

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: P522706

Luminaire Tested: **GALN-SA3C-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522706
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-SA3C-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 19565 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

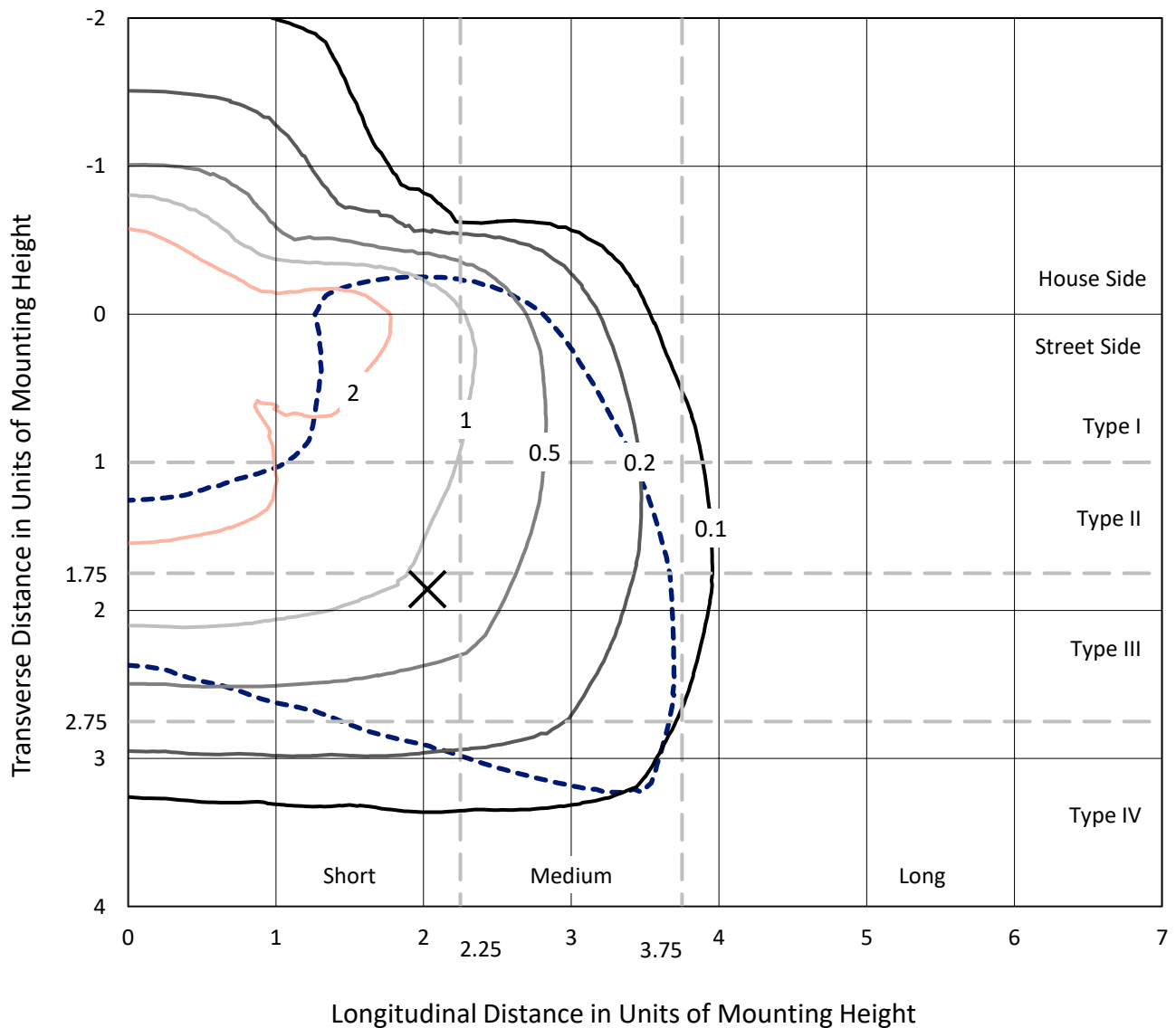
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

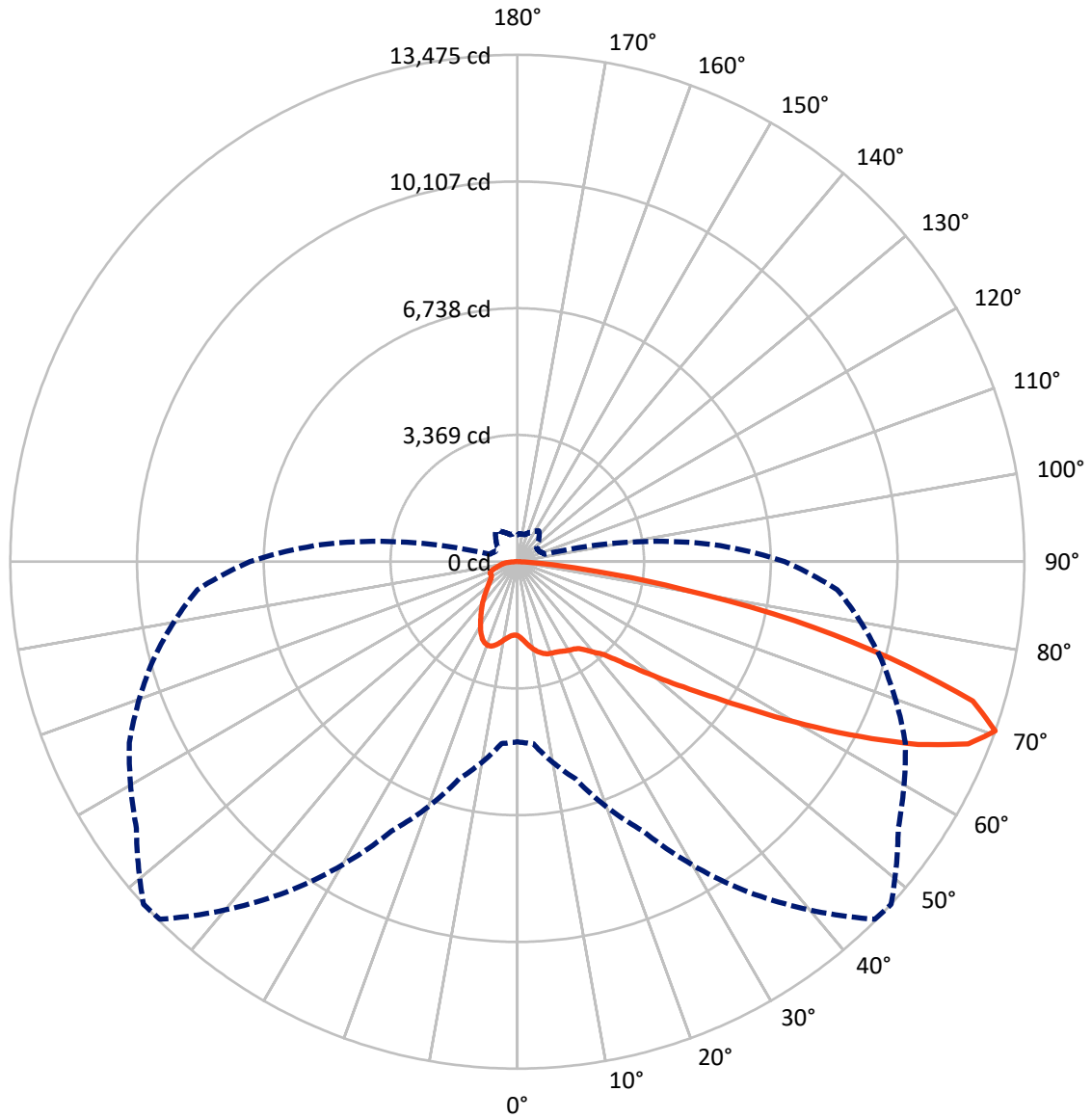
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	4429.9	0.0	4429.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15135.1	0.0	15135.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	19565.0	0.0	19565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	1.0
10°-20°	676.8	3.5
20°-30°	1125.6	5.8
30°-40°	1595.3	8.2
40°-50°	2355.0	12.0
50°-60°	4079.0	20.8
60°-70°	5761.7	29.4
70°-80°	3312.1	16.9
80°-90°	457.0	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°	19565.0	100.0
0°-180°	19565.0	100.0

Coefficient of Utilization



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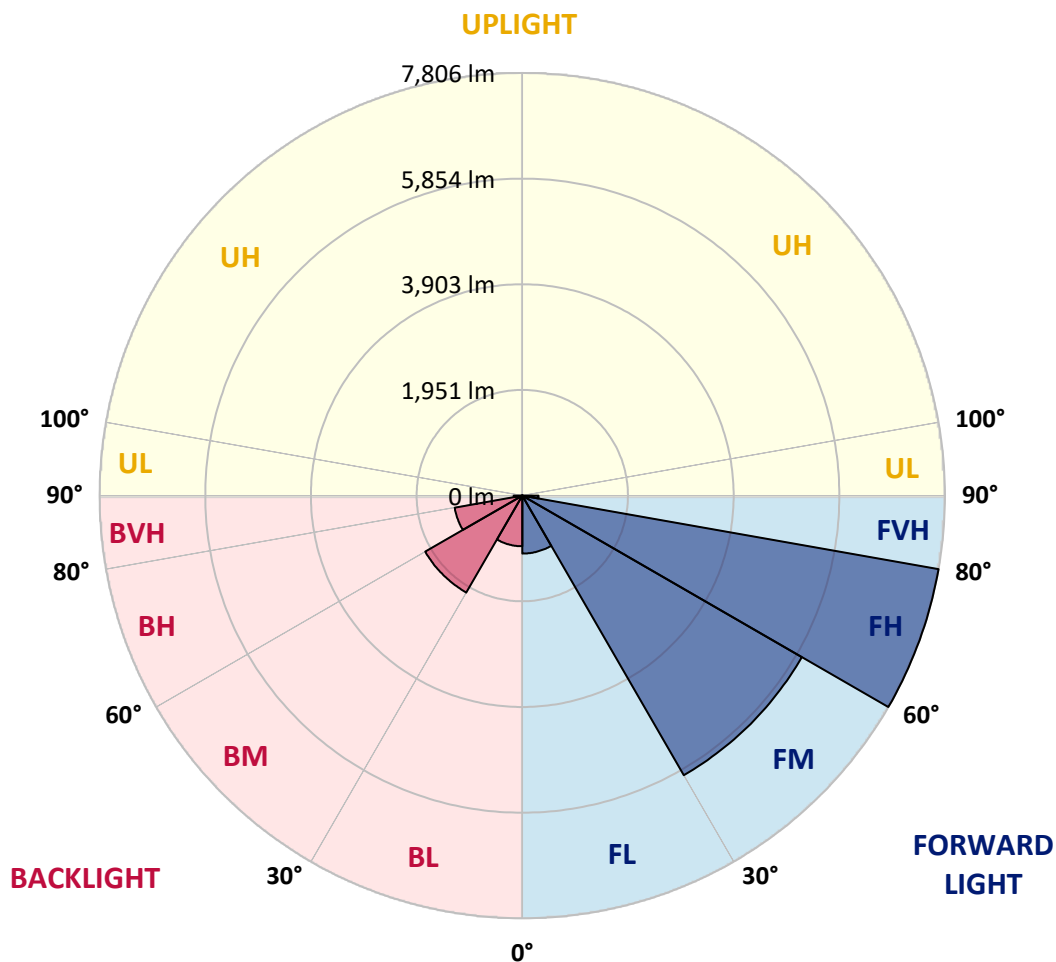
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1069.9	5.5			
FM	(30°-60°)	5961.1	30.5			
FH	(60°-80°)	7805.6	39.9			G4/12000
FVH	(80°-90°)	298.5	1.5			G3/500
BL	(0°-30°)	935.0	4.8	B2/1000		
BM	(30°-60°)	2068.2	10.6	B2/2500		
BH	(60°-80°)	1268.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	158.5	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°	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1
2.5°	2090.8	2083.4	2082.4	2066.7	2058.3	2042.6	2036.3	2021.7	2003.9	1986.1	1969.3
5°	2255.1	2255.1	2247.8	2225.8	2191.3	2155.7	2140.0	2111.7	2061.5	2020.6	1986.1
7.5°	2423.7	2425.8	2411.1	2378.7	2329.5	2271.9	2257.2	2215.4	2144.2	2084.5	2033.2
10°	2569.2	2569.2	2549.3	2505.4	2443.6	2380.8	2366.1	2319.0	2239.4	2165.1	2098.1
12.5°	2680.2	2680.2	2654.0	2596.5	2529.4	2472.9	2456.2	2411.1	2336.8	2254.1	2169.3
15°	2752.4	2747.2	2717.9	2653.0	2588.1	2538.9	2527.4	2489.7	2421.6	2337.9	2242.6
17.5°	2755.6	2753.5	2725.2	2670.8	2614.3	2580.7	2573.4	2548.3	2494.9	2415.3	2314.8
20°	2694.9	2699.1	2680.2	2641.5	2614.3	2599.6	2596.5	2588.1	2550.4	2476.1	2375.5
22.5°	2630.0	2637.3	2619.5	2598.5	2596.5	2611.1	2613.2	2615.3	2591.2	2519.0	2426.8
25°	2614.3	2619.5	2601.7	2582.8	2594.4	2633.1	2641.5	2649.8	2631.0	2570.3	2487.6
27.5°	2693.8	2689.6	2655.1	2614.3	2621.6	2673.9	2685.4	2694.9	2685.4	2633.1	2562.9
30°	2918.9	2905.3	2836.2	2716.9	2679.2	2715.8	2727.3	2753.5	2753.5	2714.8	2644.6
32.5°	3295.8	3269.6	3143.0	2908.4	2777.6	2755.6	2767.1	2810.0	2832.0	2801.7	2725.2
35°	3753.3	3726.1	3545.0	3229.9	2957.7	2835.2	2832.0	2880.2	2938.8	2870.8	2771.3
37.5°	4213.0	4184.7	3966.9	3613.0	3220.4	3002.7	2983.8	3000.6	3025.7	2901.1	2835.2
40°	4672.6	4639.1	4448.5	4041.3	3541.9	3224.6	3175.4	3100.0	3089.6	3000.6	2958.7
42.5°	5128.0	5097.6	5001.3	4521.8	3927.1	3441.3	3366.0	3236.1	3275.9	3222.5	3185.9
45°	5587.6	5589.7	5487.1	5061.0	4392.0	3841.3	3739.7	3536.6	3630.8	3611.0	3631.9
47.5°	5994.9	5989.6	5953.0	5584.5	4968.9	4356.4	4225.5	3990.0	4151.2	4224.5	4384.7
50°	6389.6	6386.4	6388.5	6178.1	5638.9	4968.9	4824.4	4577.3	4940.6	5195.0	5481.9
52.5°	6954.9	6972.7	6846.0	6790.6	6453.4	5692.3	5533.2	5277.7	5873.4	6274.4	6834.5
55°	7522.4	7507.7	7408.3	7465.8	7305.7	6548.7	6382.2	6179.1	6912.0	7350.7	8192.4
57.5°	7856.4	7861.6	7963.2	8244.8	8357.9	7616.6	7465.8	7308.8	8079.4	8390.3	9400.6
60°	8156.8	8180.9	8473.0	9004.9	9311.6	8928.4	8794.4	8641.6	9150.4	9273.9	10449.7
62.5°	8251.1	8325.4	8835.3	9631.0	10241.3	10408.8	10242.4	9905.3	10170.1	10122.0	11160.6
65°	7781.0	7882.5	8796.5	9865.5	11071.6	11813.9	11708.1	11082.0	11039.1	10749.1	11276.8
67.5°	6543.5	6645.0	7818.7	9373.4	11415.0	13030.4	12924.7	11940.5	11566.8	10807.7	10397.3
70°	4787.7	4851.6	5973.9	7892.0	10725.0	13438.7	13475.4	12359.3	11378.3	10011.0	8536.9
72.5°	2758.7	2900.1	3686.3	5552.0	8762.0	12406.4	12660.8	11488.3	10186.9	8351.6	5968.7
75°	1186.2	1189.3	1704.4	3062.3	5934.2	9972.3	10218.3	9523.1	7999.8	5775.0	3186.9
77.5°	564.3	574.8	749.6	1367.3	3266.5	6890.0	7553.8	6727.7	5116.5	2774.4	1204.0
80°	366.4	373.8	458.6	678.4	1601.8	3995.2	4457.9	3881.1	2257.2	991.5	519.3
82.5°	222.0	224.0	306.8	414.6	881.5	1809.1	2132.7	1684.6	963.2	593.6	305.7
85°	135.1	136.1	186.4	256.5	535.0	625.0	641.8	636.5	565.4	388.4	163.3
87.5°	64.9	67.0	96.3	121.4	210.4	193.7	183.2	212.5	267.0	209.4	70.1
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°	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1
2.5°	1962.0	1958.9	1951.5	1948.4	1946.3	1947.3	1946.3	1946.3	1947.3	1947.3	1947.3
5°	1971.4	1966.2	1954.7	1954.7	1960.9	1975.6	1989.2	1999.7	2011.2	2010.2	2010.2
7.5°	2012.3	2002.8	1989.2	1993.4	2009.1	2032.1	2056.2	2079.3	2102.3	2104.4	2103.3
10°	2071.9	2062.5	2047.8	2053.1	2078.2	2112.8	2143.1	2176.6	2201.7	2209.1	2207.0
12.5°	2140.0	2121.1	2108.6	2123.2	2163.0	2209.1	2238.4	2263.5	2281.3	2291.8	2287.6
15°	2209.1	2191.3	2176.6	2207.0	2255.1	2298.1	2312.7	2316.9	2320.1	2330.5	2328.4
17.5°	2276.1	2252.0	2246.8	2286.6	2332.6	2351.5	2343.1	2325.3	2311.7	2320.1	2319.0
20°	2335.8	2316.9	2314.8	2354.6	2372.4	2354.6	2319.0	2287.6	2263.5	2265.6	2264.6
22.5°	2392.3	2377.6	2379.7	2396.5	2368.2	2307.5	2248.9	2205.9	2179.8	2185.0	2188.1
25°	2455.1	2440.5	2445.7	2418.5	2325.3	2219.5	2134.7	2098.1	2087.6	2098.1	2105.4
27.5°	2536.8	2527.4	2524.2	2419.5	2248.9	2089.7	1993.4	1979.8	1989.2	2012.3	2023.8
30°	2624.7	2624.7	2608.0	2401.7	2144.2	1933.7	1850.0	1852.1	1884.5	1917.0	1928.5
32.5°	2709.5	2727.3	2675.0	2353.6	2009.1	1781.9	1718.1	1720.1	1748.4	1788.2	1798.7
35°	2779.7	2831.0	2732.6	2265.6	1850.0	1654.2	1606.0	1577.8	1578.8	1609.2	1617.5
37.5°	2876.0	2971.3	2766.1	2134.7	1680.4	1545.3	1490.9	1441.7	1409.2	1396.6	1396.6
40°	3043.5	3183.8	2774.4	1941.1	1520.2	1441.7	1364.2	1305.6	1242.7	1186.2	1175.7
42.5°	3327.2	3504.2	2757.7	1718.1	1375.7	1327.5	1252.2	1179.9	1093.0	1013.5	1007.2
45°	3829.8	3920.9	2712.7	1486.7	1246.9	1217.6	1144.3	1065.8	973.7	902.5	897.2
47.5°	4634.9	4506.1	2653.0	1281.5	1129.7	1121.3	1064.8	973.7	881.5	832.3	827.1
50°	5810.6	5427.4	2644.6	1132.8	1035.4	1039.6	993.6	909.8	829.2	788.4	782.1
52.5°	7226.1	6540.3	2700.1	1028.1	952.7	968.4	945.4	867.9	796.7	762.2	755.9
55°	8599.7	7541.2	2733.6	946.4	875.3	904.6	907.7	842.8	777.9	743.3	739.2
57.5°	9714.7	8295.0	2584.9	872.1	808.3	853.3	876.3	828.1	768.5	742.3	738.1
60°	10490.5	8651.0	2162.0	806.2	759.0	812.4	864.8	829.2	791.5	794.6	796.7
62.5°	10737.6	8492.9	1621.7	756.9	725.5	798.8	883.6	872.1	833.4	857.5	861.6
65°	10328.2	7839.6	1175.7	718.2	696.2	808.3	940.2	903.5	818.7	836.5	836.5
67.5°	8957.8	6753.9	915.0	682.6	662.7	826.0	996.7	900.4	784.2	805.1	786.3
70°	7105.7	5224.3	762.2	642.8	627.1	799.9	1001.9	867.9	743.3	747.5	711.9
72.5°	4715.5	3435.1	655.4	605.1	572.7	719.3	959.0	826.0	703.6	679.5	643.9
75°	2310.6	1712.8	571.6	558.0	501.5	626.1	900.4	786.3	660.6	622.9	603.0
77.5°	895.1	728.7	487.9	498.4	436.6	551.7	822.9	729.7	604.1	552.8	537.1
80°	434.5	413.5	399.9	415.6	359.1	470.1	751.7	680.5	551.7	495.2	472.2
82.5°	270.1	255.5	306.8	323.5	276.4	429.3	713.0	638.6	485.8	410.4	391.6
85°	137.2	146.6	205.2	220.9	197.9	341.3	587.3	479.5	350.7	291.1	293.1
87.5°	52.3	70.1	107.8	116.2	105.7	180.1	323.5	279.5	225.1	152.9	141.3
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)