

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: P456711

Luminaire Tested: **GALN-SA8A-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456711
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-SA8A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 22239 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

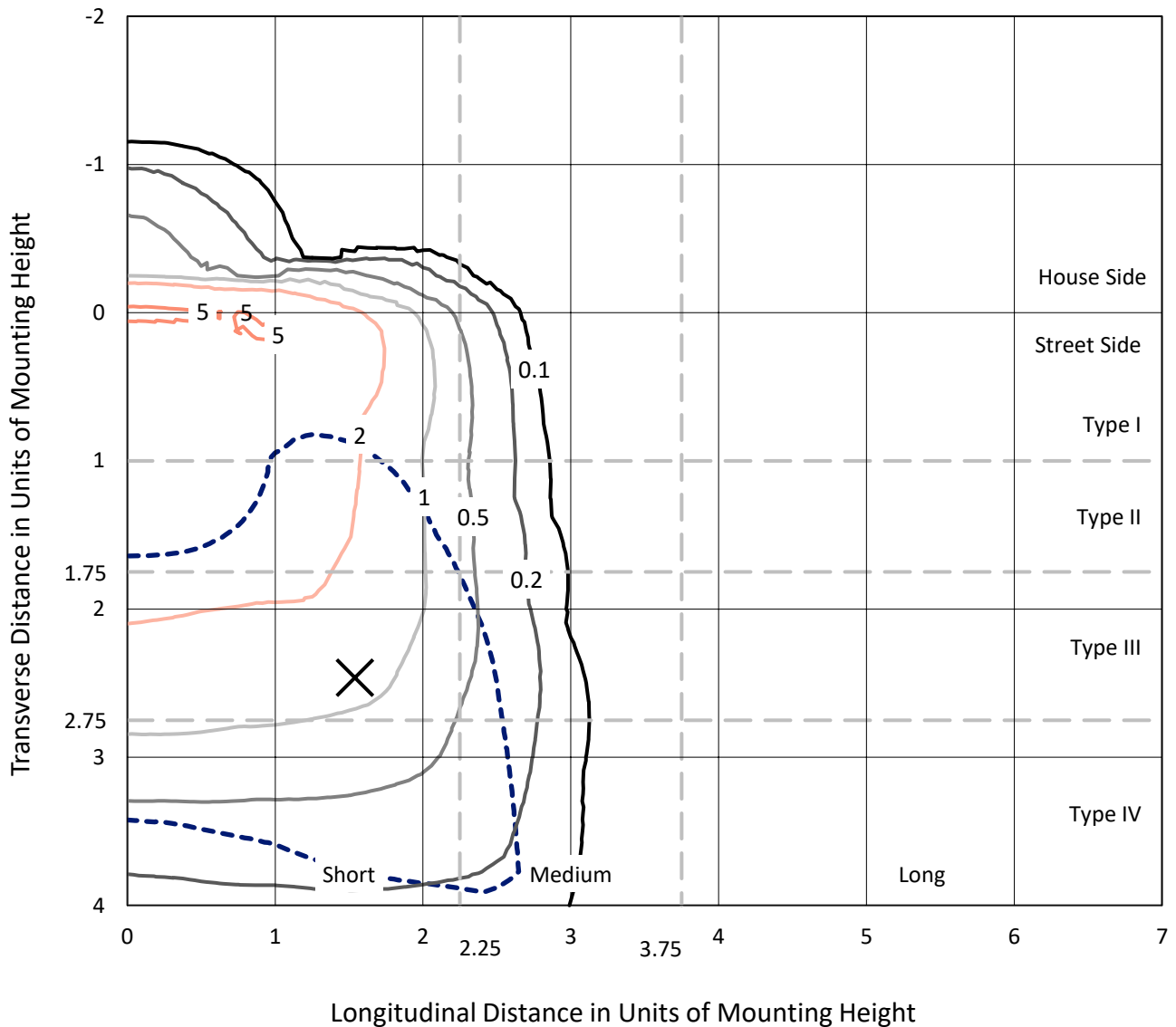
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

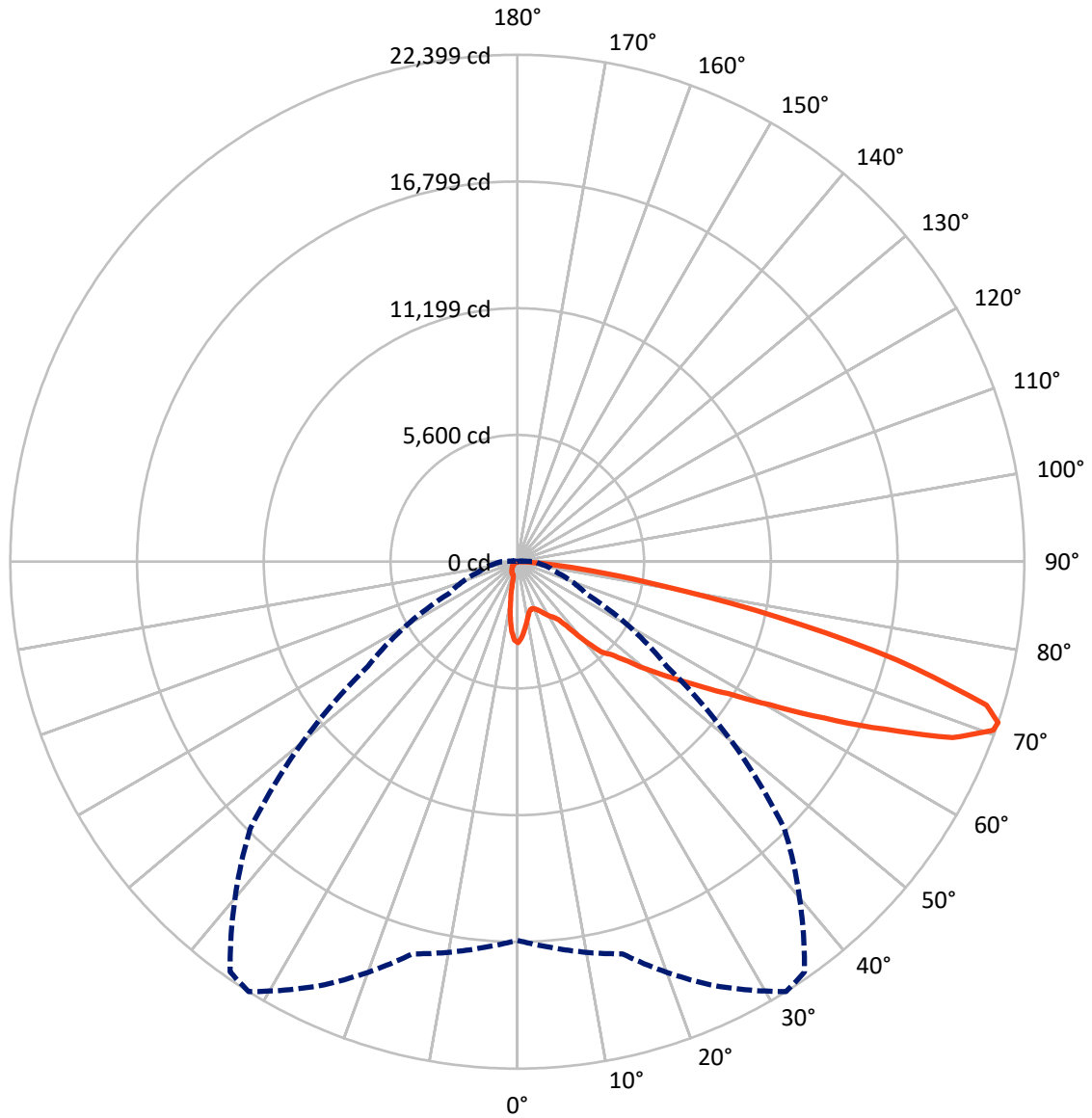
× Max cd
 - - - 1/2 Max cd



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	1862.8	0.0	1862.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	20376.2	0.0	20376.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	22239.0	0.0	22239.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.8	1.3
10°-20°	631.2	2.8
20°-30°	981.9	4.4
30°-40°	1635.8	7.4
40°-50°	3042.8	13.7
50°-60°	4885.4	22.0
60°-70°	6571.1	29.5
70°-80°	3898.7	17.5
80°-90°	301.4	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°	22239.0	100.0
0°-180°	22239.0	100.0



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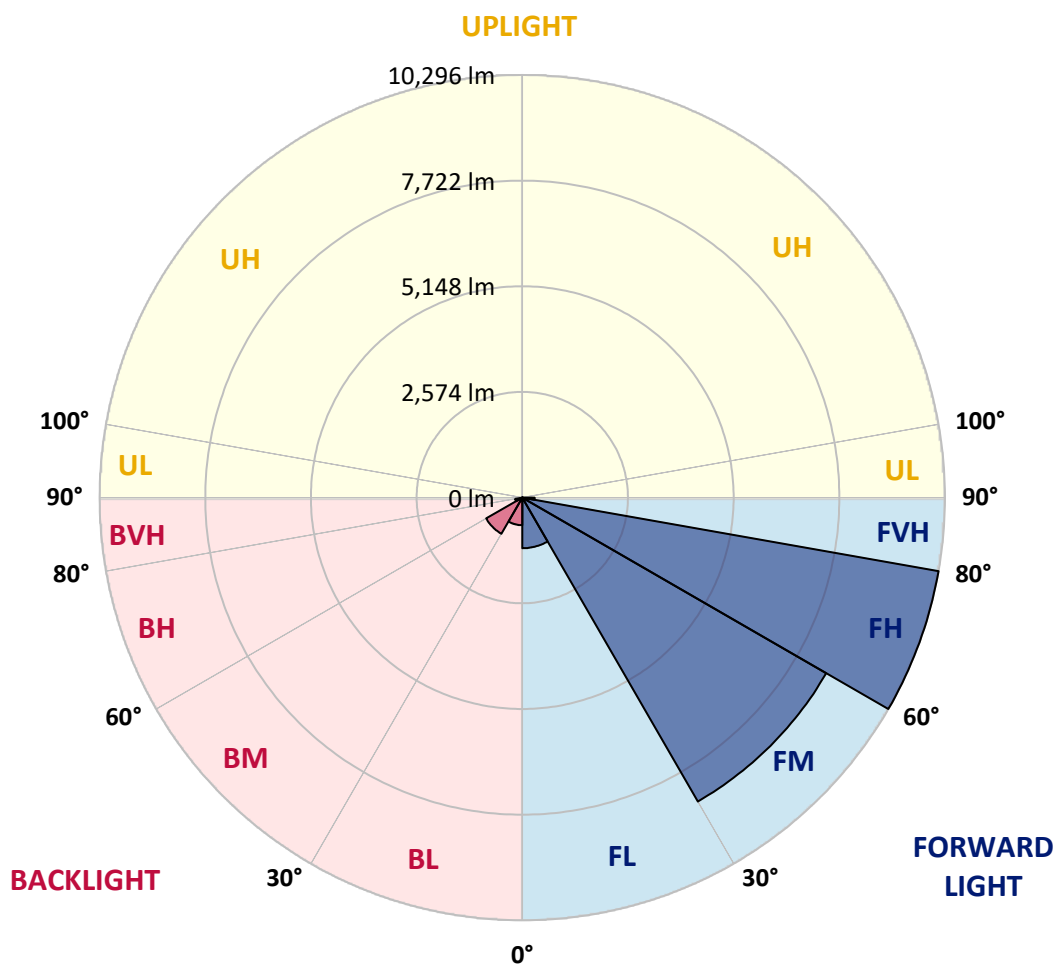
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1232.6	5.5			
FM	(30°-60°)	8547.8	38.4			
FH	(60°-80°)	10295.6	46.3			G4/12000
FVH	(80°-90°)	300.2	1.3			G3/500
BL	(0°-30°)	671.2	3.0	B2/1000		
BM	(30°-60°)	1016.2	4.6	B2/2500		
BH	(60°-80°)	174.2	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°	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4
2.5°	3316.9	3351.0	3345.9	3357.9	3386.9	3398.8	3431.3	3467.1	3516.6	3550.8	3573.0
5°	2970.4	2996.0	2999.4	3059.1	3088.1	3120.6	3216.2	3320.3	3436.4	3528.6	3590.0
7.5°	2599.9	2613.6	2640.9	2719.4	2792.8	2825.3	2970.4	3151.3	3334.0	3506.4	3617.3
10°	2294.3	2309.7	2359.2	2442.9	2511.1	2553.8	2755.3	2982.3	3238.4	3494.4	3656.6
12.5°	2120.2	2128.8	2147.5	2222.6	2309.7	2355.8	2572.6	2832.1	3161.6	3499.6	3723.2
15°	2108.3	2104.9	2082.7	2113.4	2191.9	2239.7	2451.4	2729.7	3093.3	3516.6	3801.7
17.5°	2171.4	2162.9	2110.0	2110.0	2174.8	2214.1	2400.2	2675.0	3059.1	3555.9	3912.7
20°	2268.7	2255.1	2168.0	2161.2	2224.4	2265.3	2430.9	2678.4	3066.0	3629.3	4061.2
22.5°	2391.6	2376.3	2244.8	2248.3	2316.5	2357.5	2519.7	2739.9	3108.6	3719.8	4220.0
25°	2552.1	2535.0	2379.7	2372.9	2444.6	2480.4	2651.1	2849.2	3168.4	3832.4	4428.2
27.5°	2765.5	2729.7	2543.6	2533.3	2610.2	2656.3	2809.9	2996.0	3274.2	3987.8	4708.2
30°	2941.3	2902.1	2724.5	2697.2	2779.2	2815.0	2973.8	3194.0	3482.5	4259.2	5095.7
32.5°	3171.8	3113.8	2905.5	2833.8	2920.9	2966.9	3211.1	3562.7	3791.5	4546.0	5556.6
35°	3690.8	3654.9	3400.5	3149.6	3144.5	3202.5	3561.0	3934.9	4109.0	4993.3	6184.8
37.5°	4433.3	4407.7	4138.0	3801.7	3704.4	3677.1	3986.1	4344.6	4616.0	5607.8	6915.5
40°	5295.4	5235.7	4988.2	4703.1	4576.7	4496.5	4488.0	4954.0	5278.4	6442.6	7676.8
42.5°	5913.4	5804.1	5503.7	5483.2	5455.9	5372.2	5129.8	5845.1	6133.6	7340.5	8491.1
45°	6562.1	6396.5	5949.3	5872.4	5862.2	5857.1	6099.5	6900.1	7065.7	8313.6	9327.6
47.5°	7065.7	6934.2	6567.2	6533.1	6575.8	6691.8	7381.5	8020.0	7985.8	9180.8	10029.2
50°	7736.6	7637.6	7229.6	7294.4	7514.7	7704.2	8827.4	9240.5	8742.1	9863.6	10539.6
52.5°	8528.7	8346.0	7967.0	8142.9	8480.9	8796.7	10362.1	10309.2	9273.0	10377.5	10920.3
55°	9214.9	9085.2	8955.5	9138.1	9643.4	10037.8	11748.3	11109.8	9658.8	10790.6	11087.6
57.5°	10375.8	10345.0	10211.9	10398.0	11010.8	11420.5	12989.3	11731.2	9906.3	11005.7	10891.3
60°	12093.1	12043.6	11796.1	12033.4	12832.3	13475.9	14133.1	12289.4	9962.6	10922.0	10326.3
62.5°	14158.7	13989.7	13778.0	14128.0	15223.9	15507.3	15210.3	12620.6	9752.7	10256.3	8964.0
65°	16087.7	15913.6	15918.7	16656.2	17849.5	18042.4	16466.7	12571.1	9138.1	8588.4	6611.6
67.5°	17564.4	17535.4	17743.6	19182.7	20743.0	20609.8	17590.0	11830.2	7316.6	5566.9	3513.2
70°	17639.5	17695.8	18293.3	20722.5	22306.7	22095.0	17494.4	9616.1	4561.4	2560.7	1384.5
71°	16731.3	17110.3	17936.5	20674.7	22398.9	22124.0	16688.6	8054.1	3345.9	1785.6	998.7
72.5°	14257.7	14457.4	16243.1	19457.5	21670.0	21082.7	14645.2	5645.4	2142.4	1092.5	573.6
75°	7852.7	8344.3	10877.7	15264.9	17332.2	16816.7	9544.4	2681.9	1068.6	597.5	237.3
77.5°	3738.6	3643.0	5307.4	9078.4	11751.7	11724.4	4808.9	1191.6	623.1	404.6	119.5
80°	1068.6	1201.8	2031.5	4315.6	6524.5	6596.2	1847.1	575.3	431.9	315.8	61.5
82.5°	322.6	329.5	746.0	1908.5	3245.2	3059.1	693.1	293.6	310.7	250.9	35.8
85°	56.3	70.0	220.2	672.6	1237.6	938.9	174.1	140.0	204.9	165.6	20.5
87.5°	3.4	5.1	73.4	76.8	109.3	63.2	30.7	20.5	44.4	44.4	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°	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4
2.5°	3588.3	3598.6	3591.7	3576.4	3550.8	3520.0	3479.1	3444.9	3415.9	3400.5	3419.3
5°	3610.5	3624.2	3590.0	3513.2	3397.1	3270.8	3127.4	3016.4	2929.4	2902.1	2891.8
7.5°	3644.7	3653.2	3561.0	3390.3	3144.5	2845.7	2584.6	2364.3	2193.6	2142.4	2067.3
10°	3689.0	3683.9	3509.8	3192.3	2760.4	2311.4	1906.8	1606.4	1379.3	1297.4	1290.6
12.5°	3757.3	3730.0	3444.9	2922.6	2302.9	1715.6	1215.5	950.9	807.5	759.7	749.4
15°	3842.7	3777.8	3342.5	2606.7	1763.4	1107.9	749.4	669.2	650.4	647.0	643.6
17.5°	3943.4	3841.0	3207.6	2219.2	1239.4	718.7	626.5	624.8	626.5	623.1	621.4
20°	4080.0	3907.6	3047.2	1760.0	819.4	606.0	597.5	597.5	599.2	597.5	597.5
22.5°	4225.1	3986.1	2849.2	1343.5	618.0	575.3	573.6	577.0	580.4	578.7	578.7
25°	4404.3	4088.5	2588.0	920.1	553.1	549.7	551.4	558.2	565.1	566.8	565.1
27.5°	4663.8	4214.8	2308.0	633.3	507.0	510.4	527.5	544.6	554.8	556.5	556.5
30°	4955.7	4354.8	1942.7	513.8	469.5	469.5	489.9	522.4	544.6	548.0	549.7
32.5°	5331.3	4517.0	1538.1	462.6	433.6	430.2	449.0	488.2	529.2	541.2	541.2
35°	5795.6	4708.2	1143.8	430.2	408.0	399.5	409.7	442.1	495.1	529.2	532.6
37.5°	6340.2	4889.1	836.5	401.2	384.1	372.1	379.0	404.6	447.3	498.5	512.1
40°	6843.8	5049.6	624.8	377.3	360.2	351.7	356.8	368.7	404.6	452.4	460.9
42.5°	7393.5	5174.2	496.8	351.7	336.3	332.9	332.9	338.0	361.9	389.2	390.9
45°	7941.4	5218.6	416.5	320.9	310.7	314.1	312.4	309.0	319.2	315.8	315.8
47.5°	8332.4	5165.7	344.8	291.9	291.9	297.0	288.5	276.6	271.4	250.9	252.7
50°	8600.4	4972.8	283.4	257.8	271.4	278.3	261.2	242.4	223.6	201.4	196.3
52.5°	8711.3	4629.7	232.2	213.4	240.7	249.2	228.8	206.6	177.5	158.8	153.6
55°	8639.6	4206.3	192.9	174.1	203.1	213.4	192.9	167.3	134.9	114.4	111.0
57.5°	8323.8	3701.0	163.9	138.3	162.2	169.0	155.3	128.0	95.6	75.1	75.1
60°	7777.6	3178.6	133.2	109.3	121.2	131.4	117.8	92.2	64.9	46.1	42.7
62.5°	6669.6	2581.1	107.5	85.4	85.4	93.9	81.9	66.6	41.0	23.9	22.2
65°	4815.7	1770.3	85.4	63.2	61.5	61.5	51.2	44.4	23.9	10.2	6.8
67.5°	2617.0	998.7	68.3	47.8	42.7	41.0	32.4	25.6	10.2	1.7	0.0
70°	1029.4	384.1	52.9	32.4	27.3	25.6	17.1	11.9	6.8	0.0	0.0
71°	698.2	264.6	46.1	27.3	22.2	18.8	13.7	10.2	5.1	0.0	0.0
72.5°	399.5	163.9	35.8	20.5	17.1	13.7	10.2	6.8	5.1	0.0	0.0
75°	174.1	83.6	22.2	15.4	11.9	8.5	6.8	5.1	1.7	0.0	0.0
77.5°	88.8	46.1	15.4	11.9	6.8	5.1	3.4	1.7	0.0	0.0	0.0
80°	49.5	23.9	10.2	6.8	5.1	3.4	1.7	1.7	0.0	0.0	0.0
82.5°	27.3	13.7	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.1	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)