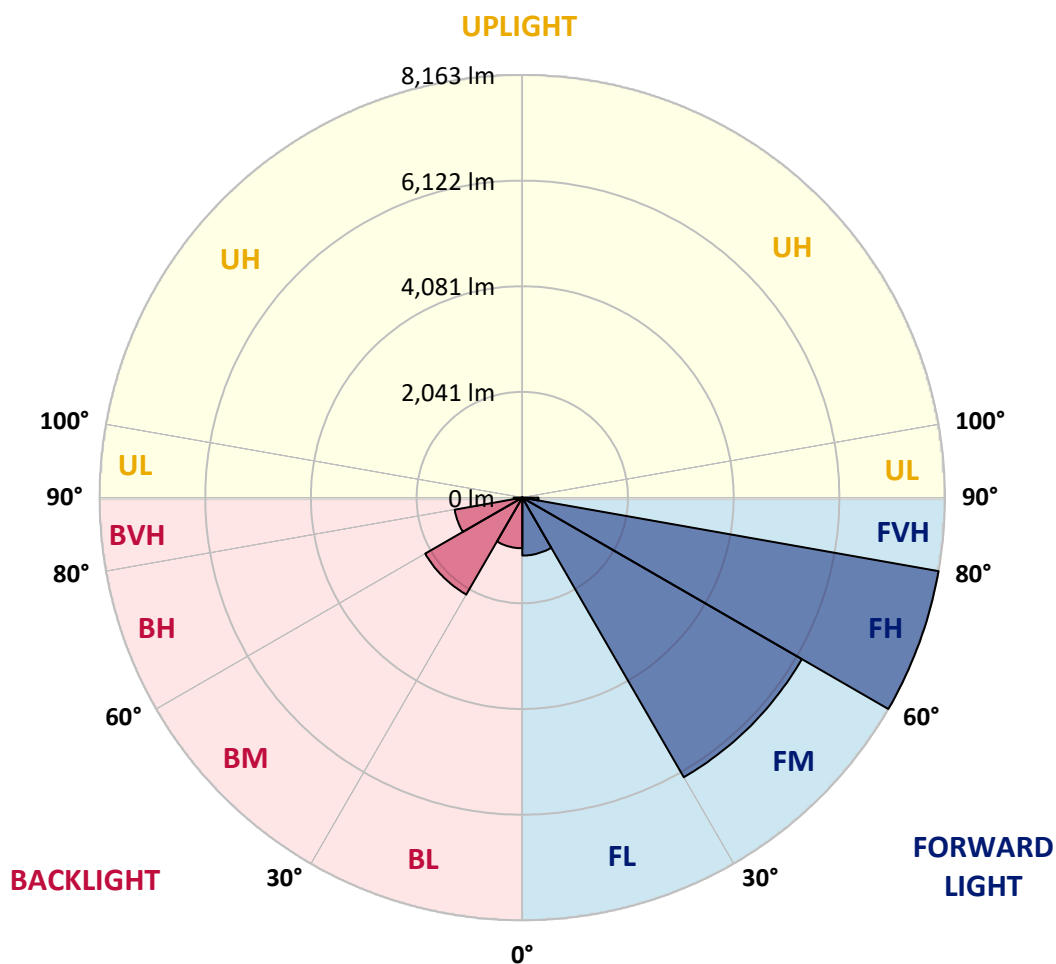
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1118.8	5.5			
FM	(30°-60°)	6233.8	30.5			
FH	(60°-80°)	8162.7	39.9			G4/12000
FVH	(80°-90°)	312.2	1.5			G3/500
BL	(0°-30°)	977.7	4.8	B2/1000		
BM	(30°-60°)	2162.9	10.6	B2/2500		
BH	(60°-80°)	1326.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	165.7	0.8			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°	47.5°	55°	65°	75°	85°
0°	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9
2.5°	2186.4	2178.8	2177.7	2161.2	2152.5	2136.1	2129.5	2114.2	2095.5	2076.9	2059.4
5°	2358.3	2358.3	2350.6	2327.7	2291.5	2254.3	2237.9	2208.3	2155.8	2113.1	2076.9
7.5°	2534.6	2536.8	2521.4	2487.5	2436.0	2375.8	2360.5	2316.7	2242.3	2179.8	2126.2
10°	2686.8	2686.8	2666.0	2620.0	2555.4	2489.7	2474.4	2425.1	2341.9	2264.1	2194.1
12.5°	2802.8	2802.8	2775.4	2715.2	2645.2	2586.0	2568.5	2521.4	2443.7	2357.2	2268.5
15°	2878.4	2872.9	2842.2	2774.3	2706.5	2655.0	2643.0	2603.6	2532.4	2444.8	2345.2
17.5°	2881.6	2879.5	2849.9	2793.0	2733.8	2698.8	2691.1	2664.9	2609.0	2525.8	2420.7
20°	2818.1	2822.5	2802.8	2762.3	2733.8	2718.5	2715.2	2706.5	2667.1	2589.3	2484.2
22.5°	2750.3	2757.9	2739.3	2717.4	2715.2	2730.6	2732.7	2734.9	2709.8	2634.2	2537.9
25°	2733.8	2739.3	2720.7	2701.0	2713.0	2753.5	2762.3	2771.1	2751.4	2687.9	2601.4
27.5°	2817.0	2812.7	2776.5	2733.8	2741.5	2796.2	2808.3	2818.1	2808.3	2753.5	2680.2
30°	3052.4	3038.2	2965.9	2841.1	2801.7	2840.0	2852.1	2879.5	2879.5	2838.9	2765.6
32.5°	3446.6	3419.2	3286.7	3041.5	2904.6	2881.6	2893.7	2938.6	2961.6	2929.8	2849.9
35°	3925.0	3896.6	3707.2	3377.6	3093.0	2964.9	2961.6	3011.9	3073.2	3002.1	2898.1
37.5°	4405.7	4376.1	4148.4	3778.3	3367.8	3140.0	3120.3	3137.8	3164.1	3033.8	2964.9
40°	4886.3	4851.3	4652.0	4226.1	3703.9	3372.1	3320.7	3241.8	3230.9	3137.8	3094.0
42.5°	5362.6	5330.8	5230.1	4728.7	4106.8	3598.8	3519.9	3384.2	3425.8	3369.9	3331.6
45°	5843.2	5845.4	5738.1	5292.5	4592.9	4017.0	3910.8	3698.4	3796.9	3776.1	3798.0
47.5°	6269.1	6263.6	6225.3	5839.9	5196.2	4555.7	4418.8	4172.5	4341.1	4417.7	4585.2
50°	6681.9	6678.6	6680.8	6460.7	5896.9	5196.2	5045.1	4786.7	5166.6	5432.6	5732.6
52.5°	7273.1	7291.7	7159.2	7101.2	6748.7	5952.7	5786.3	5519.1	6142.1	6561.4	7147.2
55°	7866.5	7851.2	7747.2	7807.4	7639.9	6848.3	6674.2	6461.8	7228.2	7686.9	8567.2
57.5°	8215.8	8221.2	8327.4	8621.9	8740.2	7965.0	7807.4	7643.1	8449.0	8774.1	9830.7
60°	8530.0	8555.2	8860.6	9416.8	9737.6	9336.9	9196.7	9036.9	9569.0	9698.2	10927.7
62.5°	8628.5	8706.2	9239.4	10071.5	10709.8	10885.0	10710.9	10358.4	10635.4	10585.0	11671.1
65°	8136.9	8243.1	9198.9	10316.8	11578.0	12354.3	12243.7	11589.0	11544.1	11240.8	11792.6
67.5°	6842.8	6949.0	8176.3	9802.2	11937.1	13626.5	13515.9	12486.8	12095.9	11302.1	10873.0
70°	5006.7	5073.5	6247.2	8253.0	11215.6	14053.5	14091.8	12924.7	11898.8	10469.0	8927.4
72.5°	2884.9	3032.7	3855.0	5806.0	9162.8	12974.0	13240.0	12013.8	10652.9	8733.6	6241.7
75°	1240.5	1243.7	1782.4	3202.4	6205.6	10428.4	10685.7	9958.8	8365.7	6039.2	3332.7
77.5°	590.1	601.1	783.9	1429.9	3415.9	7205.2	7899.3	7035.5	5350.5	2901.4	1259.1
80°	383.2	390.9	479.5	709.5	1675.1	4177.9	4661.9	4058.6	2360.5	1036.8	543.0
82.5°	232.1	234.3	320.8	433.6	921.9	1891.9	2230.2	1761.6	1007.3	620.8	319.7
85°	141.2	142.3	194.9	268.2	559.5	653.6	671.1	665.7	591.2	406.2	170.8
87.5°	67.9	70.1	100.7	127.0	220.1	202.5	191.6	222.3	279.2	219.0	73.4
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°	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9
2.5°	2051.7	2048.5	2040.8	2037.5	2035.3	2036.4	2035.3	2035.3	2036.4	2036.4	2036.4
5°	2061.6	2056.1	2044.1	2044.1	2050.7	2066.0	2080.2	2091.2	2103.2	2102.1	2102.1
7.5°	2104.3	2094.4	2080.2	2084.6	2101.0	2125.1	2150.3	2174.4	2198.5	2200.6	2199.6
10°	2166.7	2156.9	2141.5	2147.0	2173.3	2209.4	2241.2	2276.2	2302.5	2310.1	2307.9
12.5°	2237.9	2218.2	2205.0	2220.4	2262.0	2310.1	2340.8	2367.1	2385.7	2396.6	2392.2
15°	2310.1	2291.5	2276.2	2307.9	2358.3	2403.2	2418.5	2422.9	2426.2	2437.1	2434.9
17.5°	2380.2	2355.0	2349.5	2391.2	2439.3	2459.0	2450.3	2431.7	2417.4	2426.2	2425.1
20°	2442.6	2422.9	2420.7	2462.3	2480.9	2462.3	2425.1	2392.2	2367.1	2369.3	2368.2
22.5°	2501.7	2486.4	2488.6	2506.1	2476.5	2413.0	2351.7	2306.8	2279.5	2285.0	2288.2
25°	2567.4	2552.1	2557.6	2529.1	2431.7	2321.1	2232.4	2194.1	2183.1	2194.1	2201.7
27.5°	2652.8	2643.0	2639.7	2530.2	2351.7	2185.3	2084.6	2070.4	2080.2	2104.3	2116.3
30°	2744.8	2744.8	2727.3	2511.6	2242.3	2022.2	1934.6	1936.8	1970.7	2004.7	2016.7
32.5°	2833.5	2852.1	2797.3	2461.2	2101.0	1863.4	1796.6	1798.8	1828.4	1870.0	1881.0
35°	2906.8	2960.5	2857.6	2369.3	1934.6	1729.9	1679.5	1649.9	1651.0	1682.8	1691.5
37.5°	3007.6	3107.2	2892.6	2232.4	1757.2	1616.0	1559.1	1507.6	1473.7	1460.5	1460.5
40°	3182.7	3329.4	2901.4	2029.9	1589.7	1507.6	1426.6	1365.3	1299.6	1240.5	1229.5
42.5°	3479.4	3664.5	2883.8	1796.6	1438.6	1388.3	1309.4	1233.9	1143.0	1059.8	1053.2
45°	4005.0	4100.2	2836.8	1554.7	1304.0	1273.3	1196.7	1114.6	1018.2	943.8	938.3
47.5°	4846.9	4712.2	2774.3	1340.1	1181.3	1172.6	1113.5	1018.2	921.9	870.4	864.9
50°	6076.4	5675.7	2765.6	1184.6	1082.8	1087.2	1039.0	951.4	867.1	824.4	817.9
52.5°	7556.7	6839.5	2823.6	1075.1	996.3	1012.7	988.6	907.6	833.2	797.1	790.5
55°	8993.1	7886.2	2858.7	989.7	915.3	946.0	949.2	881.4	813.5	777.3	773.0
57.5°	10159.1	8674.5	2703.2	912.0	845.2	892.3	916.4	866.0	803.6	776.2	771.9
60°	10970.4	9046.7	2260.9	843.0	793.8	849.6	904.3	867.1	827.7	831.0	833.2
62.5°	11228.8	8881.4	1695.9	791.6	758.7	835.4	924.1	912.0	871.5	896.7	901.1
65°	10800.7	8198.2	1229.5	751.1	728.1	845.2	983.2	944.9	856.2	874.8	874.8
67.5°	9367.5	7062.9	956.9	713.8	693.0	863.8	1042.3	941.6	820.0	841.9	822.2
70°	7430.7	5463.3	797.1	672.2	655.8	836.5	1047.8	907.6	777.3	781.7	744.5
72.5°	4931.2	3592.2	685.4	632.8	598.9	752.2	1002.9	863.8	735.7	710.6	673.3
75°	2416.3	1791.2	597.8	583.6	524.4	654.7	941.6	822.2	690.9	651.4	630.6
77.5°	936.1	762.0	510.2	521.1	456.6	577.0	860.6	763.1	631.7	578.1	561.7
80°	454.4	432.5	418.2	434.7	375.5	491.6	786.1	711.7	577.0	517.9	493.8
82.5°	282.5	267.1	320.8	338.3	289.0	448.9	745.6	667.9	508.0	429.2	409.5
85°	143.4	153.3	214.6	231.0	206.9	356.9	614.2	501.4	366.8	304.4	306.6
87.5°	54.7	73.4	112.8	121.5	110.6	188.3	338.3	292.3	235.4	159.8	147.8
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)