

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: P522773

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

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522773
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-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: 20963 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

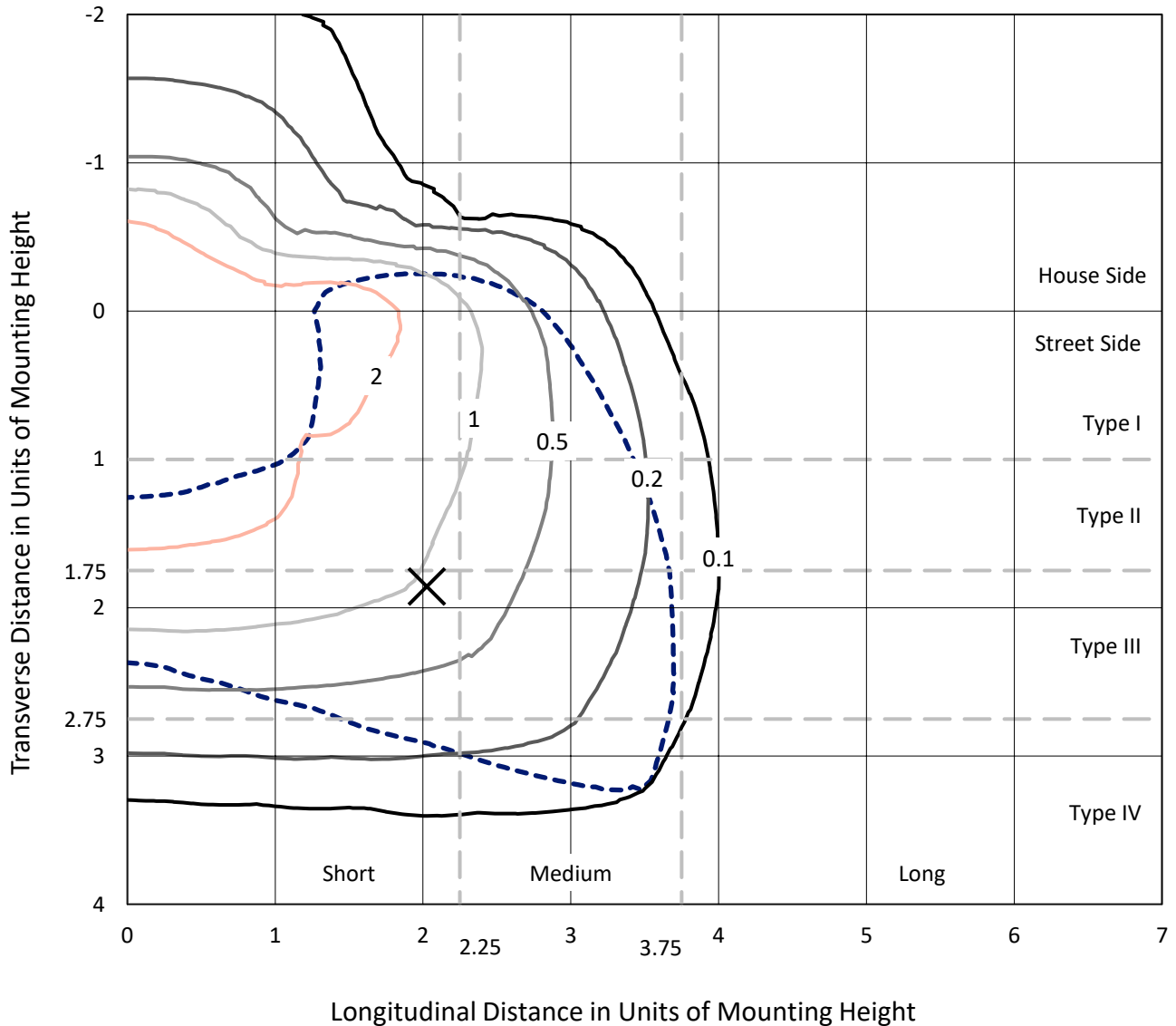
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

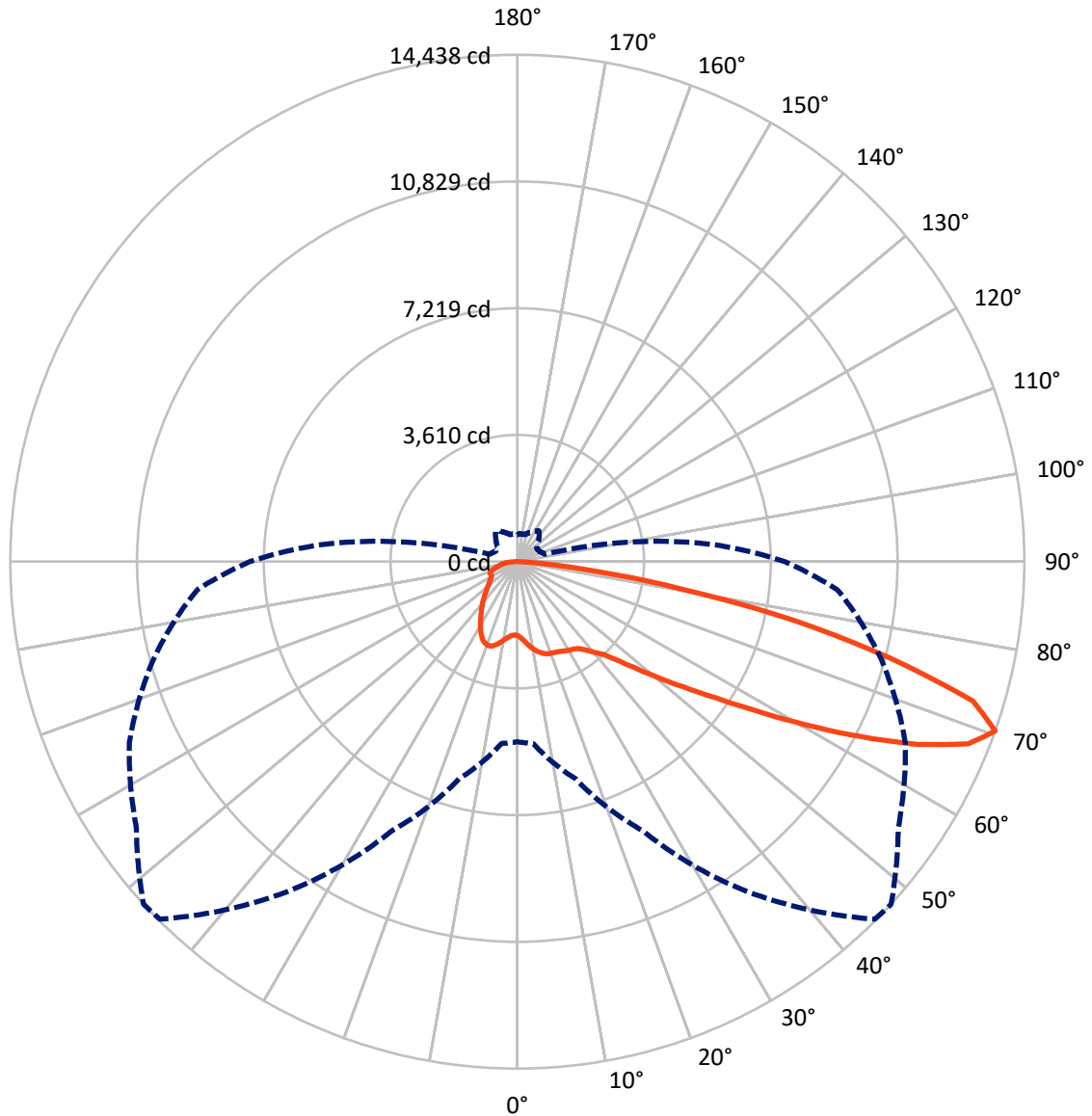
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	4746.4	0.0	4746.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16216.6	0.0	16216.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	20963.0	0.0	20963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.9	1.0
10°-20°	725.2	3.5
20°-30°	1206.0	5.8
30°-40°	1709.3	8.2
40°-50°	2523.3	12.0
50°-60°	4370.5	20.8
60°-70°	6173.4	29.4
70°-80°	3548.8	16.9
80°-90°	489.6	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°	20963.0	100.0
0°-180°	20963.0	100.0

Coefficient of Utilization



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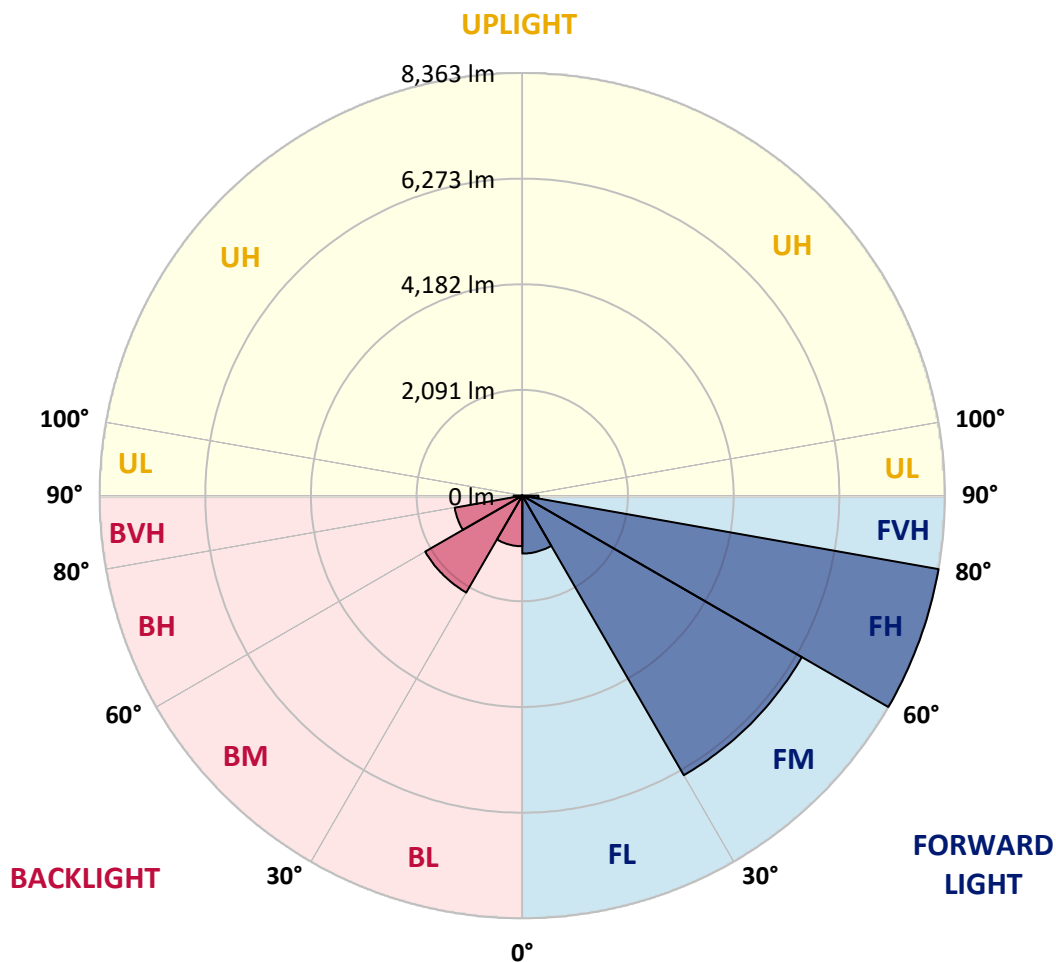
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1146.3	5.5			
FM	(30°-60°)	6387.0	30.5			
FH	(60°-80°)	8363.4	39.9			G4/12000
FVH	(80°-90°)	319.9	1.5			G3/500
BL	(0°-30°)	1001.8	4.8	B3/2500		
BM	(30°-60°)	2216.0	10.6	B2/2500		
BH	(60°-80°)	1358.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	169.8	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°	2104.4	2104.4	2104.4	2104.4	2104.4	2104.4	2104.4	2104.4	2104.4	2104.4	2104.4
2.5°	2240.2	2232.3	2231.2	2214.4	2205.4	2188.6	2181.8	2166.1	2147.1	2128.0	2110.0
5°	2416.3	2416.3	2408.4	2384.9	2347.9	2309.7	2292.9	2262.6	2208.8	2165.0	2128.0
7.5°	2596.9	2599.1	2583.4	2548.7	2495.9	2434.2	2418.5	2373.7	2297.4	2233.4	2178.5
10°	2752.8	2752.8	2731.5	2684.4	2618.2	2550.9	2535.2	2484.7	2399.5	2319.8	2248.0
12.5°	2871.7	2871.7	2843.7	2782.0	2710.2	2649.6	2631.7	2583.4	2503.8	2415.2	2324.3
15°	2949.1	2943.5	2912.1	2842.6	2773.0	2720.3	2707.9	2667.6	2594.6	2504.9	2402.8
17.5°	2952.5	2950.2	2920.0	2861.6	2801.0	2765.2	2757.3	2730.4	2673.2	2587.9	2480.2
20°	2887.4	2891.9	2871.7	2830.2	2801.0	2785.3	2782.0	2773.0	2732.6	2653.0	2545.3
22.5°	2817.9	2825.7	2806.7	2784.2	2782.0	2797.7	2799.9	2802.2	2776.4	2699.0	2600.3
25°	2801.0	2806.7	2787.6	2767.4	2779.7	2821.2	2830.2	2839.2	2819.0	2753.9	2665.3
27.5°	2886.3	2881.8	2844.8	2801.0	2808.9	2865.0	2877.3	2887.4	2877.3	2821.2	2746.1
30°	3127.5	3112.9	3038.9	2911.0	2870.6	2909.9	2922.2	2950.2	2950.2	2908.7	2833.6
32.5°	3531.3	3503.3	3367.5	3116.3	2976.0	2952.5	2964.8	3010.8	3034.4	3001.8	2920.0
35°	4021.5	3992.4	3798.3	3460.6	3169.0	3037.7	3034.4	3086.0	3148.8	3075.9	2969.3
37.5°	4514.0	4483.7	4250.4	3871.2	3450.6	3217.2	3197.0	3215.0	3241.9	3108.4	3037.7
40°	5006.4	4970.5	4766.4	4330.0	3794.9	3455.0	3402.3	3321.5	3310.3	3215.0	3170.1
42.5°	5494.4	5461.9	5358.7	4844.9	4207.7	3687.2	3606.5	3467.4	3510.0	3452.8	3413.5
45°	5986.9	5989.1	5879.2	5422.6	4705.8	4115.8	4006.9	3789.3	3890.3	3869.0	3891.4
47.5°	6423.2	6417.6	6378.4	5983.5	5323.9	4667.7	4527.4	4275.1	4447.8	4526.3	4698.0
50°	6846.1	6842.8	6845.0	6619.5	6041.8	5323.9	5169.1	4904.4	5293.6	5566.2	5873.6
52.5°	7451.9	7471.0	7335.2	7275.8	6914.6	6099.0	5928.5	5654.8	6293.1	6722.7	7322.9
55°	8059.9	8044.2	7937.6	7999.3	7827.7	7016.6	6838.3	6620.7	7405.9	7875.9	8777.8
57.5°	8417.7	8423.3	8532.2	8833.9	8955.1	8160.8	7999.3	7831.0	8656.7	8989.8	10072.3
60°	8739.7	8765.5	9078.5	9648.3	9977.0	9566.4	9422.8	9259.1	9804.2	9936.6	11196.3
62.5°	8840.6	8920.3	9466.6	10319.1	10973.1	11152.6	10974.2	10613.0	10896.8	10845.2	11958.0
65°	8337.0	8445.8	9425.1	10570.4	11862.7	12658.0	12544.7	11873.9	11827.9	11517.2	12082.5
67.5°	7011.0	7119.8	8377.3	10043.2	12230.6	13961.5	13848.2	12793.7	12393.3	11580.0	11140.3
70°	5129.8	5198.3	6400.8	8455.9	11491.4	14399.0	14438.2	13242.4	12191.4	10726.3	9146.9
72.5°	2955.9	3107.3	3949.7	5948.7	9388.1	13292.9	13565.5	12309.1	10914.8	8948.3	6395.2
75°	1271.0	1274.3	1826.2	3281.2	6358.2	10684.8	10948.4	10203.6	8571.4	6187.7	3414.7
77.5°	604.6	615.8	803.2	1465.0	3499.9	7382.3	8093.5	7208.5	5482.1	2972.7	1290.0
80°	392.6	400.5	491.3	726.9	1716.3	4280.7	4776.5	4158.4	2418.5	1062.3	556.4
82.5°	237.8	240.1	328.7	444.2	944.5	1938.4	2285.0	1804.9	1032.0	636.0	327.6
85°	144.7	145.8	199.7	274.8	573.2	669.7	687.6	682.0	605.8	416.2	175.0
87.5°	69.5	71.8	103.2	130.1	225.5	207.5	196.3	227.7	286.1	224.4	75.2
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°	2104.4	2104.4	2104.4	2104.4	2104.4	2104.4	2104.4	2104.4	2104.4	2104.4	2104.4
2.5°	2102.2	2098.8	2091.0	2087.6	2085.4	2086.5	2085.4	2085.4	2086.5	2086.5	2086.5
5°	2112.3	2106.7	2094.3	2094.3	2101.1	2116.8	2131.4	2142.6	2154.9	2153.8	2153.8
7.5°	2156.0	2145.9	2131.4	2135.8	2152.7	2177.3	2203.1	2227.8	2252.5	2254.7	2253.6
10°	2220.0	2209.9	2194.2	2199.8	2226.7	2263.7	2296.3	2332.2	2359.1	2366.9	2364.7
12.5°	2292.9	2272.7	2259.2	2274.9	2317.6	2366.9	2398.3	2425.3	2444.3	2455.5	2451.1
15°	2366.9	2347.9	2332.2	2364.7	2416.3	2462.3	2478.0	2482.5	2485.8	2497.1	2494.8
17.5°	2438.7	2412.9	2407.3	2449.9	2499.3	2519.5	2510.5	2491.4	2476.9	2485.8	2484.7
20°	2502.7	2482.5	2480.2	2522.9	2541.9	2522.9	2484.7	2451.1	2425.3	2427.5	2426.4
22.5°	2563.2	2547.5	2549.8	2567.7	2537.4	2472.4	2409.6	2363.6	2335.5	2341.1	2344.5
25°	2630.5	2614.8	2620.4	2591.3	2491.4	2378.1	2287.3	2248.0	2236.8	2248.0	2255.9
27.5°	2718.0	2707.9	2704.6	2592.4	2409.6	2239.0	2135.8	2121.3	2131.4	2156.0	2168.4
30°	2812.3	2812.3	2794.3	2573.3	2297.4	2071.9	1982.2	1984.4	2019.2	2054.0	2066.3
32.5°	2903.1	2922.2	2866.1	2521.7	2152.7	1909.2	1840.8	1843.1	1873.3	1916.0	1927.2
35°	2978.3	3033.3	2927.8	2427.5	1982.2	1772.4	1720.8	1690.5	1691.6	1724.2	1733.1
37.5°	3081.5	3183.6	2963.7	2287.3	1800.4	1655.7	1597.4	1544.7	1509.9	1496.4	1496.4
40°	3261.0	3411.3	2972.7	2079.8	1628.8	1544.7	1461.7	1398.8	1331.5	1271.0	1259.7
42.5°	3565.0	3754.6	2954.7	1840.8	1474.0	1422.4	1341.6	1264.2	1171.1	1085.9	1079.1
45°	4103.4	4201.0	2906.5	1592.9	1336.0	1304.6	1226.1	1142.0	1043.2	967.0	961.4
47.5°	4966.1	4828.1	2842.6	1373.0	1210.4	1201.4	1140.8	1043.2	944.5	891.8	886.2
50°	6225.8	5815.2	2833.6	1213.8	1109.4	1113.9	1064.6	974.8	888.4	844.7	838.0
52.5°	7742.4	7007.7	2893.0	1101.6	1020.8	1037.6	1013.0	929.9	853.7	816.6	809.9
55°	9214.2	8080.1	2928.9	1014.1	937.8	969.2	972.6	903.0	833.5	796.5	792.0
57.5°	10408.9	8887.8	2769.6	934.4	866.0	914.2	938.9	887.3	823.4	795.3	790.8
60°	11240.1	9269.2	2316.4	863.8	813.3	870.5	926.6	888.4	848.1	851.4	853.7
62.5°	11504.8	9099.8	1737.6	811.0	777.4	855.9	946.8	934.4	892.9	918.7	923.2
65°	11066.2	8399.8	1259.7	769.5	746.0	866.0	1007.3	968.1	877.2	896.3	896.3
67.5°	9597.8	7236.5	980.4	731.4	710.1	885.1	1067.9	964.7	840.2	862.6	842.4
70°	7613.4	5597.6	816.6	688.8	671.9	857.0	1073.5	929.9	796.5	800.9	762.8
72.5°	5052.4	3680.5	702.2	648.4	613.6	770.7	1027.5	885.1	753.8	728.0	689.9
75°	2475.7	1835.2	612.5	597.9	537.3	670.8	964.7	842.4	707.8	667.5	646.1
77.5°	959.1	780.7	522.7	534.0	467.8	591.2	881.7	781.9	647.3	592.3	575.5
80°	465.5	443.1	428.5	445.3	384.8	503.7	805.4	729.1	591.2	530.6	505.9
82.5°	289.4	273.7	328.7	346.6	296.1	459.9	763.9	684.3	520.5	439.7	419.5
85°	147.0	157.0	219.9	236.7	212.0	365.7	629.3	513.8	375.8	311.9	314.1
87.5°	56.1	75.2	115.5	124.5	113.3	192.9	346.6	299.5	241.2	163.8	151.4
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)