

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: P455464

Luminaire Tested: **GALN-SA6C-827-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22068 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

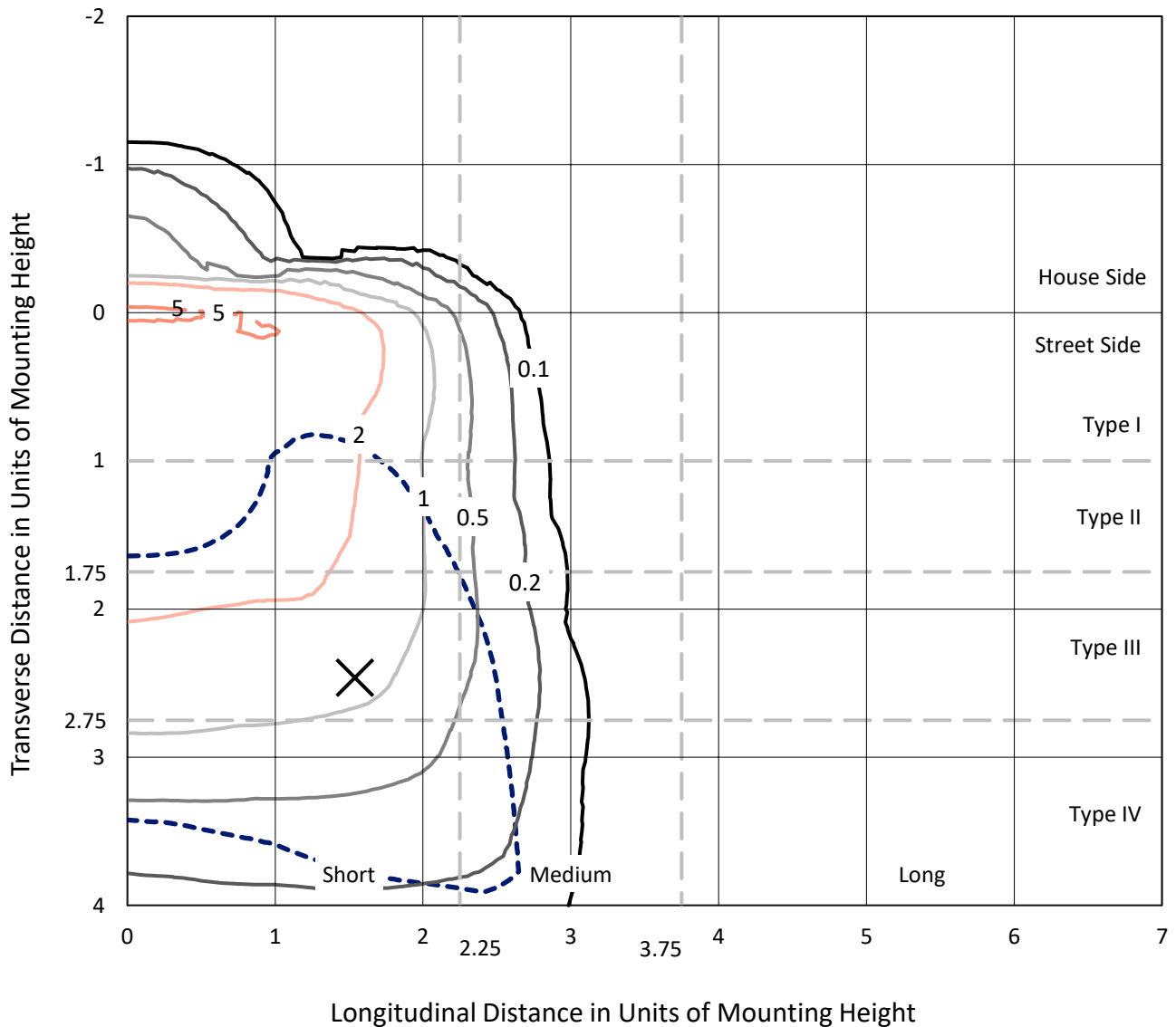
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

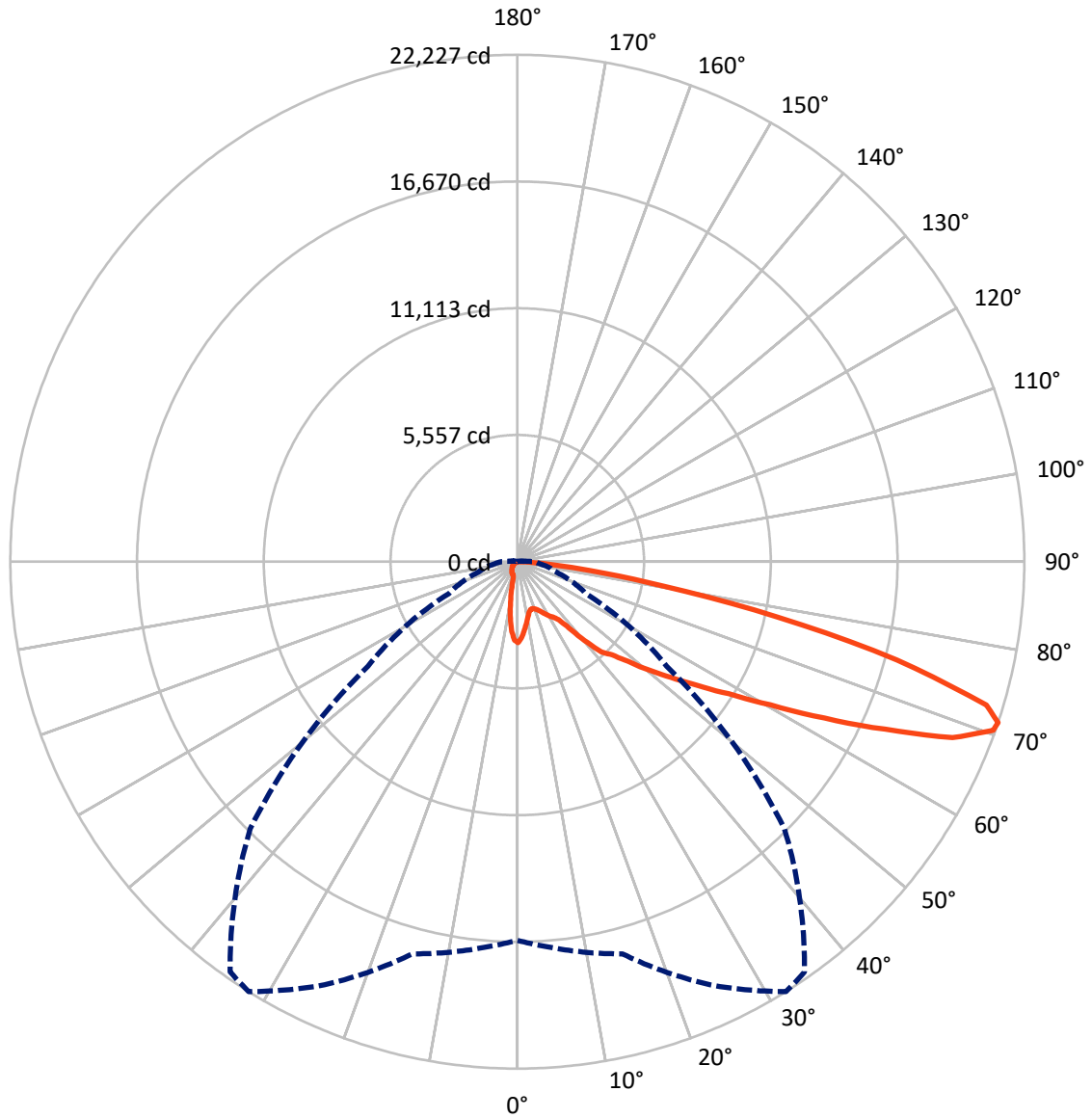
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1848.4	0.0	1848.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	20219.6	0.0	20219.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	22068.0	0.0	22068.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.6	1.3
10°-20°	626.3	2.8
20°-30°	974.3	4.4
30°-40°	1623.2	7.4
40°-50°	3019.4	13.7
50°-60°	4847.8	22.0
60°-70°	6520.6	29.5
70°-80°	3868.7	17.5
80°-90°	299.0	1.4
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°	22068.0	100.0
0°-180°	22068.0	100.0

Coefficient of Utilization



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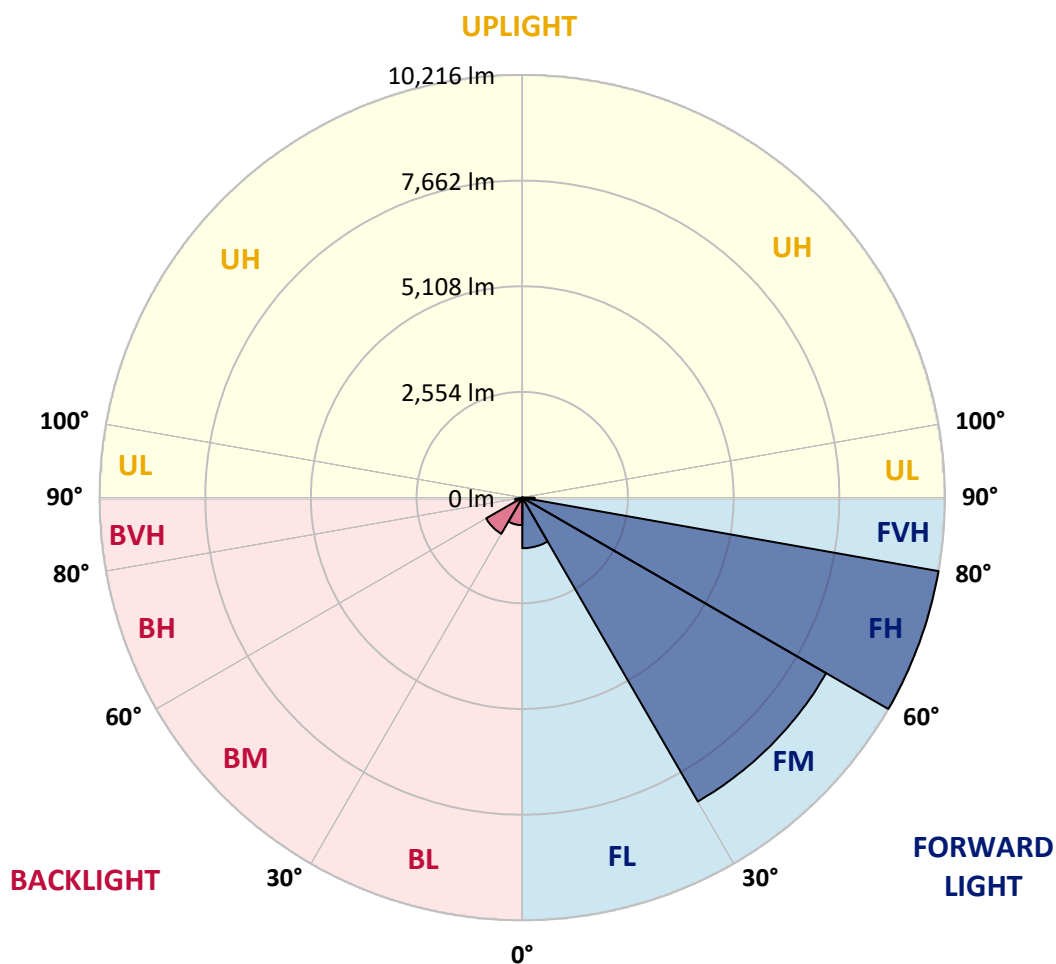
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1223.2	5.5			
FM	(30°-60°)	8482.1	38.4			
FH	(60°-80°)	10216.4	46.3			G4/12000
FVH	(80°-90°)	297.9	1.3			G3/500
BL	(0°-30°)	666.0	3.0	B2/1000		
BM	(30°-60°)	1008.4	4.6	B2/2500		
BH	(60°-80°)	172.9	0.8	B1/500		G1/500
BVH	(80°-90°)	1.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9
2.5°	3291.4	3325.3	3320.2	3332.1	3360.8	3372.7	3404.9	3440.5	3489.6	3523.5	3545.5
5°	2947.5	2972.9	2976.3	3035.6	3064.4	3096.6	3191.5	3294.8	3410.0	3501.4	3562.4
7.5°	2579.9	2593.5	2620.6	2698.5	2771.3	2803.5	2947.5	3127.1	3308.3	3479.4	3589.5
10°	2276.7	2291.9	2341.1	2424.1	2491.8	2534.2	2734.1	2959.4	3213.5	3467.6	3628.5
12.5°	2103.9	2112.4	2131.0	2205.6	2291.9	2337.7	2552.8	2810.3	3137.2	3472.7	3694.6
15°	2092.1	2088.7	2066.7	2097.1	2175.1	2222.5	2432.5	2708.7	3069.5	3489.6	3772.5
17.5°	2154.7	2146.3	2093.8	2093.8	2158.1	2197.1	2381.7	2654.5	3035.6	3528.6	3882.6
20°	2251.3	2237.7	2151.3	2144.6	2207.3	2247.9	2412.2	2657.8	3042.4	3601.4	4030.0
22.5°	2373.3	2358.0	2227.6	2231.0	2298.7	2339.4	2500.3	2718.8	3084.7	3691.2	4187.5
25°	2532.5	2515.6	2361.4	2354.6	2425.8	2461.3	2630.7	2827.2	3144.0	3803.0	4394.2
27.5°	2744.2	2708.7	2524.0	2513.9	2590.1	2635.8	2788.3	2972.9	3249.0	3957.1	4672.0
30°	2918.7	2879.8	2703.6	2676.5	2757.8	2793.4	2950.9	3169.4	3455.7	4226.5	5056.5
32.5°	3147.4	3089.8	2883.1	2812.0	2898.4	2944.1	3186.4	3535.3	3762.3	4511.1	5513.9
35°	3662.4	3626.8	3374.4	3125.4	3120.3	3177.9	3533.6	3904.6	4077.4	4954.9	6137.3
37.5°	4399.3	4373.8	4106.2	3772.5	3675.9	3648.8	3955.4	4311.2	4580.5	5564.7	6862.3
40°	5254.7	5195.4	4949.8	4666.9	4541.5	4461.9	4453.5	4915.9	5237.8	6393.1	7617.8
42.5°	5867.9	5759.5	5461.4	5441.0	5413.9	5330.9	5090.4	5800.2	6086.5	7284.1	8425.8
45°	6511.6	6347.3	5903.5	5827.3	5817.1	5812.0	6052.6	6847.0	7011.4	8249.7	9255.9
47.5°	7011.4	6880.9	6516.7	6482.8	6525.2	6640.4	7324.8	7958.3	7924.4	9110.2	9952.1
50°	7677.1	7578.8	7174.0	7238.4	7456.9	7644.9	8759.5	9169.5	8674.8	9787.8	10458.6
52.5°	8463.1	8281.8	7905.8	8080.3	8415.7	8729.1	10282.4	10229.9	9201.7	10297.7	10836.4
55°	9144.1	9015.3	8886.6	9067.9	9569.3	9960.6	11657.9	11024.4	9584.5	10707.6	11002.4
57.5°	10296.0	10265.5	10133.4	10318.0	10926.1	11332.7	12889.5	11641.0	9830.1	10921.1	10807.6
60°	12000.1	11951.0	11705.4	11940.8	12733.6	13372.2	14024.4	12194.9	9886.0	10838.1	10246.9
62.5°	14049.8	13882.1	13672.1	14019.3	15106.9	15388.1	15093.3	12523.6	9677.7	10177.4	8895.1
65°	15964.0	15791.2	15796.3	16528.1	17712.2	17903.6	16340.1	12474.4	9067.9	8522.4	6560.8
67.5°	17429.3	17400.5	17607.2	19035.2	20583.5	20451.4	17454.7	11739.3	7260.4	5524.1	3486.2
70°	17503.9	17559.8	18152.6	20563.2	22135.2	21925.1	17359.9	9542.2	4526.3	2541.0	1373.8
71°	16602.7	16978.7	17798.6	20515.7	22226.7	21953.9	16560.3	7992.2	3320.2	1771.9	991.0
72.5°	14148.1	14346.3	16118.2	19307.9	21503.3	20920.6	14532.6	5602.0	2125.9	1084.1	569.2
75°	7792.3	8280.2	10794.0	15147.5	17198.9	16687.4	9471.0	2661.2	1060.4	592.9	235.5
77.5°	3709.8	3614.9	5266.6	9008.6	11661.3	11634.2	4771.9	1182.4	618.3	401.5	118.6
80°	1060.4	1192.6	2015.8	4282.4	6474.4	6545.5	1832.9	570.9	428.6	313.4	61.0
82.5°	320.2	326.9	740.3	1893.9	3220.2	3035.6	687.8	291.4	308.3	249.0	35.6
85°	55.9	69.5	218.5	667.4	1228.1	931.7	172.8	138.9	203.3	164.3	20.3
87.5°	3.4	5.1	72.8	76.2	108.4	62.7	30.5	20.3	44.0	44.0	11.9
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°	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9
2.5°	3560.7	3570.9	3564.1	3548.9	3523.5	3493.0	3452.3	3418.4	3389.6	3374.4	3393.0
5°	3582.8	3596.3	3562.4	3486.2	3371.0	3245.7	3103.4	2993.3	2906.9	2879.8	2869.6
7.5°	3616.6	3625.1	3533.6	3364.2	3120.3	2823.9	2564.7	2346.2	2176.8	2125.9	2051.4
10°	3660.7	3655.6	3482.8	3167.7	2739.2	2293.6	1892.2	1594.0	1368.7	1287.4	1280.6
12.5°	3728.4	3701.3	3418.4	2900.1	2285.2	1702.4	1206.1	943.5	801.3	753.8	743.7
15°	3813.1	3748.8	3316.8	2586.7	1749.9	1099.4	743.7	664.0	645.4	642.0	638.6
17.5°	3913.1	3811.4	3183.0	2202.2	1229.8	713.2	621.7	620.0	621.7	618.3	616.6
20°	4048.6	3877.5	3023.7	1746.5	813.1	601.4	592.9	592.9	594.6	592.9	592.9
22.5°	4192.6	3955.4	2827.2	1333.2	613.2	570.9	569.2	572.6	576.0	574.3	574.3
25°	4370.5	4057.1	2568.1	913.1	548.8	545.5	547.2	553.9	560.7	562.4	560.7
27.5°	4627.9	4182.4	2290.3	628.5	503.1	506.5	523.4	540.4	550.5	552.2	552.2
30°	4917.6	4321.3	1927.7	509.9	465.8	465.8	486.2	518.4	540.4	543.8	545.5
32.5°	5290.3	4482.3	1526.3	459.1	430.3	426.9	445.5	484.5	525.1	537.0	537.0
35°	5751.0	4672.0	1135.0	426.9	404.9	396.4	406.6	438.7	491.3	525.1	528.5
37.5°	6291.4	4851.5	830.0	398.1	381.1	369.3	376.1	401.5	443.8	494.6	508.2
40°	6791.1	5010.8	620.0	374.4	357.4	349.0	354.0	365.9	401.5	448.9	457.4
42.5°	7336.6	5134.4	492.9	349.0	333.7	330.3	330.3	335.4	359.1	386.2	387.9
45°	7880.4	5178.5	413.3	318.5	308.3	311.7	310.0	306.6	316.8	313.4	313.4
47.5°	8268.3	5126.0	342.2	289.7	289.7	294.8	286.3	274.4	269.3	249.0	250.7
50°	8534.2	4934.6	281.2	255.8	269.3	276.1	259.2	240.5	221.9	199.9	194.8
52.5°	8644.4	4594.1	230.4	211.7	238.9	247.3	227.0	205.0	176.2	157.5	152.5
55°	8573.2	4174.0	191.4	172.8	201.6	211.7	191.4	166.0	133.8	113.5	110.1
57.5°	8259.8	3672.5	162.6	137.2	160.9	167.7	154.2	127.0	94.9	74.5	74.5
60°	7717.8	3154.2	132.1	108.4	120.3	130.4	116.9	91.5	64.4	45.7	42.3
62.5°	6618.4	2561.3	106.7	84.7	84.7	93.2	81.3	66.1	40.7	23.7	22.0
65°	4778.7	1756.7	84.7	62.7	61.0	61.0	50.8	44.0	23.7	10.2	6.8
67.5°	2596.9	991.0	67.8	47.4	42.3	40.7	32.2	25.4	10.2	1.7	0.0
70°	1021.5	381.1	52.5	32.2	27.1	25.4	16.9	11.9	6.8	0.0	0.0
71°	692.8	262.6	45.7	27.1	22.0	18.6	13.6	10.2	5.1	0.0	0.0
72.5°	396.4	162.6	35.6	20.3	16.9	13.6	10.2	6.8	5.1	0.0	0.0
75°	172.8	83.0	22.0	15.2	11.9	8.5	6.8	5.1	1.7	0.0	0.0
77.5°	88.1	45.7	15.2	11.9	6.8	5.1	3.4	1.7	0.0	0.0	0.0
80°	49.1	23.7	10.2	6.8	5.1	3.4	1.7	1.7	0.0	0.0	0.0
82.5°	27.1	13.6	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.9	8.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	3.4	0.0	0.0	0.0	0.0	1.7	1.7	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)