

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: P455460

Luminaire Tested: **GALN-SA6C-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22500 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

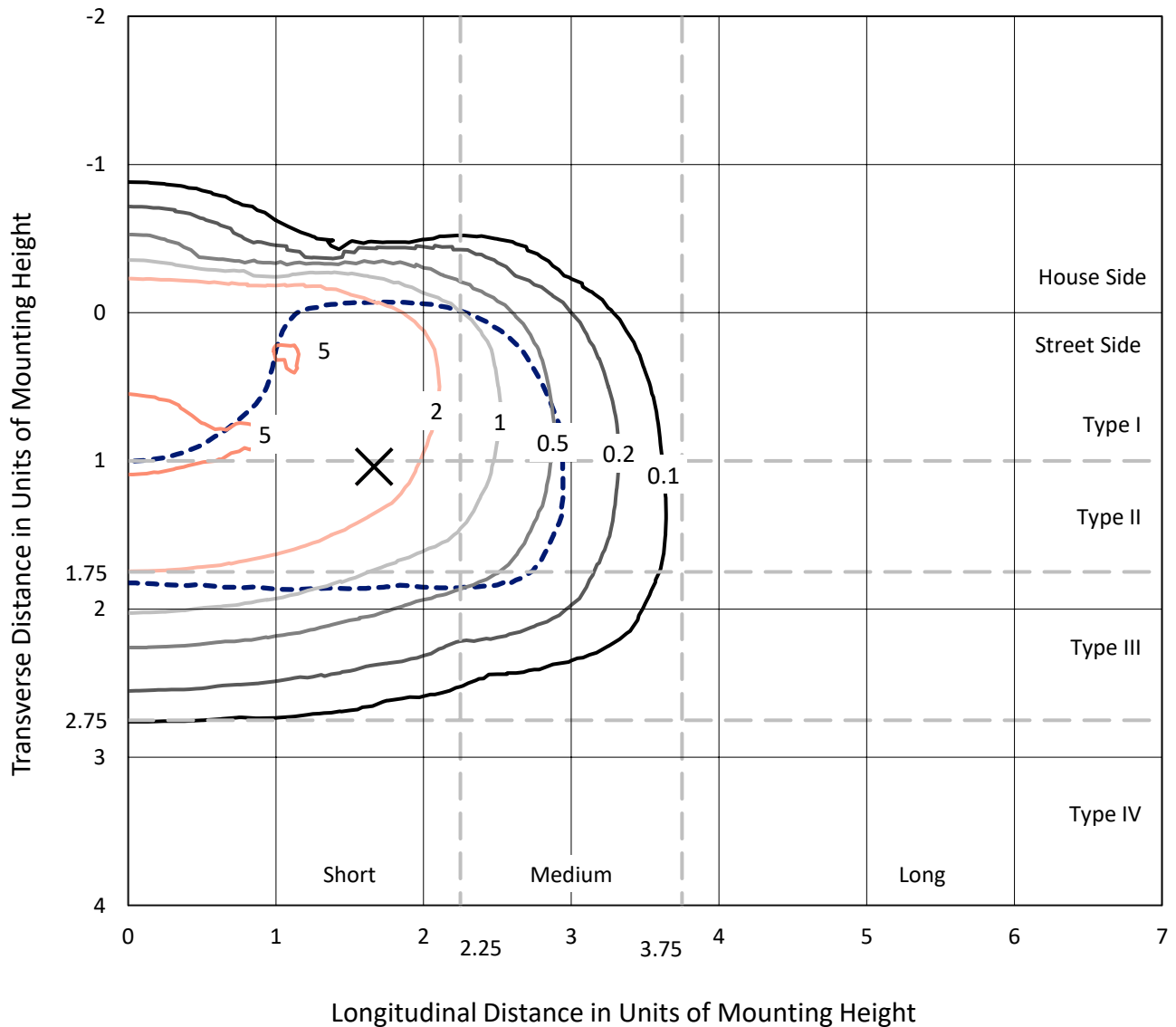
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

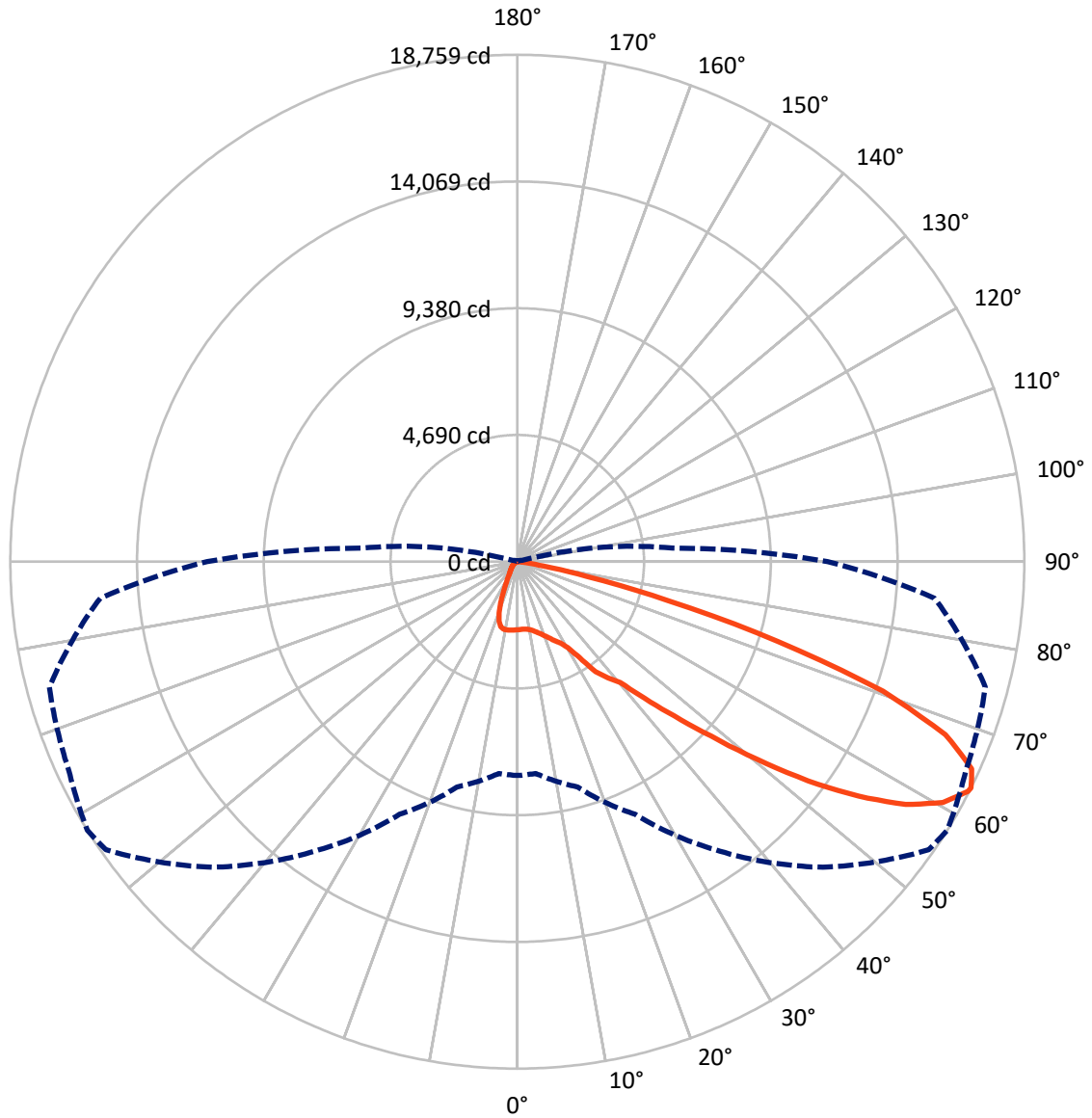
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2329.7	0.0	2329.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	20170.3	0.0	20170.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	22500.0	0.0	22500.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.8	1.0
10°-20°	642.3	2.9
20°-30°	1114.7	5.0
30°-40°	2048.3	9.1
40°-50°	3855.9	17.1
50°-60°	6595.3	29.3
60°-70°	6315.0	28.1
70°-80°	1610.3	7.2
80°-90°	82.3	0.4
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°	22500.0	100.0
0°-180°	22500.0	100.0



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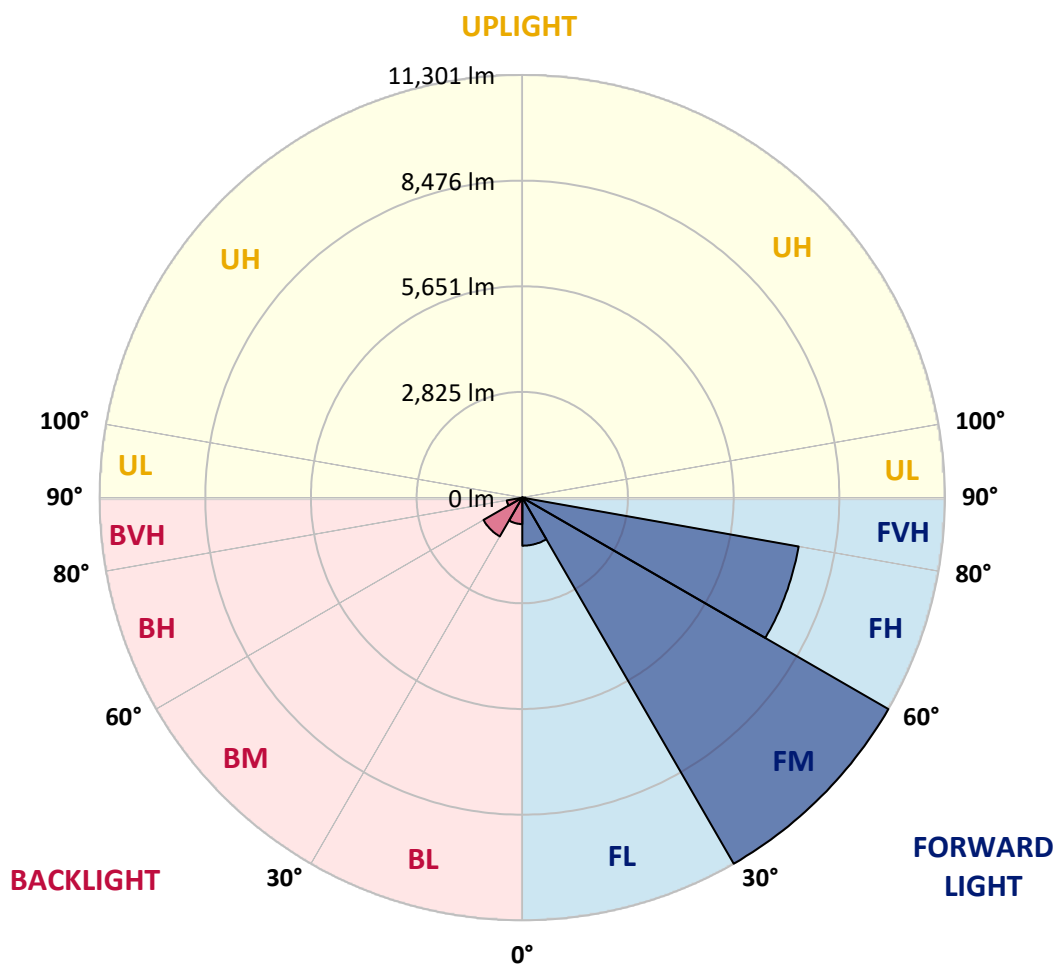
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1286.2	5.7			
FM	(30°-60°)	11301.3	50.2			
FH	(60°-80°)	7503.6	33.3			G4/12000
FVH	(80°-90°)	79.1	0.4			G1/100
BL	(0°-30°)	706.5	3.1	B2/1000		
BM	(30°-60°)	1198.3	5.3	B2/2500		
BH	(60°-80°)	421.7	1.9	B1/500		G1/500
BVH	(80°-90°)	3.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0
2.5°	2456.3	2464.8	2473.2	2476.6	2488.5	2500.3	2508.8	2507.1	2520.7	2527.4	2527.4
5°	2358.0	2358.0	2380.1	2400.4	2434.3	2468.1	2500.3	2507.1	2532.5	2556.2	2564.7
7.5°	2275.0	2280.1	2297.0	2334.3	2380.1	2439.3	2503.7	2519.0	2563.0	2615.5	2637.5
10°	2236.1	2239.5	2261.5	2300.4	2358.0	2439.3	2529.1	2557.9	2625.7	2708.7	2739.2
12.5°	2227.6	2232.7	2254.7	2298.7	2364.8	2463.1	2585.0	2615.5	2713.8	2820.5	2866.2
15°	2242.8	2246.2	2268.3	2315.7	2388.5	2505.4	2659.6	2701.9	2818.8	2942.5	3001.7
17.5°	2297.0	2293.7	2308.9	2347.9	2429.2	2557.9	2749.3	2800.2	2937.4	3106.8	3145.7
20°	2527.4	2505.4	2491.9	2458.0	2490.2	2632.5	2857.8	2932.3	3101.7	3274.5	3301.6
22.5°	3023.8	2974.6	2878.1	2746.0	2644.3	2734.1	2988.2	3074.6	3293.1	3462.5	3462.5
25°	3655.6	3593.0	3496.4	3208.4	2959.4	2901.8	3135.6	3244.0	3501.5	3672.6	3616.7
27.5°	4446.7	4397.6	4209.6	3874.2	3493.0	3194.9	3306.7	3406.6	3686.1	3892.8	3775.9
30°	5090.4	5066.7	4912.6	4612.7	4192.6	3757.3	3625.1	3691.2	3931.7	4170.6	4050.3
32.5°	5634.2	5634.2	5476.7	5197.2	4804.2	4417.9	4165.5	4213.0	4443.3	4719.5	4495.8
35°	6232.2	6211.9	6084.8	5818.9	5378.4	5037.9	4934.6	4999.0	5207.3	5412.3	4861.7
37.5°	6860.7	6853.9	6721.7	6464.3	6105.1	5676.6	5434.3	5451.3	5558.0	5683.3	5290.3
40°	7543.3	7553.5	7380.7	7221.5	6882.7	6443.9	5979.8	5873.1	5973.0	6327.0	6081.4
42.5°	8349.7	8326.0	8251.4	8034.6	7761.9	7499.3	6942.0	6903.0	6991.1	7370.5	7104.6
45°	9286.4	9320.3	9191.6	9071.3	8888.4	8669.8	8204.0	8136.2	8232.8	8822.3	8444.5
47.5°	10224.9	10192.7	10275.7	10253.7	10352.0	10189.3	9777.7	9638.8	9870.9	10429.9	9874.3
50°	10939.8	10975.4	11148.1	11400.5	11822.4	11913.8	11519.1	11471.7	11575.0	11934.2	11153.2
52.5°	11403.9	11522.5	11793.6	12442.4	13203.0	13794.2	13494.3	13468.9	13426.6	13523.1	12376.3
55°	11707.2	11827.4	12181.5	13136.9	14446.3	15406.8	15422.1	15313.7	15034.2	14964.7	13519.7
57.5°	11520.8	11544.5	12049.3	13326.6	15135.8	16557.1	17055.1	16946.7	16430.0	16167.4	14529.3
60°	10355.4	10404.5	11107.5	12608.4	14836.0	16933.1	18137.5	18088.4	17522.6	17226.2	15315.4
62.5°	8290.4	8432.7	9156.0	10829.7	13441.8	16299.6	18576.3	18715.2	18274.8	17866.5	15562.7
63°	7910.9	7865.2	8629.2	10311.3	13072.5	15986.2	18583.1	18759.2	18308.6	17927.5	15494.9
65°	5856.1	5993.3	6489.7	8131.1	10878.8	14527.7	18164.6	18476.3	18183.3	17658.1	14744.5
67.5°	3288.0	3281.3	3830.1	5320.8	7614.5	11395.5	16424.9	17083.9	17022.9	15845.6	12222.1
70°	1609.3	1634.7	1860.0	2757.8	4416.2	7861.8	13648.5	14359.9	14382.0	12445.7	8451.3
72.5°	728.4	740.3	901.2	1343.3	2269.9	4185.8	9405.0	10084.3	9959.0	7931.3	4666.9
75°	384.5	409.9	496.3	675.9	1094.3	1726.2	5115.8	5773.1	5510.5	3623.4	1717.7
77.5°	284.6	293.1	337.1	430.3	586.1	672.5	2207.3	2625.7	2459.7	1311.1	569.2
80°	208.4	215.1	250.7	304.9	369.3	342.2	831.7	953.7	855.5	445.5	174.5
82.5°	127.0	128.7	183.0	227.0	232.1	191.4	274.4	294.8	308.3	250.7	94.9
85°	45.7	57.6	123.7	164.3	137.2	96.6	115.2	127.0	138.9	159.2	55.9
87.5°	5.1	6.8	59.3	79.6	39.0	35.6	42.3	47.4	50.8	59.3	27.1
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°	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0
2.5°	2534.2	2541.0	2535.9	2527.4	2525.7	2520.7	2510.5	2510.5	2510.5	2513.9	2510.5
5°	2571.5	2576.6	2564.7	2547.8	2529.1	2505.4	2480.0	2464.8	2463.1	2459.7	2451.2
7.5°	2642.6	2649.4	2622.3	2581.6	2530.8	2473.2	2419.0	2368.2	2344.5	2325.8	2325.8
10°	2746.0	2752.7	2698.5	2625.7	2524.0	2407.2	2278.4	2161.5	2070.1	2027.7	2017.5
12.5°	2869.6	2873.0	2783.2	2656.2	2488.5	2263.2	1988.7	1733.0	1555.1	1473.8	1465.3
15°	3005.1	2981.4	2862.8	2668.0	2386.8	1966.7	1492.4	1179.0	994.4	940.2	960.5
17.5°	3142.4	3098.3	2923.8	2649.4	2158.1	1492.4	1002.8	804.6	747.0	731.8	731.8
20°	3271.1	3210.1	2967.9	2568.1	1761.7	1028.3	743.7	696.2	686.1	675.9	677.6
22.5°	3399.8	3306.7	3006.8	2386.8	1312.8	735.2	665.7	650.5	636.9	623.4	621.7
25°	3525.2	3396.4	3022.1	2051.4	894.4	631.9	608.1	587.8	560.7	545.5	542.1
27.5°	3655.6	3504.9	3011.9	1627.9	652.2	565.8	542.1	513.3	481.1	454.0	454.0
30°	3906.3	3711.5	2976.3	1170.5	548.9	498.0	467.5	421.8	386.2	359.1	357.4
32.5°	4248.5	3980.9	2854.4	823.3	487.9	438.7	393.0	342.2	304.9	284.6	284.6
35°	4553.4	4251.9	2625.7	606.4	438.7	381.1	325.2	276.1	247.3	233.8	228.7
37.5°	5017.6	4648.3	2310.6	493.0	391.3	330.3	272.7	227.0	203.3	193.1	193.1
40°	5713.8	5132.8	1924.4	432.0	345.6	281.2	227.0	191.4	172.8	160.9	160.9
42.5°	6577.8	5725.7	1533.1	387.9	303.2	242.2	189.7	162.6	145.7	137.2	135.5
45°	7665.3	6350.8	1180.7	347.3	269.3	206.7	160.9	137.2	120.3	115.2	116.9
47.5°	8800.3	6901.3	914.8	311.7	233.8	174.5	137.2	118.6	106.7	99.9	99.9
50°	9769.2	7280.8	694.5	271.0	206.7	147.4	120.3	106.7	96.6	93.2	91.5
52.5°	10579.0	7390.9	531.9	235.5	181.3	127.0	106.7	96.6	88.1	83.0	83.0
55°	11268.4	7294.3	416.7	198.2	152.5	110.1	94.9	86.4	76.2	71.1	69.5
57.5°	11671.6	6984.3	318.5	164.3	123.7	91.5	83.0	72.8	61.0	52.5	52.5
60°	11874.9	6533.7	243.9	135.5	94.9	72.8	67.8	54.2	42.3	35.6	33.9
62.5°	11630.9	5935.7	184.6	106.7	71.1	54.2	45.7	39.0	27.1	20.3	20.3
63°	11480.2	5763.0	177.9	101.6	66.1	50.8	42.3	35.6	23.7	18.6	16.9
65°	10465.5	5009.1	145.7	81.3	52.5	35.6	28.8	25.4	16.9	8.5	6.8
67.5°	8310.7	3831.8	115.2	61.0	37.3	25.4	16.9	15.2	5.1	0.0	0.0
70°	5619.0	2474.9	89.8	44.0	25.4	15.2	8.5	6.8	1.7	0.0	0.0
72.5°	2930.6	1268.8	69.5	32.2	15.2	10.2	5.1	1.7	0.0	0.0	0.0
75°	1036.7	432.0	50.8	20.3	10.2	5.1	1.7	0.0	0.0	0.0	0.0
77.5°	313.4	160.9	32.2	15.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0
80°	110.1	59.3	18.6	10.2	5.1	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	54.2	28.8	11.9	8.5	5.1	1.7	0.0	0.0	0.0	0.0	0.0
85°	30.5	18.6	10.2	8.5	5.1	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	22.0	13.6	10.2	8.5	6.8	3.4	1.7	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)