

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: P452110

Luminaire Tested: **GALN-SA3A-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452110
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-SA3A-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA 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: 11173 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

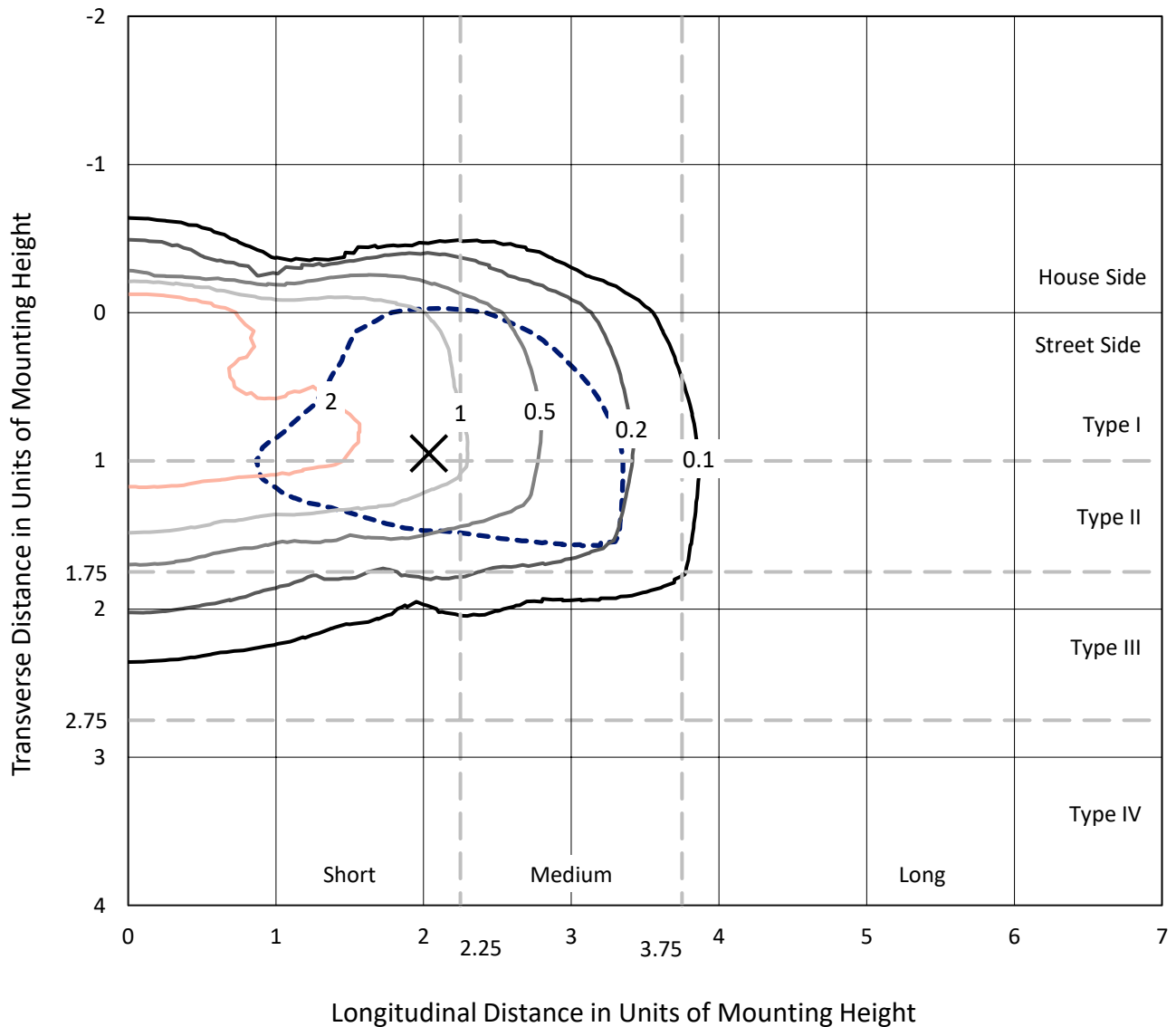
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

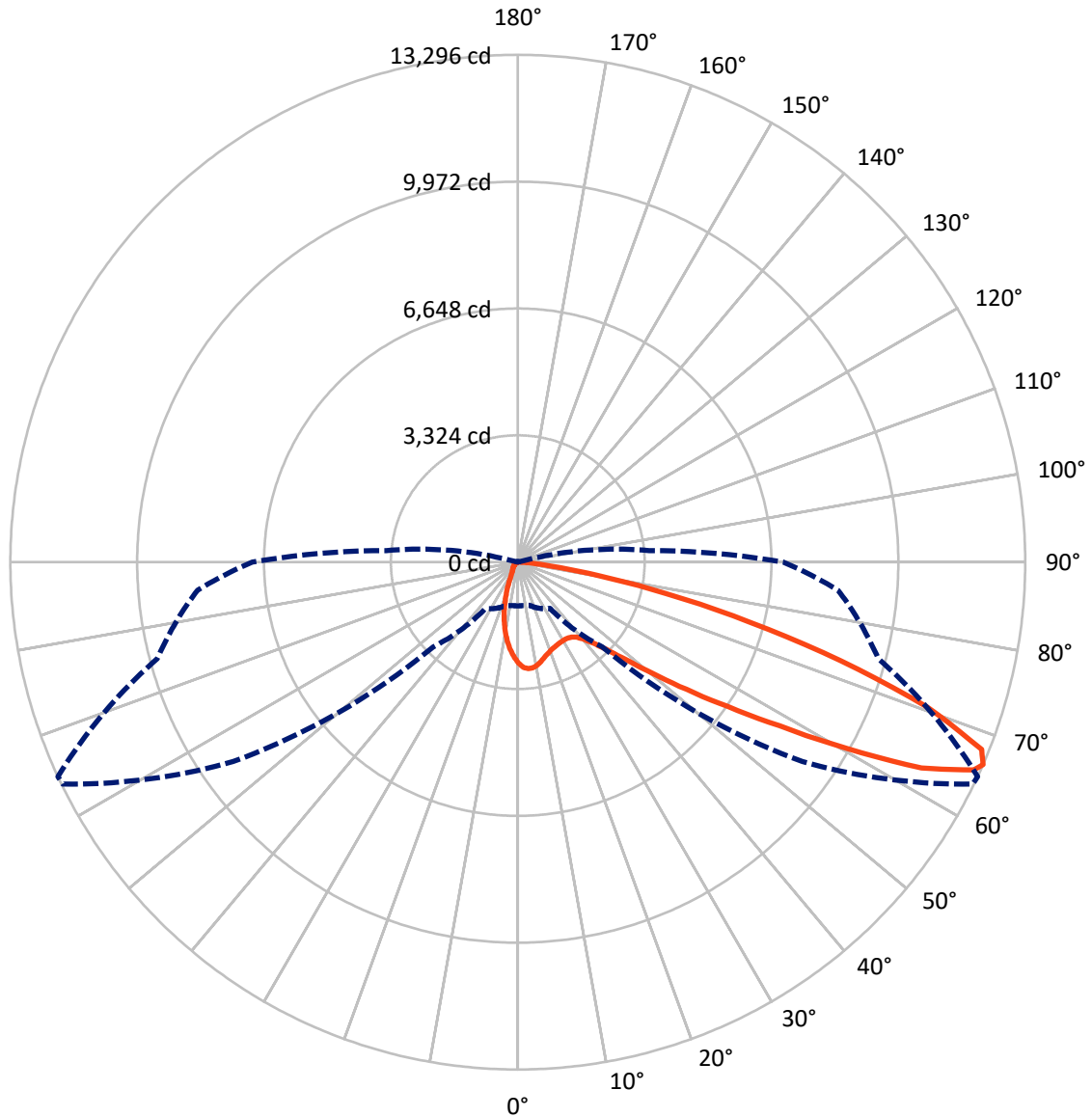
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1155.4	0.0	1155.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	10017.5	0.0	10017.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	11173.0	0.0	11173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	1.9
10°-20°	472.1	4.2
20°-30°	676.3	6.1
30°-40°	987.9	8.8
40°-50°	1656.4	14.8
50°-60°	2764.4	24.7
60°-70°	2934.3	26.3
70°-80°	1328.9	11.9
80°-90°	136.0	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°	11173.0	100.0
0°-180°	11173.0	100.0

Coefficient of Utilization



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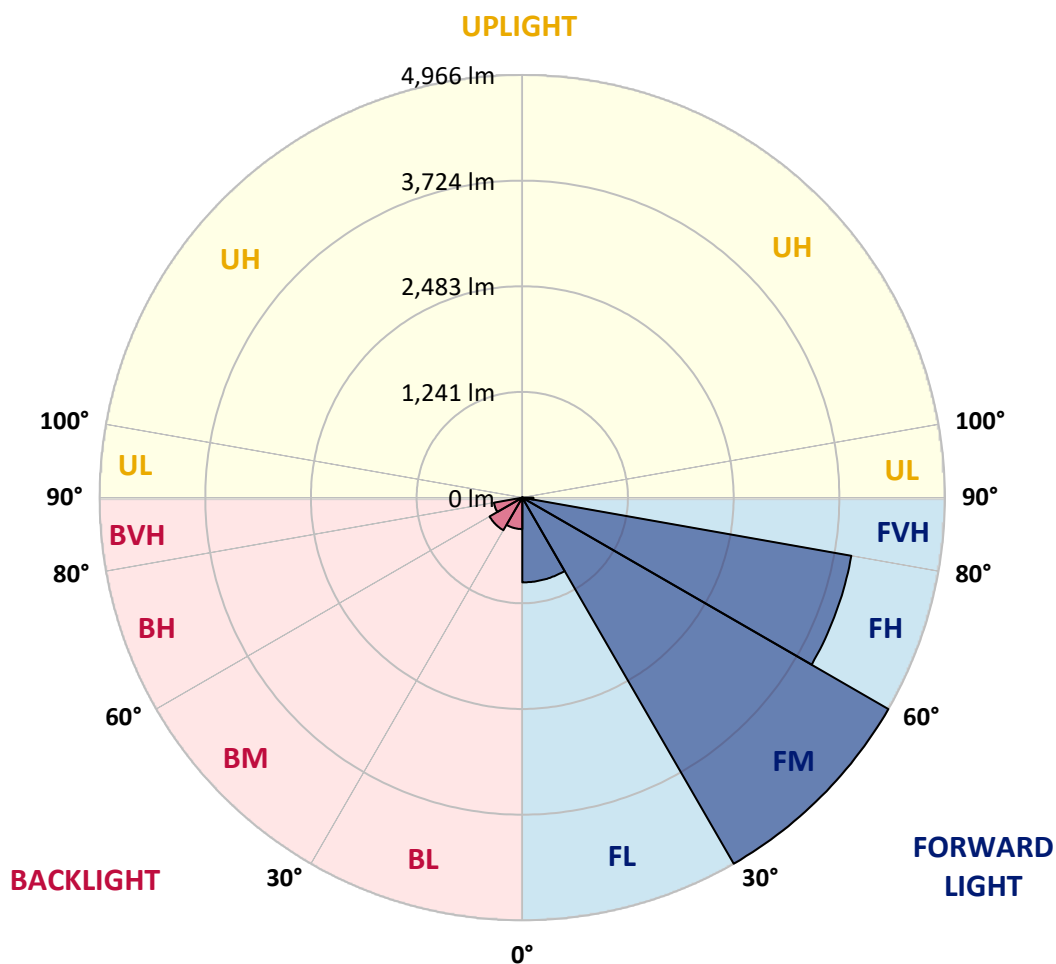
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	995.6	8.9			
FM (30°-60°)	4965.5	44.4			
FH (60°-80°)	3924.8	35.1			G2/5000
FVH (80°-90°)	131.6	1.2			G2/225
BL (0°-30°)	369.6	3.3	B1/500		
BM (30°-60°)	443.1	4.0	B1/1000		
BH (60°-80°)	338.4	3.0	B1/500		G1/500
BVH (80°-90°)	4.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5
2.5°	2792.2	2795.2	2798.9	2804.2	2808.0	2796.7	2780.8	2762.7	2759.0	2720.5	2673.7
5°	2642.7	2647.3	2680.5	2698.6	2739.3	2776.3	2799.7	2802.7	2801.2	2765.0	2690.3
7.5°	2429.9	2442.8	2475.2	2506.9	2583.1	2653.3	2736.3	2794.4	2798.2	2788.4	2695.6
10°	2257.1	2265.4	2282.0	2344.7	2408.0	2515.2	2631.4	2740.8	2749.9	2789.1	2691.0
12.5°	2122.0	2134.1	2154.5	2202.8	2279.0	2380.1	2512.2	2659.3	2678.2	2774.8	2678.2
15°	2027.7	2033.7	2054.1	2101.7	2175.6	2269.2	2402.8	2574.1	2590.7	2755.9	2675.9
17.5°	1983.2	1990.0	2004.3	2042.0	2103.2	2190.0	2320.5	2505.4	2526.5	2743.9	2684.2
20°	1995.3	2001.3	2002.1	2021.7	2063.2	2136.4	2260.1	2441.3	2468.4	2736.3	2697.8
22.5°	2063.9	2064.7	2055.6	2046.6	2060.9	2113.7	2223.2	2400.5	2428.4	2734.8	2713.7
25°	2166.6	2168.8	2153.7	2122.0	2093.4	2120.5	2214.9	2374.1	2399.0	2731.0	2723.5
27.5°	2308.4	2307.7	2303.2	2250.3	2168.8	2150.7	2221.7	2359.7	2380.9	2720.5	2727.3
30°	2506.9	2500.9	2491.1	2431.4	2306.9	2223.9	2250.3	2350.7	2370.3	2705.4	2717.4
32.5°	2702.4	2725.0	2723.5	2666.9	2511.4	2354.5	2309.9	2362.8	2377.1	2695.6	2703.1
35°	2930.3	2929.5	2987.6	2966.5	2784.6	2521.2	2411.8	2402.8	2414.1	2702.4	2696.3
37.5°	3141.6	3161.2	3251.7	3273.6	3107.6	2756.7	2556.0	2488.8	2492.6	2748.4	2712.9
40°	3404.9	3442.7	3577.7	3650.9	3504.5	3106.1	2768.8	2646.5	2647.3	2861.6	2775.6
42.5°	3744.5	3804.1	3930.1	4052.4	3973.9	3519.6	3088.0	2896.3	2894.8	3060.8	2918.9
45°	4157.3	4198.8	4342.2	4536.1	4486.3	4096.9	3552.8	3283.4	3263.8	3387.6	3173.2
47.5°	4513.5	4570.1	4715.7	4936.8	5163.2	4801.8	4108.2	3815.4	3802.6	3907.5	3609.4
50°	4668.9	4718.7	4871.9	5182.1	5730.7	5726.9	4935.3	4592.0	4570.1	4626.7	4284.1
52.5°	4498.4	4545.2	4699.9	5086.3	5997.9	6854.4	6133.7	5566.2	5539.8	5467.3	5090.0
55°	3914.3	3952.8	4181.4	4625.2	5895.2	7606.0	7784.8	6769.8	6667.2	6385.7	6002.4
57.5°	3116.7	3097.0	3238.9	3754.3	5293.0	7858.0	9479.7	8269.3	8085.9	7179.6	6774.4
60°	2159.8	2220.1	2277.5	2617.1	3980.0	7421.1	10534.0	10154.4	9912.9	7960.7	7513.9
62.5°	1587.8	1627.8	1665.5	1822.4	2502.4	5925.4	10720.4	12090.8	11876.5	8790.0	8219.5
65°	1255.7	1258.7	1273.8	1428.5	1648.9	3853.2	9824.6	13182.8	13127.7	9588.4	8505.5
66°	1144.0	1144.8	1168.2	1334.2	1479.8	3137.8	9107.0	13265.8	13295.9	9780.1	8421.7
67.5°	999.9	996.9	1030.8	1199.1	1347.8	2262.4	7822.6	12929.2	13108.0	9927.2	8120.6
70°	775.0	771.2	812.7	1005.9	1241.4	1509.3	5199.4	11101.5	11389.7	9626.1	7184.9
72.5°	516.2	519.2	590.1	793.9	1184.8	1328.9	3128.0	8445.1	8852.6	7949.3	5652.2
75°	301.1	306.4	387.1	590.1	1028.6	1267.0	1770.4	6022.0	6282.4	5489.2	3521.1
77.5°	157.7	160.0	216.6	389.4	788.6	1176.5	1179.5	3847.1	3969.4	2667.6	1393.8
80°	83.8	81.5	116.2	234.7	542.6	1033.1	956.9	2036.8	2117.5	792.4	352.4
82.5°	31.7	34.7	61.9	153.9	320.7	741.8	824.1	900.3	872.4	174.3	147.9
85°	6.0	7.5	26.4	91.3	161.5	310.2	607.5	441.5	409.0	65.7	85.3
87.5°	0.8	1.5	7.5	21.9	23.4	104.9	179.6	122.3	105.6	24.1	35.5
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°	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5
2.5°	2651.0	2630.7	2562.7	2495.6	2426.9	2365.0	2322.8	2254.1	2236.7	2211.8	2197.5
5°	2645.8	2598.2	2467.7	2325.0	2192.2	2048.8	1939.4	1833.8	1777.2	1748.5	1737.9
7.5°	2630.7	2555.2	2351.4	2128.1	1915.3	1701.0	1514.6	1372.7	1281.4	1218.7	1176.5
10°	2600.5	2496.3	2216.4	1909.2	1587.8	1304.8	1068.6	889.0	750.1	706.3	707.8
12.5°	2569.5	2430.7	2065.4	1666.2	1267.8	910.8	660.3	518.4	452.0	430.1	425.6
15°	2540.9	2368.1	1917.5	1430.8	944.1	590.1	425.6	375.8	357.7	353.9	353.2
17.5°	2525.8	2309.9	1759.8	1161.4	658.8	400.7	341.1	327.5	322.2	318.5	316.9
20°	2512.9	2259.4	1608.9	909.3	450.5	328.3	305.6	292.8	283.7	280.0	277.7
22.5°	2503.9	2207.3	1452.7	704.1	344.9	291.3	270.9	254.3	241.5	237.0	233.9
25°	2490.3	2150.0	1295.0	514.7	290.5	258.8	235.4	215.8	199.2	190.9	189.4
27.5°	2470.7	2085.1	1122.1	381.1	259.6	230.2	201.5	177.3	160.7	151.7	152.4
30°	2439.0	2017.1	949.3	302.6	234.7	200.7	169.8	146.4	130.6	123.8	123.0
32.5°	2401.3	1934.9	790.9	259.6	212.1	174.3	141.9	121.5	109.4	104.1	103.4
35°	2365.8	1851.9	629.4	233.2	188.7	150.2	119.2	101.9	92.8	88.3	89.0
37.5°	2346.2	1777.9	490.5	212.1	169.8	129.0	102.6	87.5	79.2	75.5	74.7
40°	2359.0	1717.6	390.1	193.2	148.7	110.9	88.3	75.5	67.2	61.9	61.9
42.5°	2419.4	1691.1	314.7	175.1	129.0	95.8	77.0	64.9	55.8	50.6	51.3
45°	2603.5	1719.1	263.4	158.5	110.9	83.0	66.4	53.6	45.3	41.5	40.8
47.5°	2909.1	1824.0	227.9	141.1	95.1	70.9	55.8	44.5	36.2	33.2	32.4
50°	3443.4	2040.5	201.5	123.8	80.7	60.4	46.0	35.5	28.7	25.7	25.7
52.5°	4178.4	2512.9	182.6	104.1	67.9	51.3	37.7	28.7	22.6	20.4	19.6
55°	4946.6	3011.0	172.8	87.5	56.6	42.3	30.2	22.6	17.4	15.1	14.3
57.5°	5685.4	3401.9	161.5	70.9	45.3	32.4	23.4	17.4	12.1	10.6	9.8
60°	6394.0	3718.1	137.3	56.6	35.5	23.4	17.4	12.1	8.3	6.8	6.8
62.5°	7027.9	3902.2	107.9	45.3	27.2	16.6	11.3	9.1	6.0	4.5	4.5
65°	7101.9	3663.0	81.5	34.7	19.6	10.6	6.8	6.8	4.5	3.0	3.0
66°	6953.2	3460.0	71.7	31.7	17.4	9.1	6.0	5.3	3.8	2.3	2.3
67.5°	6621.2	3113.6	61.9	27.2	14.3	6.8	4.5	4.5	3.0	1.5	1.5
70°	5720.9	2543.1	49.1	20.4	10.6	5.3	3.0	3.0	2.3	1.5	1.5
72.5°	4360.3	1898.7	40.0	15.1	7.5	3.8	2.3	2.3	2.3	1.5	1.5
75°	2629.9	1022.5	30.9	11.3	6.8	3.0	1.5	2.3	3.0	2.3	1.5
77.5°	969.0	347.9	24.1	9.1	5.3	3.0	1.5	1.5	3.0	2.3	2.3
80°	237.7	90.6	17.4	7.5	5.3	3.0	1.5	1.5	3.0	3.0	3.0
82.5°	110.2	38.5	12.1	6.8	5.3	3.0	1.5	1.5	2.3	3.0	3.0
85°	63.4	18.1	9.8	7.5	5.3	3.0	1.5	1.5	2.3	3.0	3.0
87.5°	25.7	9.1	9.1	7.5	6.0	3.8	1.5	1.5	1.5	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)