

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: P522715

Luminaire Tested: **GALN-SA3D-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522715
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-SA3D-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21528 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

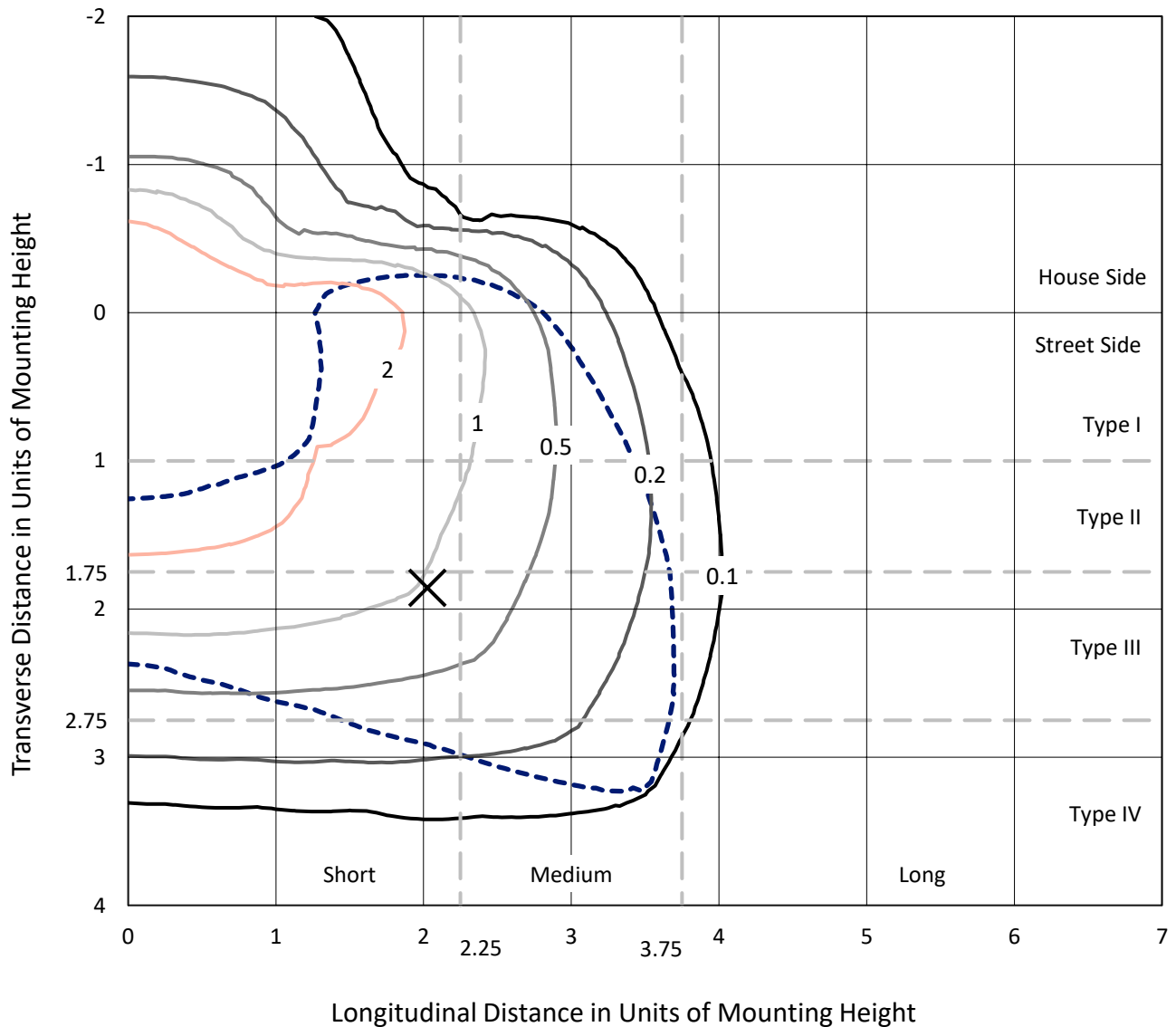
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

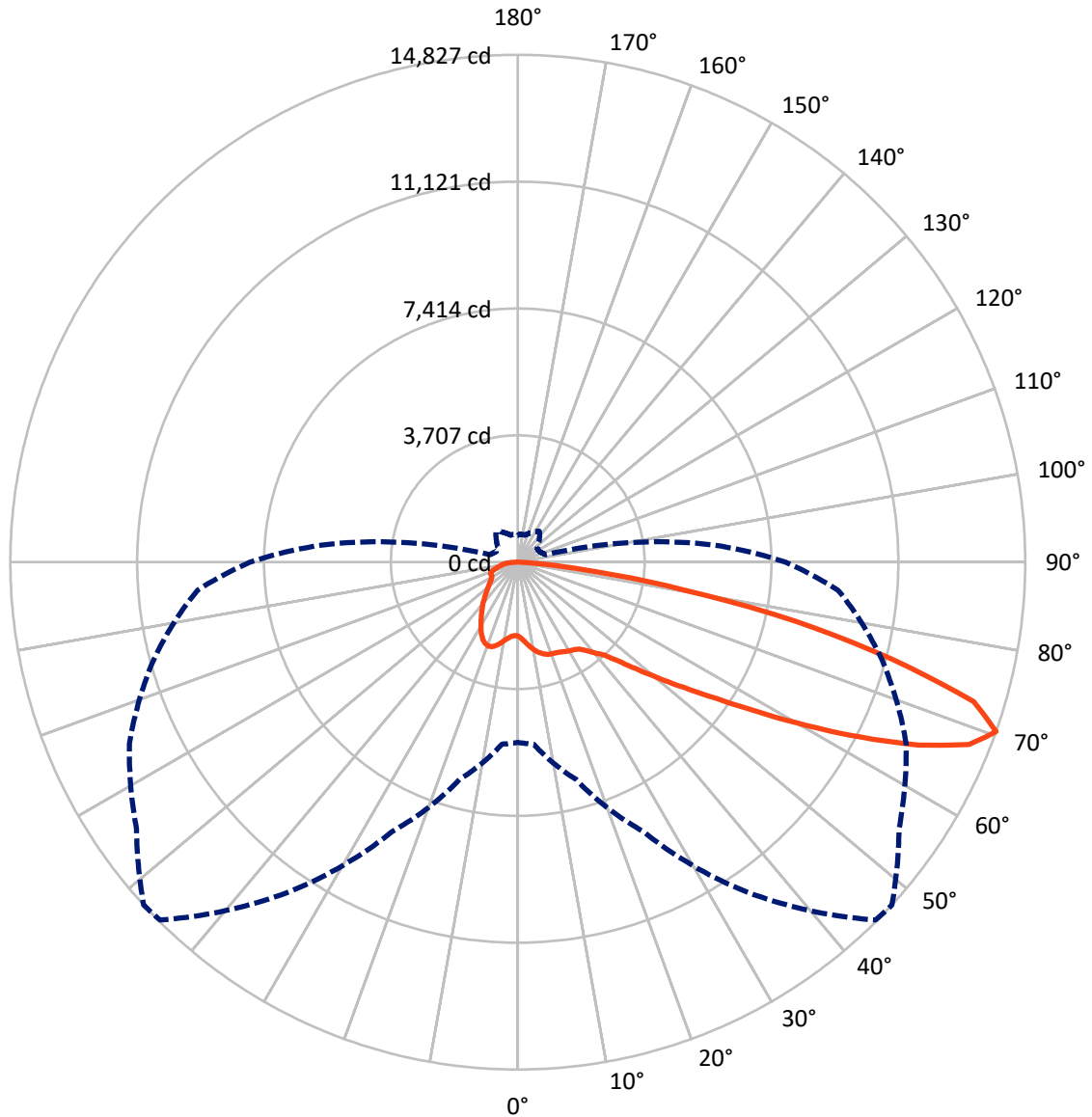
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	4874.4	0.0	4874.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16653.7	0.0	16653.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	21528.0	0.0	21528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.8	1.0
10°-20°	744.7	3.5
20°-30°	1238.5	5.8
30°-40°	1755.4	8.2
40°-50°	2591.3	12.0
50°-60°	4488.2	20.8
60°-70°	6339.8	29.4
70°-80°	3644.5	16.9
80°-90°	502.9	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°	21528.0	100.0
0°-180°	21528.0	100.0

Coefficient of Utilization



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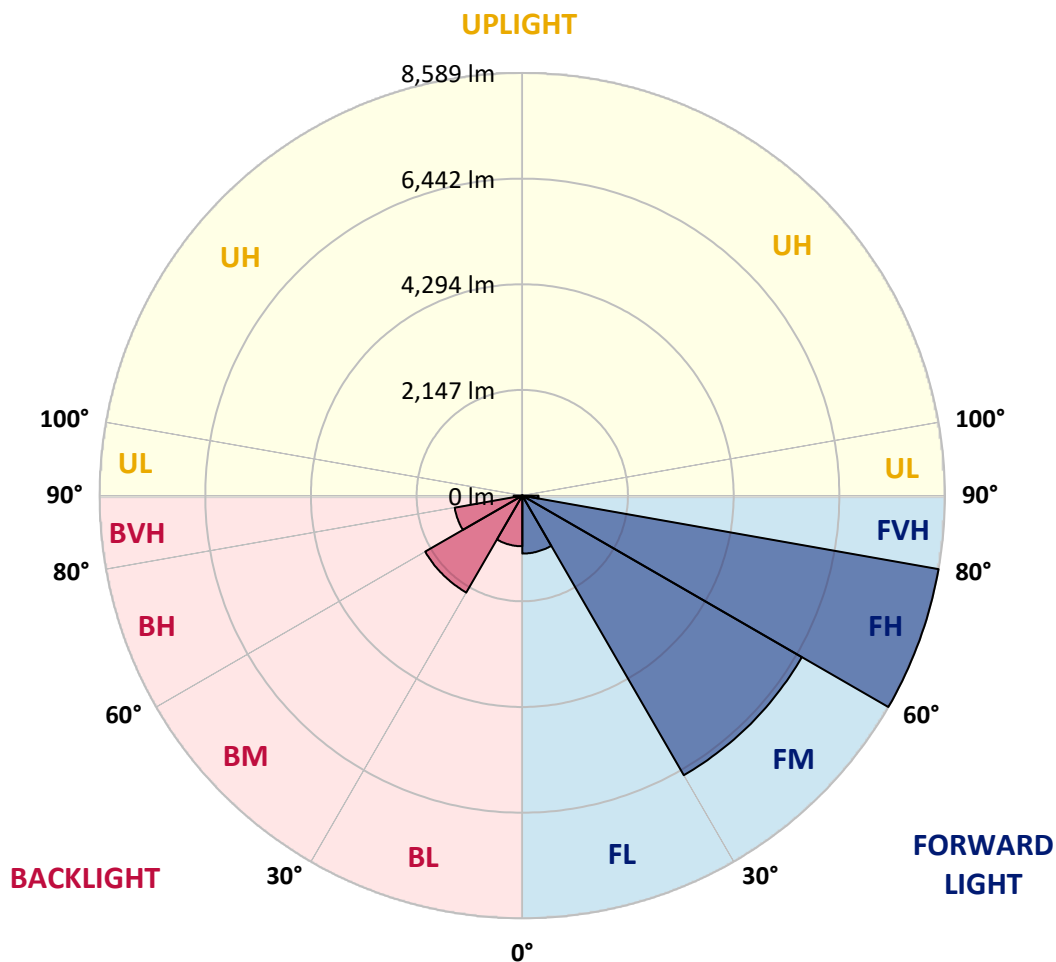
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1177.2	5.5			
FM	(30°-60°)	6559.2	30.5			
FH	(60°-80°)	8588.8	39.9			G4/12000
FVH	(80°-90°)	328.5	1.5			G3/500
BL	(0°-30°)	1028.8	4.8	B3/2500		
BM	(30°-60°)	2275.8	10.6	B2/2500		
BH	(60°-80°)	1395.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	174.4	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°	2161.2	2161.2	2161.2	2161.2	2161.2	2161.2	2161.2	2161.2	2161.2	2161.2	2161.2
2.5°	2300.5	2292.5	2291.3	2274.0	2264.8	2247.6	2240.6	2224.5	2204.9	2185.3	2166.9
5°	2481.4	2481.4	2473.3	2449.2	2411.1	2372.0	2354.7	2323.6	2268.3	2223.4	2185.3
7.5°	2666.9	2669.2	2653.1	2617.3	2563.2	2499.8	2483.7	2437.6	2359.3	2293.6	2237.2
10°	2827.0	2827.0	2805.1	2756.7	2688.8	2619.6	2603.5	2551.7	2464.1	2382.3	2308.6
12.5°	2949.1	2949.1	2920.3	2857.0	2783.2	2721.0	2702.6	2653.1	2571.3	2480.3	2386.9
15°	3028.6	3022.8	2990.6	2919.2	2847.7	2793.6	2780.9	2739.5	2664.6	2572.4	2467.6
17.5°	3032.1	3029.8	2998.7	2938.8	2876.5	2839.7	2831.6	2804.0	2745.2	2657.7	2547.1
20°	2965.2	2969.9	2949.1	2906.5	2876.5	2860.4	2857.0	2847.7	2806.3	2724.5	2613.9
22.5°	2893.8	2901.9	2882.3	2859.3	2857.0	2873.1	2875.4	2877.7	2851.2	2771.7	2670.3
25°	2876.5	2882.3	2862.7	2842.0	2854.7	2897.3	2906.5	2915.7	2895.0	2828.2	2737.2
27.5°	2964.1	2959.5	2921.5	2876.5	2884.6	2942.2	2954.9	2965.2	2954.9	2897.3	2820.1
30°	3211.8	3196.8	3120.8	2989.4	2948.0	2988.3	3001.0	3029.8	3029.8	2987.1	2910.0
32.5°	3626.5	3597.7	3458.3	3200.3	3056.3	3032.1	3044.7	3092.0	3116.2	3082.8	2998.7
35°	4129.9	4100.0	3900.7	3553.9	3254.4	3119.6	3116.2	3169.2	3233.7	3158.8	3049.3
37.5°	4635.6	4604.5	4364.9	3975.6	3543.6	3303.9	3283.2	3301.6	3329.3	3192.2	3119.6
40°	5141.4	5104.5	4894.8	4446.7	3897.2	3548.2	3494.0	3411.1	3399.6	3301.6	3255.6
42.5°	5642.5	5609.1	5503.1	4975.5	4321.2	3786.6	3703.7	3560.8	3604.6	3545.9	3505.5
45°	6148.2	6150.5	6037.6	5568.8	4832.6	4226.7	4114.9	3891.5	3995.1	3973.2	3996.3
47.5°	6596.4	6590.6	6550.3	6144.8	5467.4	4793.5	4649.5	4390.3	4567.7	4648.3	4824.6
50°	7030.7	7027.2	7029.5	6798.0	6204.7	5467.4	5308.4	5036.5	5436.3	5716.2	6031.9
52.5°	7652.7	7672.3	7532.9	7471.9	7100.9	6263.4	6088.3	5807.2	6462.7	6903.9	7520.3
55°	8277.1	8261.0	8151.6	8214.9	8038.7	7205.8	7022.6	6799.1	7605.5	8088.2	9014.4
57.5°	8644.6	8650.4	8762.1	9072.0	9196.4	8380.8	8214.9	8042.1	8890.0	9232.1	10343.8
60°	8975.2	9001.7	9323.1	9908.4	10245.9	9824.3	9676.8	9508.6	10068.5	10204.4	11498.1
62.5°	9078.9	9160.7	9721.7	10597.2	11268.9	11453.2	11270.0	10899.1	11190.5	11137.5	12280.3
65°	8561.7	8673.4	9679.1	10855.3	12182.4	12999.2	12882.8	12193.9	12146.7	11827.6	12408.2
67.5°	7200.0	7311.7	8603.1	10313.9	12560.3	14337.8	14221.4	13138.6	12727.3	11892.1	11440.5
70°	5268.1	5338.4	6573.3	8683.8	11801.1	14787.1	14827.4	13599.4	12519.9	11015.4	9393.4
72.5°	3035.5	3191.0	4056.2	6109.1	9641.1	13651.2	13931.1	12640.9	11209.0	9189.5	6567.6
75°	1305.2	1308.7	1875.5	3369.6	6529.5	10972.8	11243.5	10478.6	8802.4	6354.4	3506.7
77.5°	620.9	632.4	824.8	1504.5	3594.2	7581.3	8311.7	7402.8	5629.8	3052.8	1324.8
80°	403.2	411.3	504.6	746.5	1762.6	4396.0	4905.2	4270.5	2483.7	1090.9	571.4
82.5°	244.2	246.5	337.5	456.2	970.0	1990.7	2346.6	1853.6	1059.8	653.2	336.4
85°	148.6	149.8	205.1	282.2	588.7	687.7	706.2	700.4	622.1	427.4	179.7
87.5°	71.4	73.7	106.0	133.6	231.6	213.1	201.6	233.9	293.8	230.4	77.2
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°	2161.2	2161.2	2161.2	2161.2	2161.2	2161.2	2161.2	2161.2	2161.2	2161.2	2161.2
2.5°	2158.8	2155.4	2147.3	2143.9	2141.6	2142.7	2141.6	2141.6	2142.7	2142.7	2142.7
5°	2169.2	2163.5	2150.8	2150.8	2157.7	2173.8	2188.8	2200.3	2213.0	2211.8	2211.8
7.5°	2214.1	2203.8	2188.8	2193.4	2210.7	2236.0	2262.5	2287.9	2313.2	2315.5	2314.4
10°	2279.8	2269.4	2253.3	2259.1	2286.7	2324.7	2358.1	2395.0	2422.7	2430.7	2428.4
12.5°	2354.7	2334.0	2320.1	2336.3	2380.0	2430.7	2463.0	2490.6	2510.2	2521.7	2517.1
15°	2430.7	2411.1	2395.0	2428.4	2481.4	2528.6	2544.8	2549.4	2552.8	2564.4	2562.0
17.5°	2504.4	2478.0	2472.2	2516.0	2566.7	2587.4	2578.2	2558.6	2543.6	2552.8	2551.7
20°	2570.1	2549.4	2547.1	2590.8	2610.4	2590.8	2551.7	2517.1	2490.6	2492.9	2491.8
22.5°	2632.3	2616.2	2618.5	2636.9	2605.8	2539.0	2474.5	2427.3	2398.5	2404.2	2407.7
25°	2701.4	2685.3	2691.1	2661.1	2558.6	2442.2	2348.9	2308.6	2297.1	2308.6	2316.7
27.5°	2791.3	2780.9	2777.5	2662.3	2474.5	2299.4	2193.4	2178.4	2188.8	2214.1	2226.8
30°	2888.1	2888.1	2869.6	2642.7	2359.3	2127.7	2035.6	2037.9	2073.6	2109.3	2122.0
32.5°	2981.4	3001.0	2943.4	2589.7	2210.7	1960.7	1890.4	1892.7	1923.8	1967.6	1979.1
35°	3058.6	3115.0	3006.7	2492.9	2035.6	1820.2	1767.2	1736.1	1737.2	1770.6	1779.8
37.5°	3164.5	3269.4	3043.6	2348.9	1849.0	1700.4	1640.4	1586.3	1550.6	1536.8	1536.8
40°	3348.9	3503.2	3052.8	2135.8	1672.7	1586.3	1501.1	1436.5	1367.4	1305.2	1293.7
42.5°	3661.1	3855.7	3034.4	1890.4	1513.7	1460.7	1377.8	1298.3	1202.7	1115.1	1108.2
45°	4214.0	4314.2	2984.8	1635.8	1372.0	1339.8	1259.1	1172.7	1071.4	993.0	987.3
47.5°	5099.9	4958.2	2919.2	1410.0	1243.0	1233.8	1171.6	1071.4	970.0	915.8	910.1
50°	6393.6	5972.0	2910.0	1246.5	1139.3	1143.9	1093.2	1001.1	912.4	867.5	860.5
52.5°	7951.1	7196.5	2971.0	1131.3	1048.3	1065.6	1040.3	955.0	876.7	838.7	831.7
55°	9462.5	8297.9	3007.9	1041.4	963.1	995.3	998.8	927.4	855.9	817.9	813.3
57.5°	10689.4	9127.3	2844.3	959.6	889.3	938.9	964.2	911.2	845.6	816.8	812.2
60°	11543.0	9519.0	2378.9	887.0	835.2	894.0	951.6	912.4	870.9	874.4	876.7
62.5°	11814.9	9345.0	1784.4	832.9	798.3	879.0	972.3	959.6	917.0	943.5	948.1
65°	11364.5	8626.2	1293.7	790.3	766.1	889.3	1034.5	994.2	900.9	920.4	920.4
67.5°	9856.5	7431.6	1006.8	751.1	729.2	908.9	1096.7	990.7	862.8	885.9	865.2
70°	7818.6	5748.5	838.7	707.3	690.0	880.1	1102.5	955.0	817.9	822.5	783.4
72.5°	5188.6	3779.7	721.2	665.9	630.1	791.4	1055.2	908.9	774.1	747.6	708.5
75°	2542.5	1884.7	629.0	614.0	551.8	688.9	990.7	865.2	726.9	685.4	663.6
77.5°	985.0	801.8	536.8	548.4	480.4	607.1	905.5	802.9	664.7	608.3	591.0
80°	478.1	455.0	440.1	457.3	395.1	517.2	827.1	748.8	607.1	544.9	519.6
82.5°	297.2	281.1	337.5	356.0	304.1	472.3	784.5	702.7	534.5	451.6	430.8
85°	150.9	161.3	225.8	243.1	217.7	375.6	646.3	527.6	385.9	320.3	322.6
87.5°	57.6	77.2	118.7	127.9	116.4	198.1	356.0	307.6	247.7	168.2	155.5
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)