

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: P647469

Luminaire Tested: **GALN-SA5D-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647469
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-SA5D-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA 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: 21843.3 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

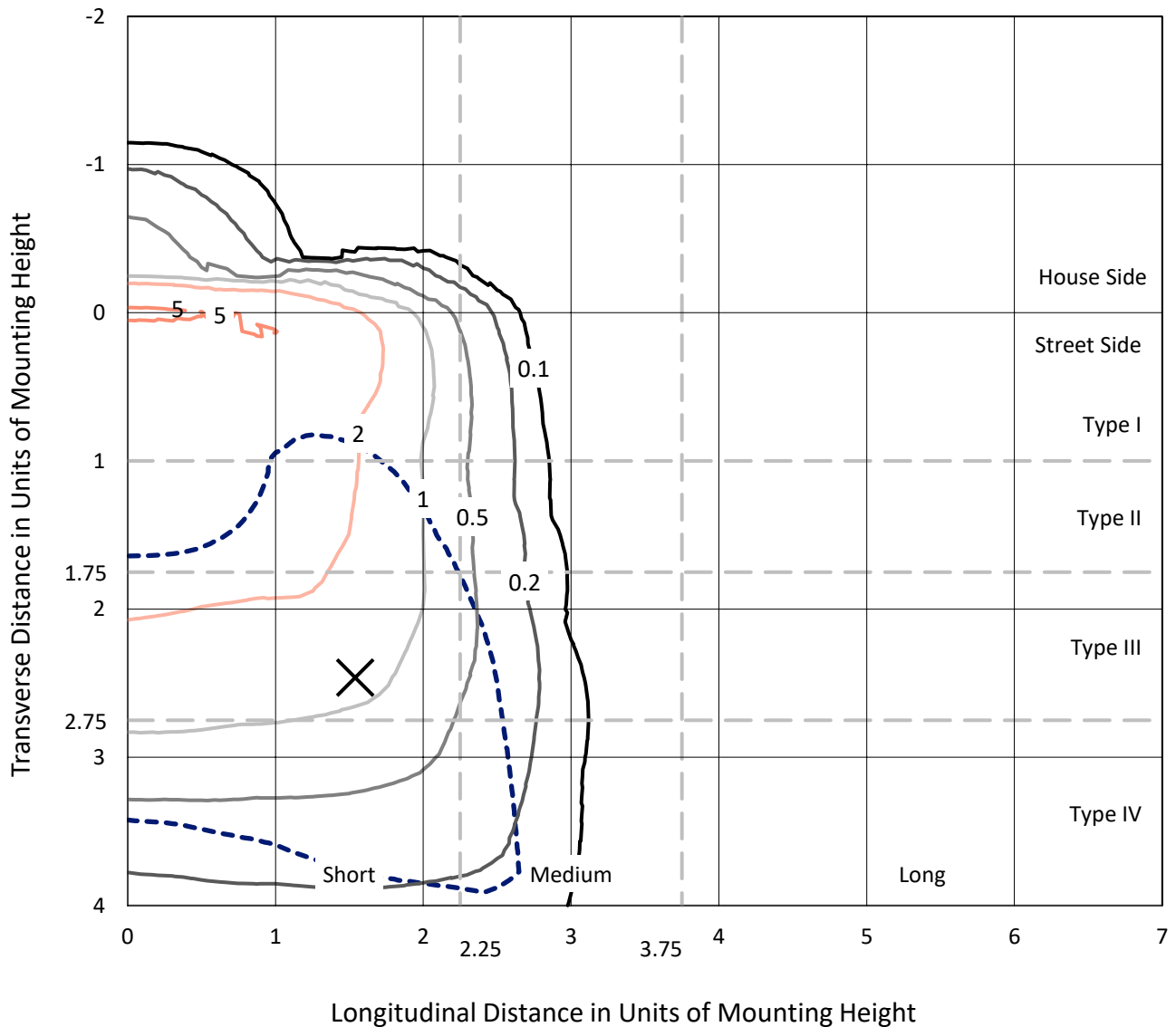
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

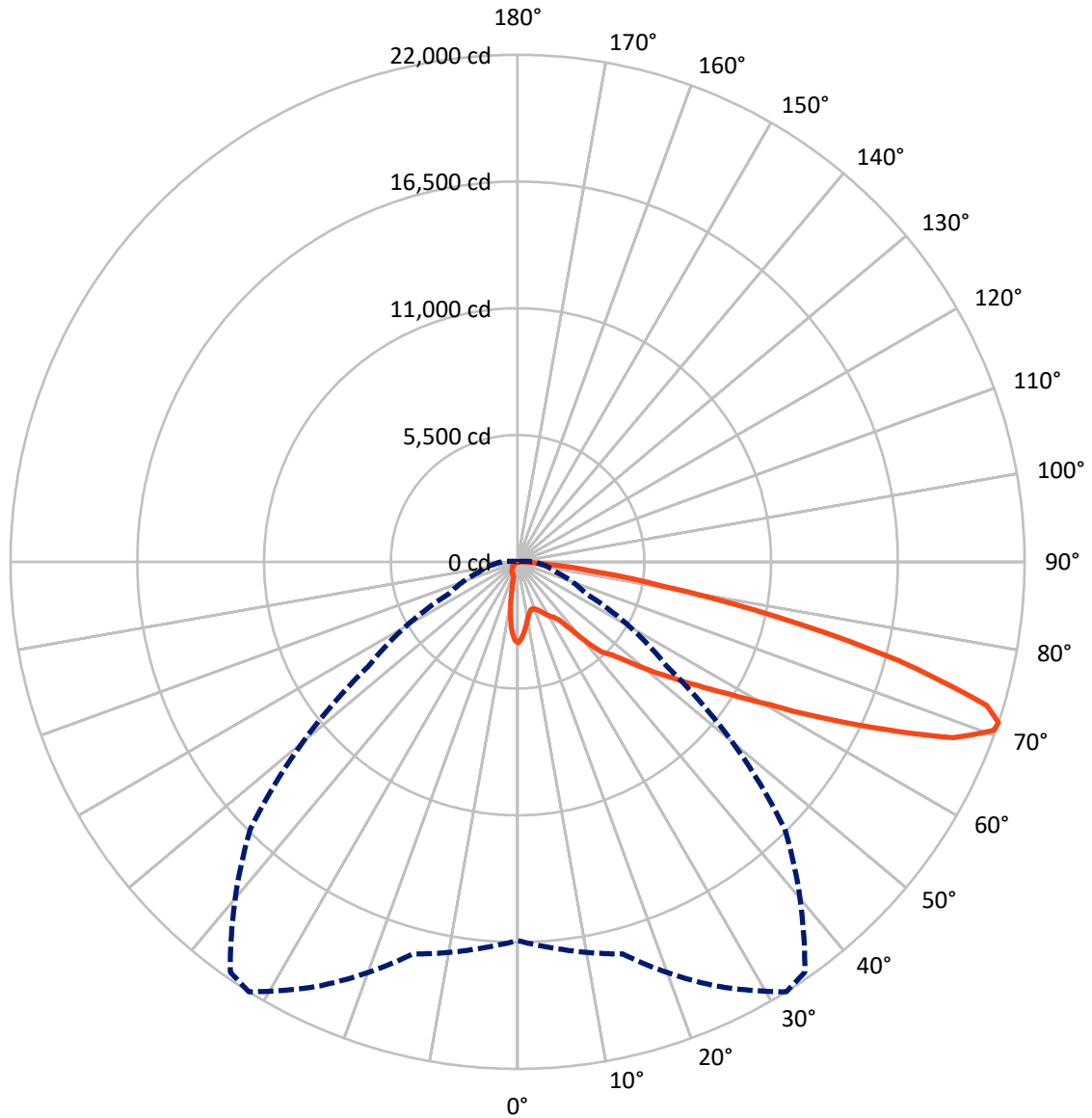
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	1829.6	0.0	1829.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	20013.7	0.0	20013.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	21843.3	0.0	21843.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	1.3
10°-20°	619.9	2.8
20°-30°	964.4	4.4
30°-40°	1606.7	7.4
40°-50°	2988.7	13.7
50°-60°	4798.5	22.0
60°-70°	6454.2	29.5
70°-80°	3829.3	17.5
80°-90°	296.0	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°	21843.3	100.0
0°-180°	21843.3	100.0

Coefficient of Utilization



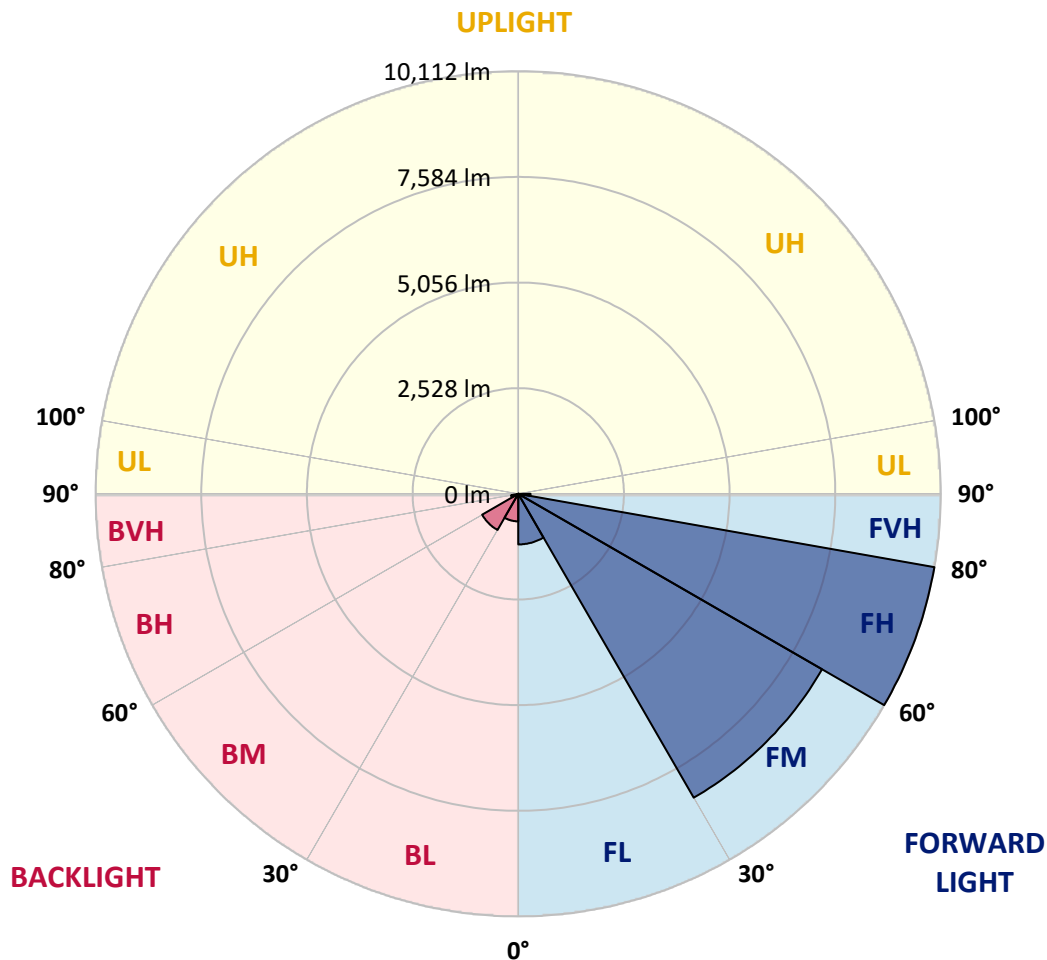
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1210.7	5.5			
FM (30°-60°)	8395.8	38.4			
FH (60°-80°)	10112.4	46.3			G4/12000
FVH (80°-90°)	294.8	1.3			G3/500
BL (0°-30°)	659.2	3.0	B2/1000		
BM (30°-60°)	998.1	4.6	B1/1000		
BH (60°-80°)	171.1	0.8	B1/500		G1/500
BVH (80°-90°)	1.1	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°	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8
2.5°	3257.9	3291.4	3286.4	3298.2	3326.7	3338.4	3370.3	3405.4	3454.0	3487.6	3509.4
5°	2917.5	2942.7	2946.0	3004.7	3033.2	3065.1	3158.9	3261.3	3375.3	3465.8	3526.2
7.5°	2553.7	2567.1	2593.9	2671.0	2743.2	2775.0	2917.5	3095.3	3274.7	3444.0	3553.0
10°	2253.6	2268.6	2317.2	2399.4	2466.5	2508.4	2706.3	2929.3	3180.8	3432.3	3591.5
12.5°	2082.5	2090.8	2109.3	2183.1	2268.6	2313.9	2526.8	2781.7	3105.3	3437.3	3656.9
15°	2070.8	2067.4	2045.6	2075.8	2152.9	2199.8	2407.8	2681.1	3038.3	3454.0	3734.0
17.5°	2132.8	2124.4	2072.4	2072.4	2136.2	2174.7	2357.5	2627.4	3004.7	3492.6	3843.0
20°	2228.3	2215.0	2129.4	2122.7	2184.8	2225.1	2387.7	2630.8	3011.4	3564.8	3988.9
22.5°	2349.1	2334.0	2204.9	2208.2	2275.3	2315.6	2474.8	2691.2	3053.3	3653.6	4144.9
25°	2506.7	2489.9	2337.3	2330.7	2401.1	2436.3	2603.9	2798.4	3112.0	3764.3	4349.4
27.5°	2716.3	2681.1	2498.3	2488.3	2563.7	2609.0	2759.9	2942.7	3215.9	3916.9	4624.4
30°	2889.0	2850.4	2676.1	2649.2	2729.7	2764.9	2920.9	3137.2	3420.5	4183.4	5005.0
32.5°	3115.4	3058.3	2853.8	2783.4	2868.9	2914.2	3153.9	3499.3	3724.0	4465.1	5457.7
35°	3625.1	3589.9	3340.0	3093.6	3088.5	3145.5	3497.7	3864.9	4035.9	4904.5	6074.8
37.5°	4354.5	4329.3	4064.4	3734.0	3638.5	3611.7	3915.2	4267.3	4533.9	5508.1	6792.4
40°	5201.2	5142.5	4899.4	4619.4	4495.3	4416.5	4408.1	4865.9	5184.5	6328.0	7540.3
42.5°	5808.2	5700.9	5405.8	5385.6	5358.9	5276.6	5038.6	5741.1	6024.5	7209.9	8340.0
45°	6445.3	6282.7	5843.4	5768.0	5757.9	5752.9	5991.0	6777.3	6940.0	8165.7	9161.6
47.5°	6940.0	6810.8	6450.4	6416.8	6458.7	6572.8	7250.2	7877.3	7843.8	9017.5	9850.8
50°	7598.9	7501.7	7100.9	7164.7	7380.9	7567.1	8670.4	9076.1	8586.5	9688.1	10352.1
52.5°	8376.9	8197.5	7825.3	7998.0	8330.0	8640.2	10177.7	10125.8	9108.0	10192.9	10726.1
55°	9051.0	8923.5	8796.1	8975.5	9471.9	9859.1	11539.2	10912.2	9487.0	10598.6	10890.4
57.5°	10191.1	10161.0	10030.2	10213.0	10815.0	11217.3	12758.3	11522.5	9730.1	10809.9	10697.6
60°	11878.0	11829.3	11586.2	11819.3	12604.0	13236.1	13881.7	12070.8	9785.4	10727.7	10142.5
62.5°	13906.8	13740.8	13532.9	13876.6	14953.1	15231.5	14939.6	12396.1	9579.1	10073.8	8804.5
65°	15801.5	15630.5	15635.5	16359.8	17531.9	17721.4	16173.7	12347.4	8975.5	8435.7	6494.0
67.5°	17251.9	17223.4	17427.9	18841.4	20374.0	20243.2	17277.1	11619.7	7186.5	5467.8	3450.7
70°	17325.7	17381.0	17967.8	20353.9	21909.8	21701.9	17183.2	9445.0	4480.2	2515.1	1359.8
71°	16433.7	16805.8	17617.4	20306.9	22000.4	21730.4	16391.7	7910.8	3286.4	1753.8	980.9
72.5°	14004.0	14200.3	15954.1	19111.4	21284.4	20707.6	14384.6	5545.0	2104.3	1073.1	563.4
75°	7712.9	8195.9	10684.1	14993.4	17023.8	16517.5	9374.6	2634.2	1049.6	586.9	233.1
77.5°	3672.0	3578.2	5213.0	8916.9	11542.6	11515.8	4723.4	1170.4	612.0	397.4	117.4
80°	1049.6	1180.5	1995.3	4238.8	6408.5	6478.9	1814.2	565.1	424.2	310.2	60.4
82.5°	316.9	323.6	732.7	1874.6	3187.4	3004.7	680.7	288.4	305.1	246.5	35.2
85°	55.4	68.7	216.3	660.6	1215.6	922.2	171.0	137.5	201.2	162.6	20.1
87.5°	3.4	5.0	72.1	75.5	107.3	62.0	30.1	20.1	43.6	43.6	11.7
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°	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8
2.5°	3524.5	3534.5	3527.8	3512.8	3487.6	3457.4	3417.2	3383.7	3355.2	3340.0	3358.5
5°	3546.3	3559.7	3526.2	3450.7	3336.7	3212.6	3071.8	2962.8	2877.3	2850.4	2840.4
7.5°	3579.8	3588.2	3497.7	3330.0	3088.5	2795.1	2538.6	2322.3	2154.6	2104.3	2030.6
10°	3623.4	3618.4	3447.4	3135.5	2711.3	2270.3	1872.9	1577.8	1354.8	1274.3	1267.6
12.5°	3690.5	3663.7	3383.7	2870.6	2261.9	1685.1	1193.8	934.0	793.1	746.1	736.1
15°	3774.3	3710.6	3283.0	2560.3	1732.1	1088.2	736.1	657.3	638.8	635.5	632.1
17.5°	3873.3	3772.7	3150.6	2179.7	1217.3	705.9	615.4	613.7	615.4	612.0	610.3
20°	4007.4	3838.0	2992.9	1728.7	804.8	595.2	586.9	586.9	588.5	586.9	586.9
22.5°	4149.9	3915.2	2798.4	1319.6	607.0	565.1	563.4	566.7	570.1	568.4	568.4
25°	4326.0	4015.8	2541.9	903.7	543.2	539.9	541.6	548.3	555.0	556.7	555.0
27.5°	4580.9	4139.9	2266.9	622.1	498.0	501.4	518.1	534.9	545.0	546.6	546.6
30°	4867.5	4277.4	1908.1	504.7	461.1	461.1	481.2	513.1	534.9	538.2	539.9
32.5°	5236.5	4436.6	1510.7	454.4	425.9	422.5	441.0	479.5	519.8	531.5	531.5
35°	5692.5	4624.4	1123.4	422.5	400.7	392.4	402.4	434.3	486.2	519.8	523.1
37.5°	6227.4	4802.1	821.6	394.0	377.2	365.5	372.2	397.4	439.3	489.6	503.0
40°	6722.0	4959.8	613.7	370.6	353.8	345.4	350.5	362.1	397.4	444.4	452.7
42.5°	7261.9	5082.1	488.0	345.4	330.3	327.0	327.0	332.0	355.5	382.3	384.0
45°	7800.2	5125.8	409.1	315.2	305.1	308.5	306.9	303.5	313.5	310.2	310.2
47.5°	8184.2	5073.8	338.7	286.7	286.7	291.7	283.4	271.6	266.6	246.5	248.1
50°	8447.4	4884.4	278.4	253.2	266.6	273.3	256.5	238.1	219.6	197.9	192.9
52.5°	8556.4	4547.3	228.0	209.6	236.4	244.8	224.7	202.9	174.4	156.0	150.9
55°	8485.9	4131.5	189.5	171.0	199.5	209.6	189.5	164.4	132.5	112.4	109.0
57.5°	8175.8	3635.2	161.0	135.9	159.3	166.0	152.6	125.7	93.9	73.8	73.8
60°	7639.2	3122.1	130.8	107.3	119.0	129.1	115.7	90.5	63.7	45.3	41.9
62.5°	6551.0	2535.2	105.6	83.9	83.9	92.2	80.5	65.4	40.2	23.5	21.8
65°	4730.0	1738.8	83.9	62.0	60.4	60.4	50.3	43.6	23.5	10.0	6.7
67.5°	2570.4	980.9	67.1	47.0	41.9	40.2	31.9	25.1	10.0	1.6	0.0
70°	1011.1	377.2	52.0	31.9	26.9	25.1	16.8	11.7	6.7	0.0	0.0
71°	685.8	259.9	45.3	26.9	21.8	18.5	13.4	10.0	5.0	0.0	0.0
72.5°	392.4	161.0	35.2	20.1	16.8	13.4	10.0	6.7	5.0	0.0	0.0
75°	171.0	82.1	21.8	15.1	11.7	8.4	6.7	5.0	1.6	0.0	0.0
77.5°	87.2	45.3	15.1	11.7	6.7	5.0	3.4	1.6	0.0	0.0	0.0
80°	48.6	23.5	10.0	6.7	5.0	3.4	1.6	1.6	0.0	0.0	0.0
82.5°	26.9	13.4	5.0	3.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.8	8.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	3.4	0.0	0.0	0.0	0.0	1.6	1.6	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)