

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: P451849

Luminaire Tested: **GALN-SA2D-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11595 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

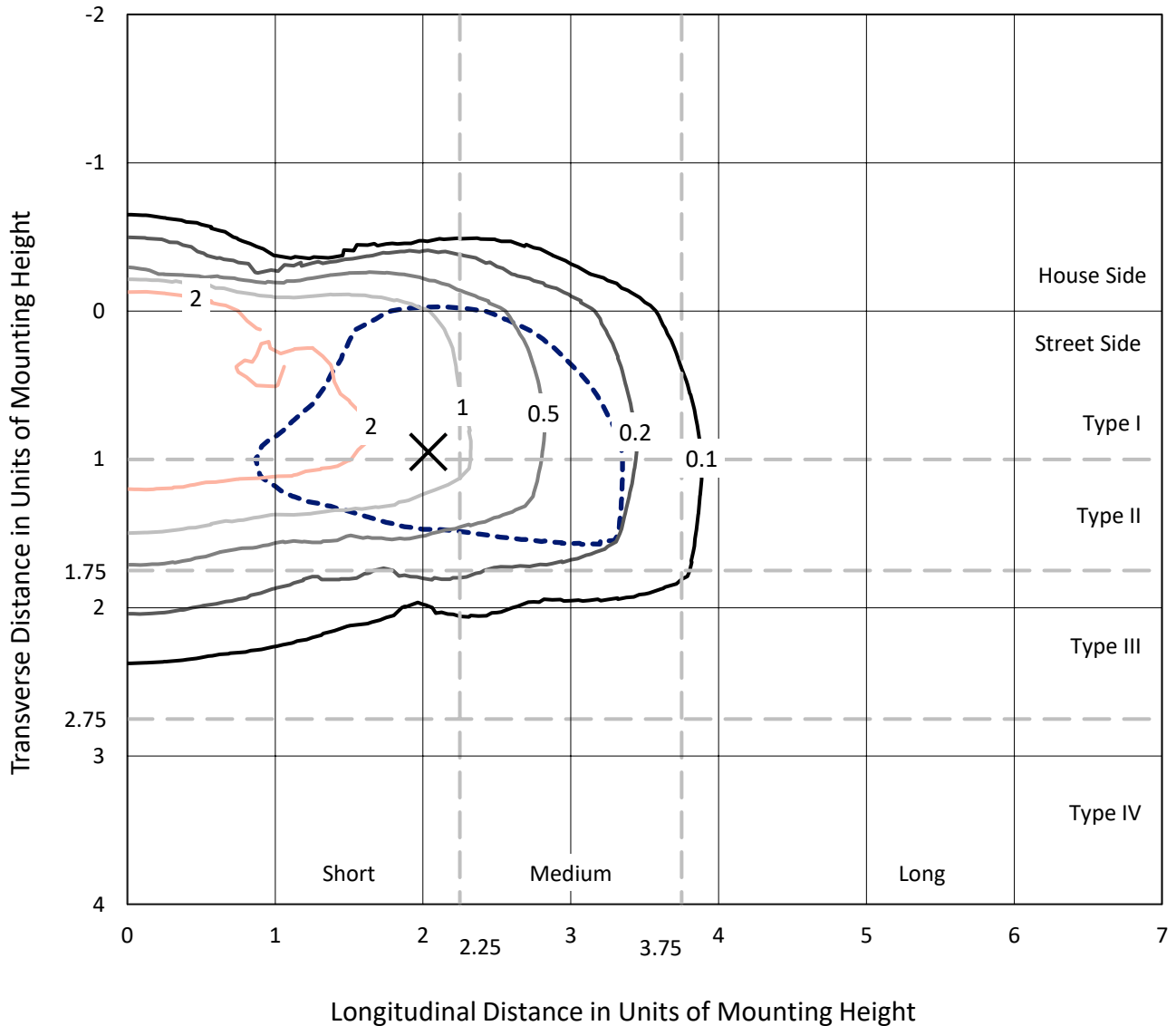
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451849
 CATALOG NUMBER: GALN-SA2D-730-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

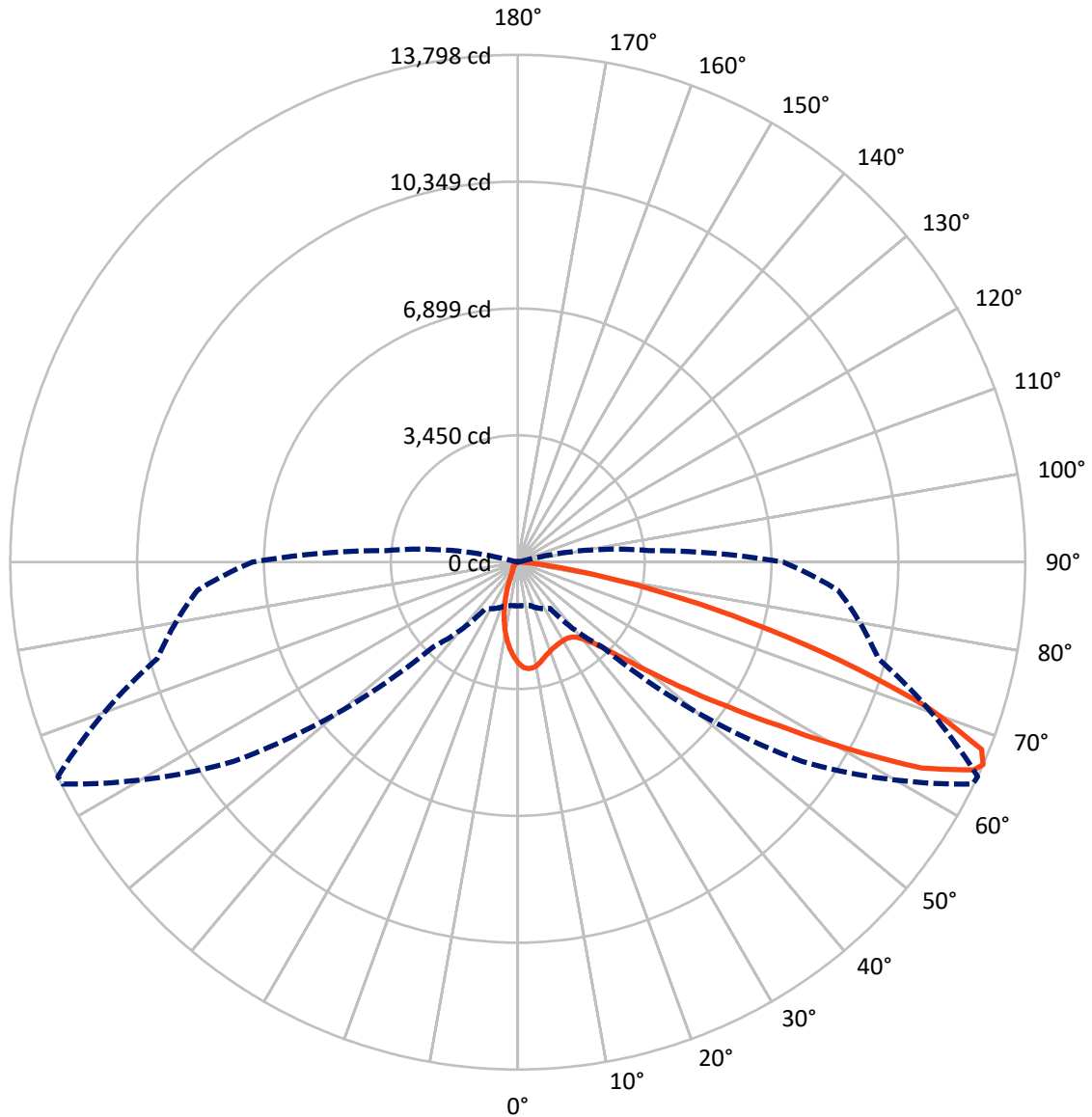
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

REPORT NUMBER: P451849
CATALOG NUMBER: GALN-SA2D-730-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P451849

CATALOG NUMBER: GALN-SA2D-730-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1199.1	0.0	1199.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	10395.9	0.0	10395.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	11595.0	0.0	11595.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	1.9
10°-20°	490.0	4.2
20°-30°	701.9	6.1
30°-40°	1025.2	8.8
40°-50°	1719.0	14.8
50°-60°	2868.8	24.7
60°-70°	3045.1	26.3
70°-80°	1379.1	11.9
80°-90°	141.1	1.2
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°	11595.0	100.0
0°-180°	11595.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451849

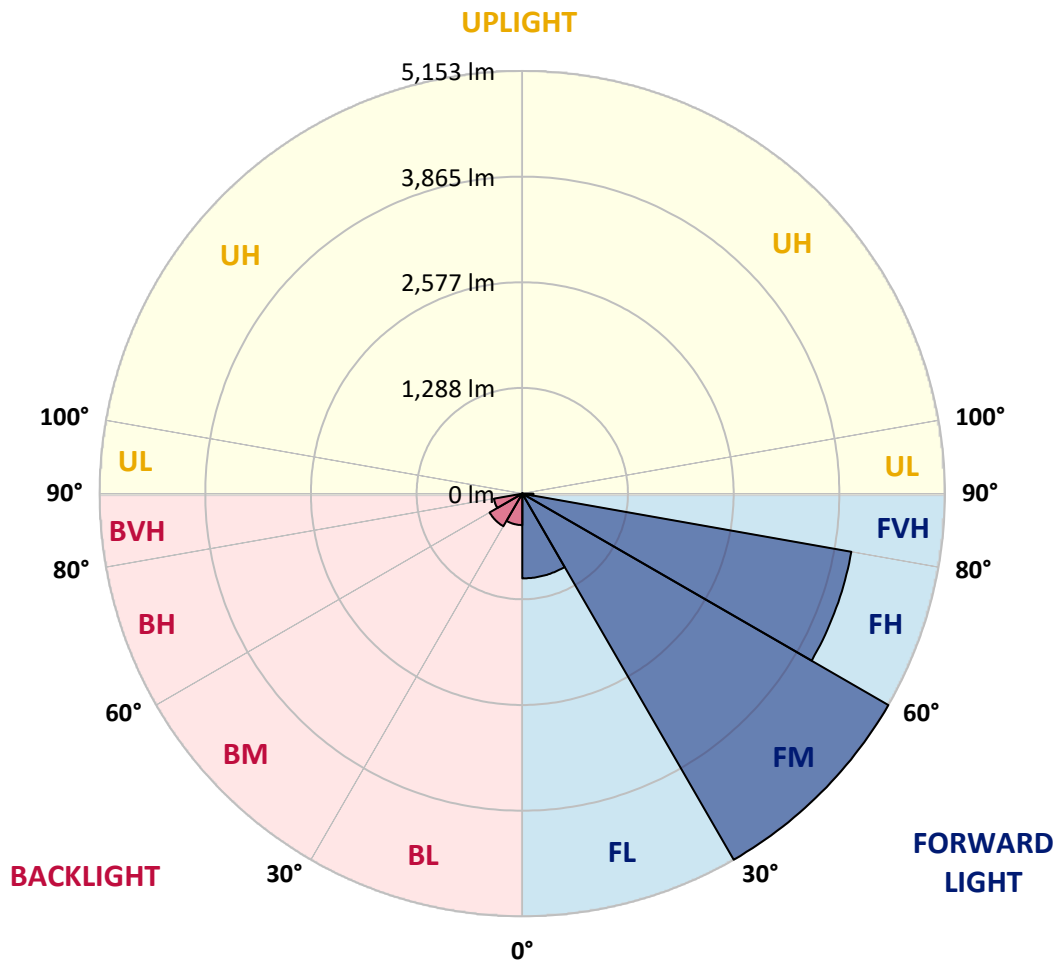
CATALOG NUMBER: GALN-SA2D-730-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1033.2	8.9			
FM (30°-60°)	5153.1	44.4			
FH (60°-80°)	4073.1	35.1			G2/5000
FVH (80°-90°)	136.6	1.2			G2/225
BL (0°-30°)	383.6	3.3	B1/500		
BM (30°-60°)	459.9	4.0	B1/1000		
BH (60°-80°)	351.2	3.0	B1/500		G1/500
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P451849

CATALOG NUMBER: GALN-SA2D-730-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2749.6	2749.6	2749.6	2749.6	2749.6	2749.6	2749.6	2749.6	2749.6	2749.6	2749.6
2.5°	2897.6	2900.7	2904.7	2910.1	2914.1	2902.3	2885.9	2867.1	2863.2	2823.2	2774.7
5°	2742.6	2747.3	2781.7	2800.5	2842.8	2881.2	2905.4	2908.6	2907.0	2869.4	2791.9
7.5°	2521.7	2535.0	2568.7	2601.6	2680.7	2753.5	2839.7	2900.0	2903.9	2893.7	2797.4
10°	2342.4	2351.0	2368.2	2433.2	2499.0	2610.2	2730.8	2844.4	2853.8	2894.5	2792.7
12.5°	2202.2	2214.7	2235.9	2286.0	2365.1	2470.0	2607.1	2759.8	2779.4	2879.6	2779.4
15°	2104.3	2110.6	2131.7	2181.0	2257.8	2354.9	2493.5	2671.3	2688.5	2860.0	2777.0
17.5°	2058.1	2065.1	2080.0	2119.2	2182.6	2272.7	2408.2	2600.0	2622.0	2847.5	2785.6
20°	2070.6	2076.9	2077.7	2098.0	2141.1	2217.1	2345.5	2533.5	2561.6	2839.7	2799.7
22.5°	2141.9	2142.7	2133.3	2123.9	2138.8	2193.6	2307.1	2491.2	2520.1	2838.1	2816.2
25°	2248.4	2250.7	2235.1	2202.2	2172.4	2200.6	2298.5	2463.8	2489.6	2834.2	2826.3
27.5°	2395.6	2394.8	2390.1	2335.3	2250.7	2231.9	2305.6	2448.9	2470.8	2823.2	2830.3
30°	2601.6	2595.3	2585.1	2523.3	2394.1	2307.9	2335.3	2439.5	2459.8	2807.6	2820.1
32.5°	2804.4	2827.9	2826.3	2767.6	2606.3	2443.4	2397.2	2452.0	2466.9	2797.4	2805.2
35°	3040.9	3040.1	3100.4	3078.5	2889.8	2616.5	2502.9	2493.5	2505.3	2804.4	2798.2
37.5°	3260.2	3280.6	3374.5	3397.3	3225.0	2860.8	2652.5	2582.8	2586.7	2852.2	2815.4
40°	3533.5	3572.7	3712.9	3788.8	3636.9	3223.4	2873.3	2746.5	2747.3	2969.7	2880.4
42.5°	3885.9	3947.8	4078.6	4205.5	4124.0	3652.6	3204.6	3005.7	3004.1	3176.4	3029.2
45°	4314.3	4357.4	4506.2	4707.5	4655.8	4251.7	3687.0	3407.4	3387.1	3515.5	3293.1
47.5°	4684.0	4742.7	4893.8	5123.3	5358.2	4983.1	4263.4	3959.6	3946.2	4055.1	3745.8
50°	4845.3	4897.0	5055.9	5377.8	5947.2	5943.2	5121.7	4765.4	4742.7	4801.4	4445.9
52.5°	4668.3	4716.8	4877.4	5278.4	6224.4	7113.3	6365.4	5776.4	5749.0	5673.8	5282.3
55°	4062.1	4102.1	4339.4	4799.9	6117.9	7893.3	8078.9	7025.5	6919.0	6626.9	6229.1
57.5°	3234.4	3214.0	3361.2	3896.1	5492.9	8154.8	9837.8	8581.6	8391.3	7450.8	7030.2
60°	2241.3	2304.0	2363.5	2715.9	4130.3	7701.4	10931.8	10537.9	10287.3	8261.3	7797.7
62.5°	1647.7	1689.2	1728.4	1891.3	2596.9	6149.2	11125.3	12547.5	12325.0	9122.0	8530.0
65°	1303.1	1306.3	1321.9	1482.5	1711.2	3998.7	10195.7	13680.7	13623.5	9950.6	8826.8
66°	1187.2	1188.0	1212.3	1384.6	1535.7	3256.3	9450.9	13766.8	13798.1	10149.5	8739.8
67.5°	1037.7	1034.5	1069.8	1244.4	1398.7	2347.9	8118.0	13417.5	13603.1	10302.2	8427.4
70°	804.3	800.4	843.4	1043.9	1288.3	1566.3	5395.8	11520.8	11819.9	9989.7	7456.3
72.5°	535.7	538.8	612.4	823.9	1229.5	1379.1	3246.1	8764.1	9187.0	8249.6	5865.7
75°	312.5	318.0	401.8	612.4	1067.4	1314.9	1837.2	6249.5	6519.6	5696.6	3654.1
77.5°	163.7	166.0	224.8	404.1	818.4	1220.9	1224.0	3992.4	4119.3	2768.4	1446.5
80°	86.9	84.6	120.6	243.6	563.1	1072.1	993.0	2113.7	2197.5	822.3	365.7
82.5°	32.9	36.0	64.2	159.8	332.8	769.8	855.2	934.3	905.3	180.9	153.5
85°	6.3	7.8	27.4	94.8	167.6	321.9	630.4	458.1	424.5	68.1	88.5
87.5°	0.8	1.6	7.8	22.7	24.3	108.9	186.4	126.9	109.6	25.1	36.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451849

CATALOG NUMBER: GALN-SA2D-730-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2749.6	2749.6	2749.6	2749.6	2749.6	2749.6	2749.6	2749.6	2749.6	2749.6	2749.6
2.5°	2751.2	2730.0	2659.5	2589.8	2518.6	2454.4	2410.5	2339.2	2321.2	2295.4	2280.5
5°	2745.7	2696.3	2560.9	2412.9	2275.0	2126.2	2012.7	1903.0	1844.3	1814.5	1803.6
7.5°	2730.0	2651.7	2440.3	2208.5	1987.6	1765.2	1571.8	1424.5	1329.8	1264.8	1220.9
10°	2698.7	2590.6	2300.1	1981.3	1647.7	1354.0	1108.9	922.5	778.4	733.0	734.6
12.5°	2666.6	2522.5	2143.5	1729.2	1315.7	945.2	685.2	538.0	469.1	446.4	441.7
15°	2636.8	2457.5	1990.0	1484.8	979.7	612.4	441.7	390.0	371.2	367.3	366.5
17.5°	2621.2	2397.2	1826.3	1205.3	683.7	415.8	354.0	339.9	334.4	330.5	328.9
20°	2607.9	2344.7	1669.7	943.7	467.5	340.7	317.2	303.9	294.5	290.5	288.2
22.5°	2598.5	2290.7	1507.5	730.7	357.9	302.3	281.1	263.9	250.6	245.9	242.8
25°	2584.4	2231.2	1343.9	534.1	301.5	268.6	244.3	224.0	206.7	198.1	196.6
27.5°	2564.0	2163.8	1164.5	395.5	269.4	238.9	209.1	184.0	166.8	157.4	158.2
30°	2531.1	2093.3	985.2	314.0	243.6	208.3	176.2	151.9	135.5	128.4	127.7
32.5°	2491.9	2008.0	820.7	269.4	220.1	180.9	147.2	126.1	113.6	108.1	107.3
35°	2455.1	1921.8	653.1	242.0	195.8	155.8	123.7	105.7	96.3	91.6	92.4
37.5°	2434.8	1845.1	509.0	220.1	176.2	133.9	106.5	90.8	82.2	78.3	77.5
40°	2448.1	1782.4	404.9	200.5	154.3	115.1	91.6	78.3	69.7	64.2	64.2
42.5°	2510.7	1755.0	326.6	181.7	133.9	99.5	79.9	67.3	58.0	52.5	53.3
45°	2701.8	1784.0	273.3	164.5	115.1	86.1	68.9	55.6	47.0	43.1	42.3
47.5°	3019.0	1892.8	236.5	146.4	98.7	73.6	58.0	46.2	37.6	34.5	33.7
50°	3573.5	2117.6	209.1	128.4	83.8	62.7	47.8	36.8	29.8	26.6	26.6
52.5°	4336.2	2607.9	189.5	108.1	70.5	53.3	39.2	29.8	23.5	21.1	20.4
55°	5133.5	3124.7	179.3	90.8	58.7	43.9	31.3	23.5	18.0	15.7	14.9
57.5°	5900.2	3530.4	167.6	73.6	47.0	33.7	24.3	18.0	12.5	11.0	10.2
60°	6635.5	3858.5	142.5	58.7	36.8	24.3	18.0	12.5	8.6	7.0	7.0
62.5°	7293.4	4049.6	112.0	47.0	28.2	17.2	11.7	9.4	6.3	4.7	4.7
65°	7370.1	3801.4	84.6	36.0	20.4	11.0	7.0	7.0	4.7	3.1	3.1
66°	7215.8	3590.7	74.4	32.9	18.0	9.4	6.3	5.5	3.9	2.3	2.3
67.5°	6871.3	3231.2	64.2	28.2	14.9	7.0	4.7	4.7	3.1	1.6	1.6
70°	5937.0	2639.2	50.9	21.1	11.0	5.5	3.1	3.1	2.3	1.6	1.6
72.5°	4525.0	1970.4	41.5	15.7	7.8	3.9	2.3	2.3	2.3	1.6	1.6
75°	2729.2	1061.2	32.1	11.7	7.0	3.1	1.6	2.3	3.1	2.3	1.6
77.5°	1005.6	361.0	25.1	9.4	5.5	3.1	1.6	1.6	3.1	2.3	2.3
80°	246.7	94.0	18.0	7.8	5.5	3.1	1.6	1.6	3.1	3.1	3.1
82.5°	114.3	39.9	12.5	7.0	5.5	3.1	1.6	1.6	2.3	3.1	3.1
85°	65.8	18.8	10.2	7.8	5.5	3.1	1.6	1.6	2.3	3.1	3.1
87.5°	26.6	9.4	9.4	7.8	6.3	3.9	1.6	1.6	1.6	2.3	2.3
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)