

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: P452083

Luminaire Tested: **GALN-SA3A-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10285 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

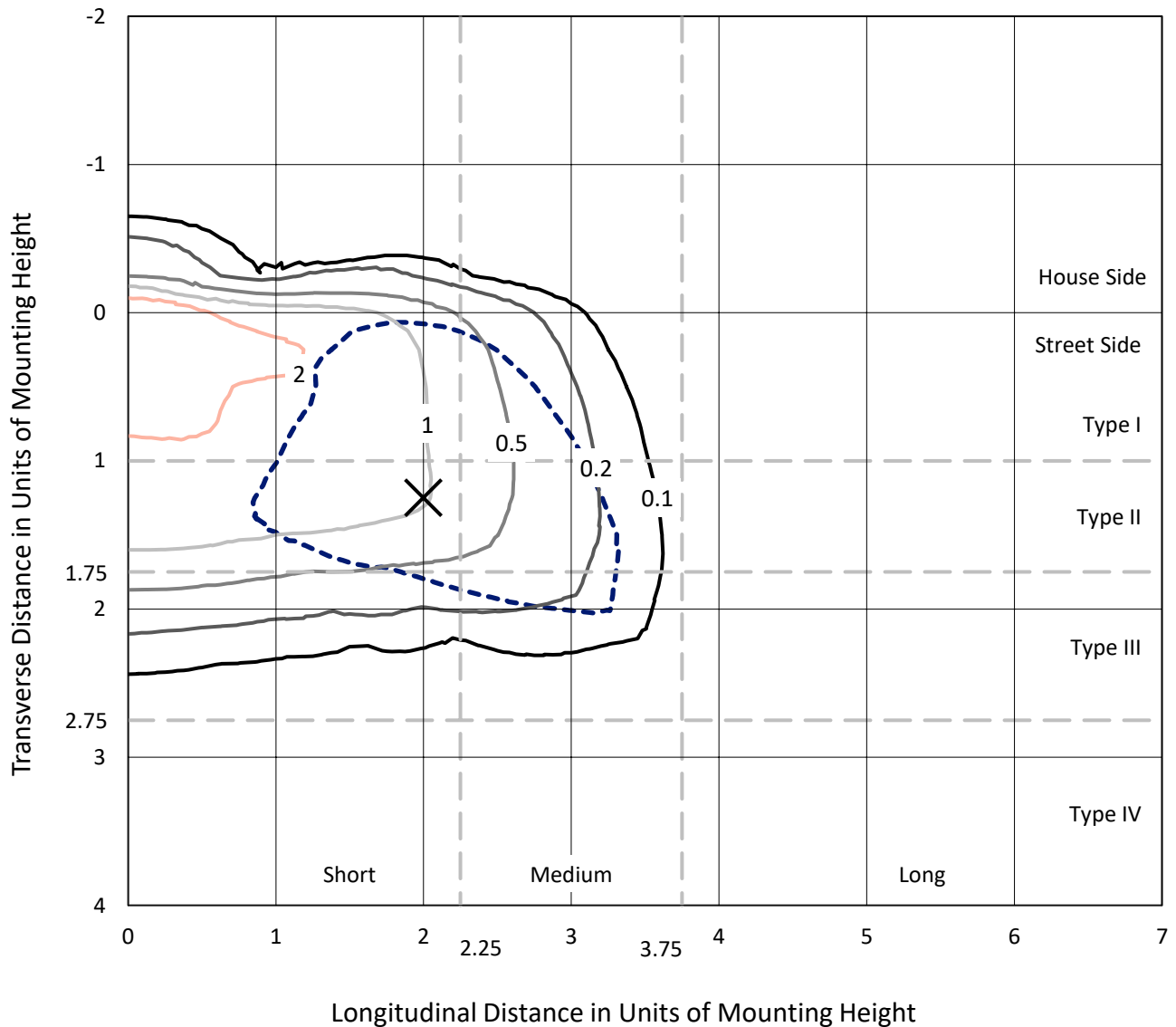
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452083
 CATALOG NUMBER: GALN-SA3A-730-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

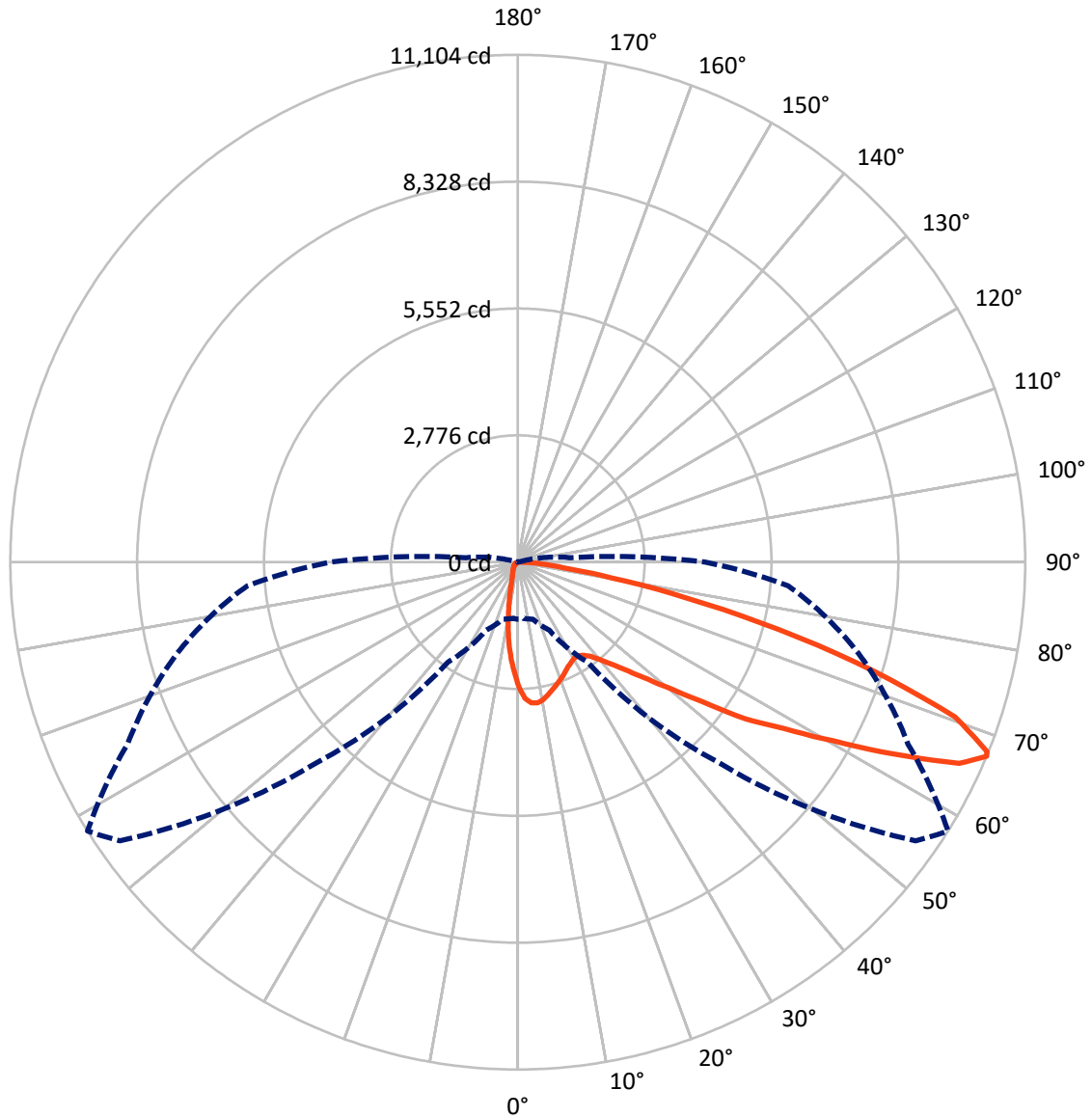
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

REPORT NUMBER: P452083
CATALOG NUMBER: GALN-SA3A-730-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P452083

CATALOG NUMBER: GALN-SA3A-730-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	742.2	0.0	742.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	9542.8	0.0	9542.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	10285.0	0.0	10285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	2.2
10°-20°	477.8	4.6
20°-30°	647.5	6.3
30°-40°	898.0	8.7
40°-50°	1432.3	13.9
50°-60°	2475.8	24.1
60°-70°	2828.2	27.5
70°-80°	1179.1	11.5
80°-90°	125.0	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°	10285.0	100.0
0°-180°	10285.0	100.0

Coefficient of Utilization

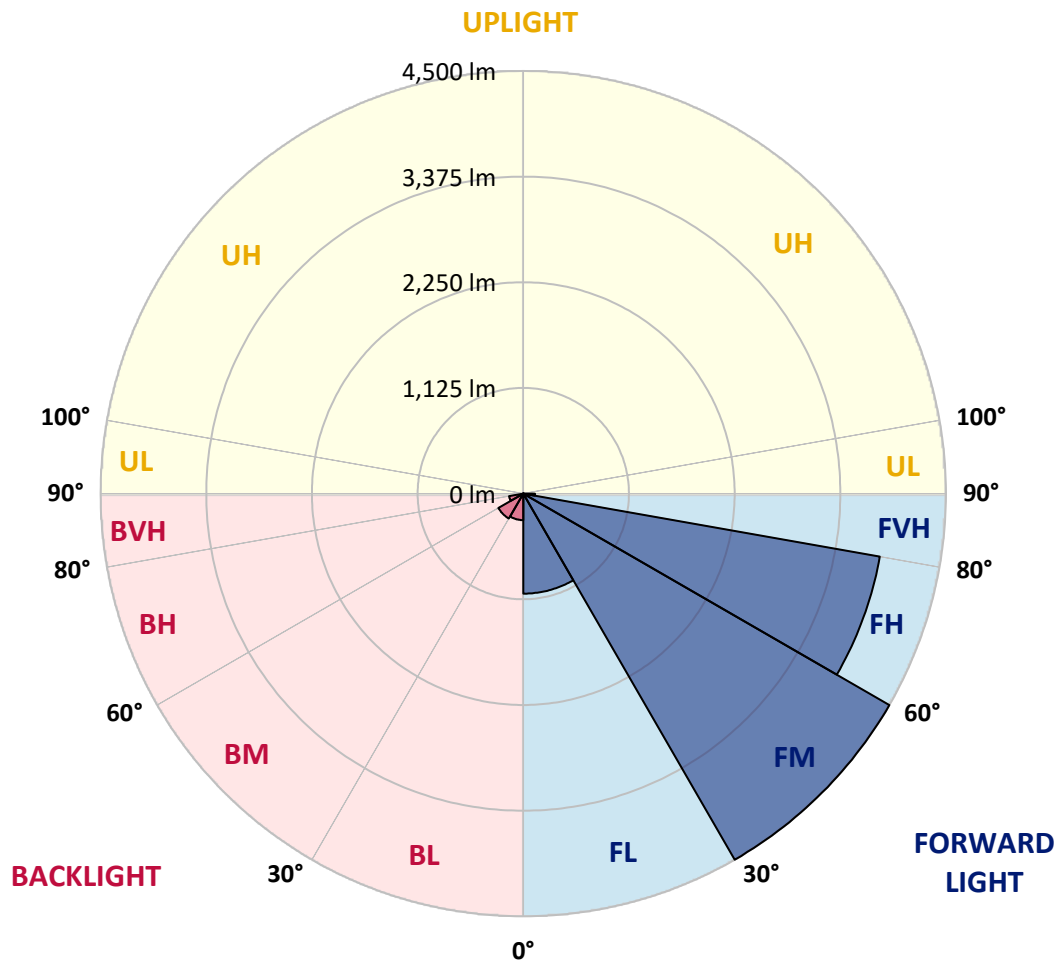


REPORT NUMBER: P452083
 CATALOG NUMBER: GALN-SA3A-730-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1064.7	10.4			
FM (30°-60°)	4500.1	43.8			
FH (60°-80°)	3853.8	37.5			G2/5000
FVH (80°-90°)	124.1	1.2			G2/225
BL (0°-30°)	281.8	2.7	B1/500		
BM (30°-60°)	306.0	3.0	B1/1000		
BH (60°-80°)	153.4	1.5	B1/500		G1/500
BVH (80°-90°)	0.9	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 III Short





REPORT NUMBER: P452083

CATALOG NUMBER: GALN-SA3A-730-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5
2.5°	3164.3	3169.1	3151.2	3136.8	3099.7	3059.8	3006.9	2978.7	2930.6	2847.4	2755.3
5°	3238.5	3244.7	3241.9	3238.5	3224.1	3185.6	3118.2	3093.5	3022.7	2887.3	2721.0
7.5°	3073.5	3096.2	3099.0	3125.8	3151.2	3154.6	3129.2	3110.7	3045.4	2886.6	2659.8
10°	2855.0	2870.1	2892.1	2923.0	2984.2	3035.0	3059.8	3057.0	3019.2	2865.3	2588.3
12.5°	2634.4	2642.6	2676.3	2729.2	2804.1	2890.7	2956.7	2969.8	2970.4	2839.9	2528.5
15°	2444.7	2441.2	2467.4	2528.5	2633.7	2742.3	2860.5	2881.1	2914.1	2815.1	2472.9
17.5°	2282.5	2300.3	2304.5	2371.8	2468.7	2609.6	2760.1	2796.6	2862.5	2793.8	2426.8
20°	2182.1	2191.8	2200.7	2238.5	2325.8	2474.2	2666.0	2716.1	2814.4	2774.6	2375.3
22.5°	2152.6	2158.8	2151.2	2162.9	2224.7	2356.7	2563.6	2630.2	2768.4	2756.7	2333.3
25°	2175.3	2181.4	2163.6	2149.8	2171.1	2261.2	2464.6	2545.7	2731.3	2753.3	2301.7
27.5°	2230.2	2241.9	2217.2	2192.4	2180.1	2209.6	2386.9	2481.1	2705.8	2769.8	2287.3
30°	2316.1	2323.0	2304.5	2274.2	2246.0	2216.5	2346.4	2436.4	2699.0	2808.2	2285.9
32.5°	2409.6	2424.1	2413.7	2393.8	2357.4	2287.3	2358.1	2437.8	2715.5	2863.9	2303.1
35°	2525.1	2541.6	2551.2	2547.1	2500.3	2413.1	2432.3	2499.7	2759.4	2966.3	2349.8
37.5°	2638.5	2652.9	2707.2	2725.8	2684.5	2602.1	2576.6	2621.3	2856.4	3100.3	2434.4
40°	2768.4	2787.6	2863.9	2934.7	2914.8	2828.2	2781.4	2818.6	3004.8	3302.4	2594.5
42.5°	2892.8	2927.1	3043.3	3168.4	3186.9	3090.0	3059.1	3071.5	3224.7	3593.1	2817.9
45°	3069.4	3101.7	3251.5	3421.3	3508.6	3433.0	3401.4	3399.3	3526.5	4002.1	3180.1
47.5°	3324.4	3353.3	3529.9	3697.6	3852.9	3863.2	3803.4	3824.1	3905.8	4480.4	3624.1
50°	3637.1	3705.2	3821.3	3995.9	4203.4	4371.1	4389.7	4362.2	4432.3	5034.4	4157.4
52.5°	4091.4	4117.5	4224.1	4367.7	4611.0	4895.5	5116.1	5078.3	5056.4	5562.2	4696.2
55°	4430.2	4465.3	4630.9	4828.2	5184.9	5560.1	6038.5	6051.5	5773.9	6069.4	5223.4
57.5°	4327.8	4381.4	4632.3	5028.9	5813.1	6499.0	6855.0	6863.9	6437.8	6562.2	5818.6
60°	3802.1	3827.5	4186.9	4716.1	5866.7	7516.1	8013.1	7940.9	7113.4	7113.4	6344.3
62.5°	2696.2	2736.1	3027.5	3806.2	5298.3	7869.4	9400.0	9250.9	8044.0	7640.5	6657.7
65°	1723.0	1684.5	1877.7	2402.7	3947.1	7347.8	10607.6	10616.5	8919.6	7851.5	6486.6
67°	1248.1	1233.0	1288.7	1642.6	2676.3	6176.6	10633.0	11103.8	9422.7	7718.2	5939.5
67.5°	1141.6	1153.3	1193.8	1481.8	2431.6	5620.6	10517.5	11074.9	9536.1	7637.8	5741.6
70°	865.3	845.4	889.3	1048.1	1457.7	3545.7	9047.4	10157.4	9395.2	6839.9	4587.6
72.5°	636.4	634.4	695.5	857.0	1122.3	1888.7	6791.7	8144.3	7675.6	5208.2	2888.7
75°	429.6	448.8	546.4	716.2	1017.2	1224.7	4630.2	5908.6	5328.5	2957.4	1180.8
77.5°	244.7	246.0	351.9	575.3	913.4	985.6	2743.6	3764.3	2820.6	983.5	350.5
80°	105.8	116.2	174.6	417.9	757.4	872.9	1573.2	2068.7	1140.9	208.2	113.4
82.5°	39.2	46.0	77.0	257.0	552.6	718.9	950.5	987.6	386.9	73.5	70.8
85°	0.0	1.4	28.2	120.3	288.0	321.0	635.1	585.6	171.1	35.1	46.0
87.5°	0.0	0.0	0.0	12.4	37.8	119.6	197.3	219.9	41.2	12.4	11.0
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: P452083

CATALOG NUMBER: GALN-SA3A-730-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5
2.5°	2705.8	2661.2	2549.1	2437.1	2354.0	2284.5	2180.1	2123.0	2092.8	2048.1	2050.9
5°	2637.8	2547.1	2349.8	2145.7	1980.8	1819.9	1627.5	1549.8	1484.5	1447.4	1422.7
7.5°	2536.8	2402.7	2110.7	1838.5	1584.9	1303.8	1092.8	951.9	857.0	822.0	788.3
10°	2426.1	2248.1	1868.0	1490.7	1138.8	848.8	670.1	540.9	494.8	452.2	456.4
12.5°	2323.7	2107.2	1645.4	1176.6	797.9	539.5	420.6	367.7	352.6	347.8	347.8
15°	2239.9	1972.5	1406.2	884.5	547.1	387.6	336.8	322.3	316.8	315.5	315.5
17.5°	2150.5	1844.7	1190.4	653.6	397.9	324.4	307.2	297.6	295.5	294.2	294.2
20°	2070.8	1716.2	985.6	486.6	321.6	292.1	281.1	274.9	272.9	271.5	272.2
22.5°	1995.2	1602.1	793.1	367.7	283.2	266.0	255.0	248.8	244.7	241.2	241.9
25°	1927.8	1492.1	637.8	301.0	255.0	239.9	228.9	219.9	211.0	206.9	206.2
27.5°	1880.4	1395.9	496.9	257.7	229.6	213.1	199.3	188.3	176.6	170.4	169.1
30°	1841.2	1298.3	393.1	227.5	204.1	188.3	171.1	155.3	143.0	136.8	134.0
32.5°	1815.8	1205.5	310.0	202.7	182.8	163.6	144.3	128.5	114.8	108.6	107.2
35°	1811.7	1127.8	253.6	182.1	163.6	143.0	123.0	105.8	94.2	88.0	86.6
37.5°	1841.2	1068.0	212.4	165.6	147.8	125.1	103.1	87.3	77.0	72.2	71.5
40°	1920.3	1030.2	184.2	151.9	133.3	108.6	88.0	74.2	63.9	59.1	59.1
42.5°	2070.8	1031.6	165.6	138.8	118.9	92.8	74.9	61.9	52.9	48.8	47.4
45°	2305.8	1078.3	149.8	125.8	105.2	80.4	63.9	50.9	41.9	38.5	38.5
47.5°	2620.6	1171.1	136.1	112.7	92.8	68.7	54.3	41.2	33.7	30.2	30.2
50°	3032.3	1320.3	124.4	101.7	82.5	59.1	44.0	33.7	26.1	23.4	22.7
52.5°	3462.5	1504.5	110.7	92.1	70.8	50.2	35.7	26.1	19.9	17.9	17.2
55°	3937.5	1684.5	97.6	82.5	57.7	41.9	28.2	20.6	14.4	12.4	12.4
57.5°	4416.5	1861.2	81.8	68.7	45.4	30.9	22.0	15.1	9.6	7.6	7.6
60°	4822.0	1918.2	69.4	55.7	34.4	22.0	15.8	9.6	5.5	3.4	3.4
62.5°	4877.7	1725.8	58.4	42.6	24.7	15.1	8.2	5.5	2.1	1.4	1.4
65°	4575.3	1402.1	48.8	32.3	16.5	7.6	3.4	2.1	0.7	0.0	0.0
67°	4099.7	1136.8	39.9	24.1	11.7	4.8	2.1	0.7	0.0	0.0	0.0
67.5°	3978.0	1083.8	38.5	22.7	10.3	4.1	1.4	0.7	0.0	0.0	0.0
70°	3121.6	811.7	27.5	13.7	6.2	2.7	0.0	0.0	0.0	0.0	0.0
72.5°	1940.2	459.1	19.9	8.2	4.1	1.4	0.0	0.0	0.0	0.0	0.0
75°	733.3	160.8	13.7	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	228.2	61.2	8.2	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	77.0	23.4	5.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.4	9.6	3.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.6	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)