

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: P459085

Luminaire Tested: **GALN-SA5D-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459085
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-SA5D-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA 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: 26496 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

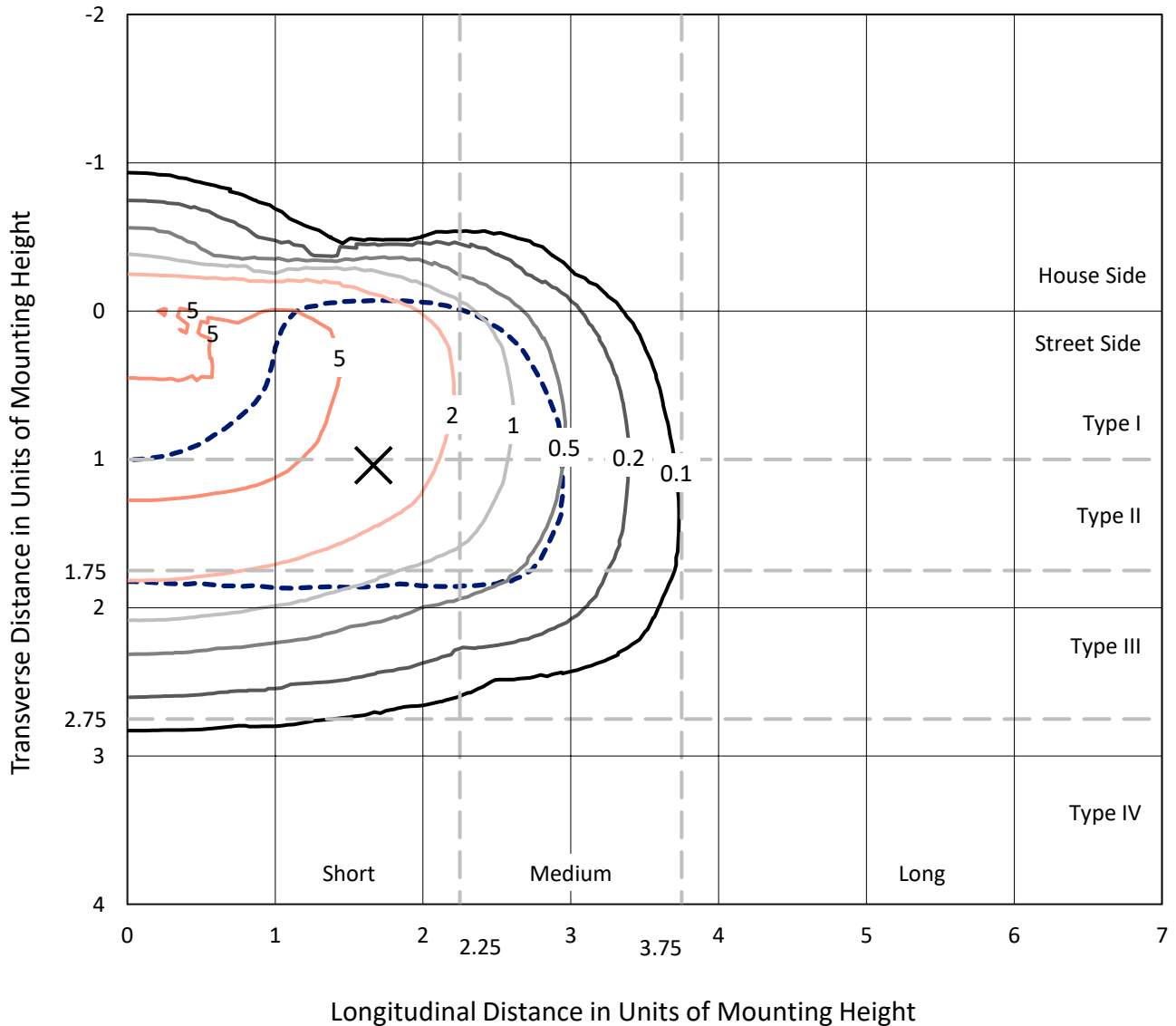
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

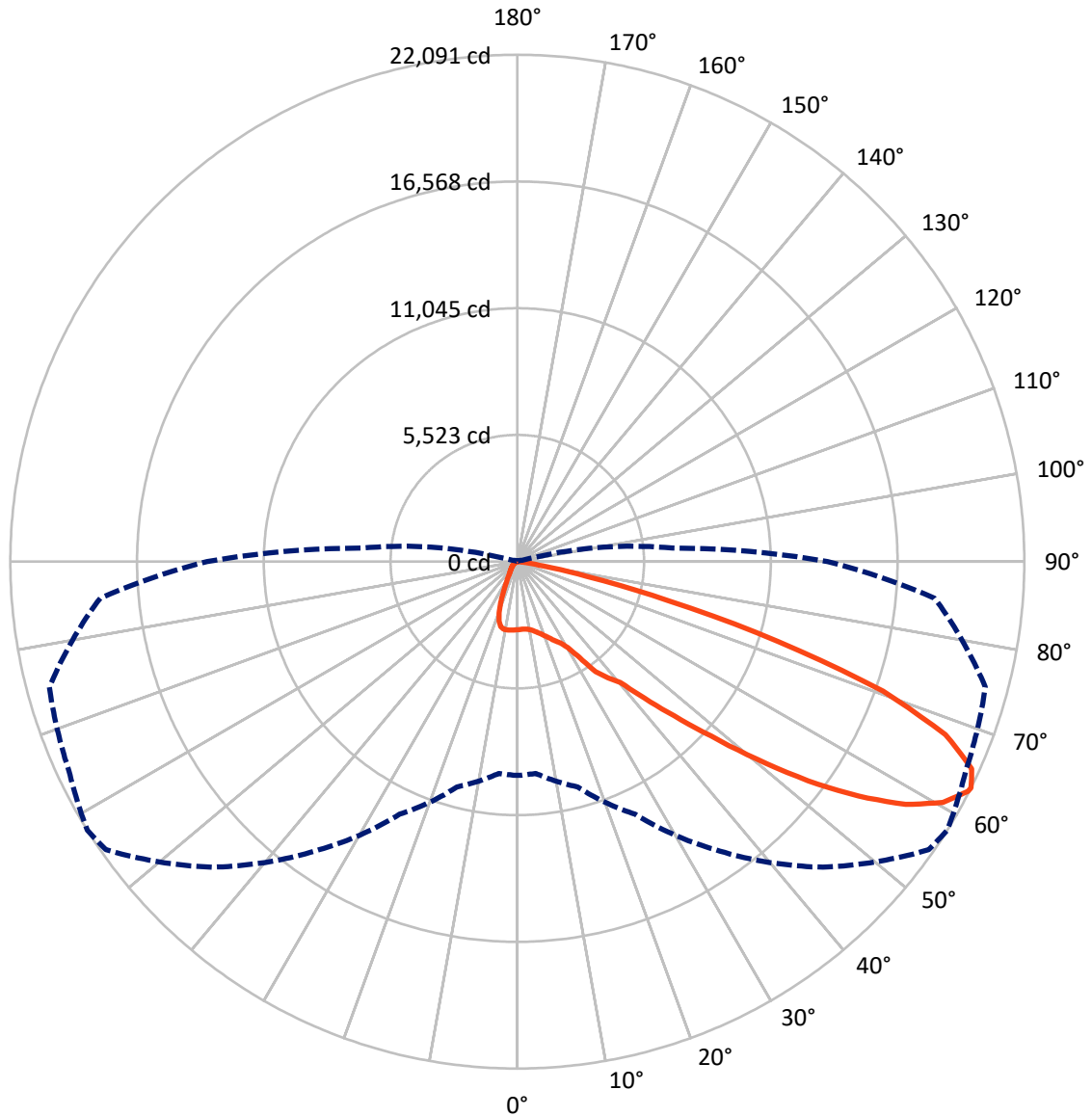
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	2743.5	0.0	2743.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	23752.5	0.0	23752.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	26496.0	0.0	26496.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	1.0
10°-20°	756.3	2.9
20°-30°	1312.6	5.0
30°-40°	2412.1	9.1
40°-50°	4540.8	17.1
50°-60°	7766.6	29.3
60°-70°	7436.5	28.1
70°-80°	1896.3	7.2
80°-90°	97.0	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°	26496.0	100.0
0°-180°	26496.0	100.0

Coefficient of Utilization



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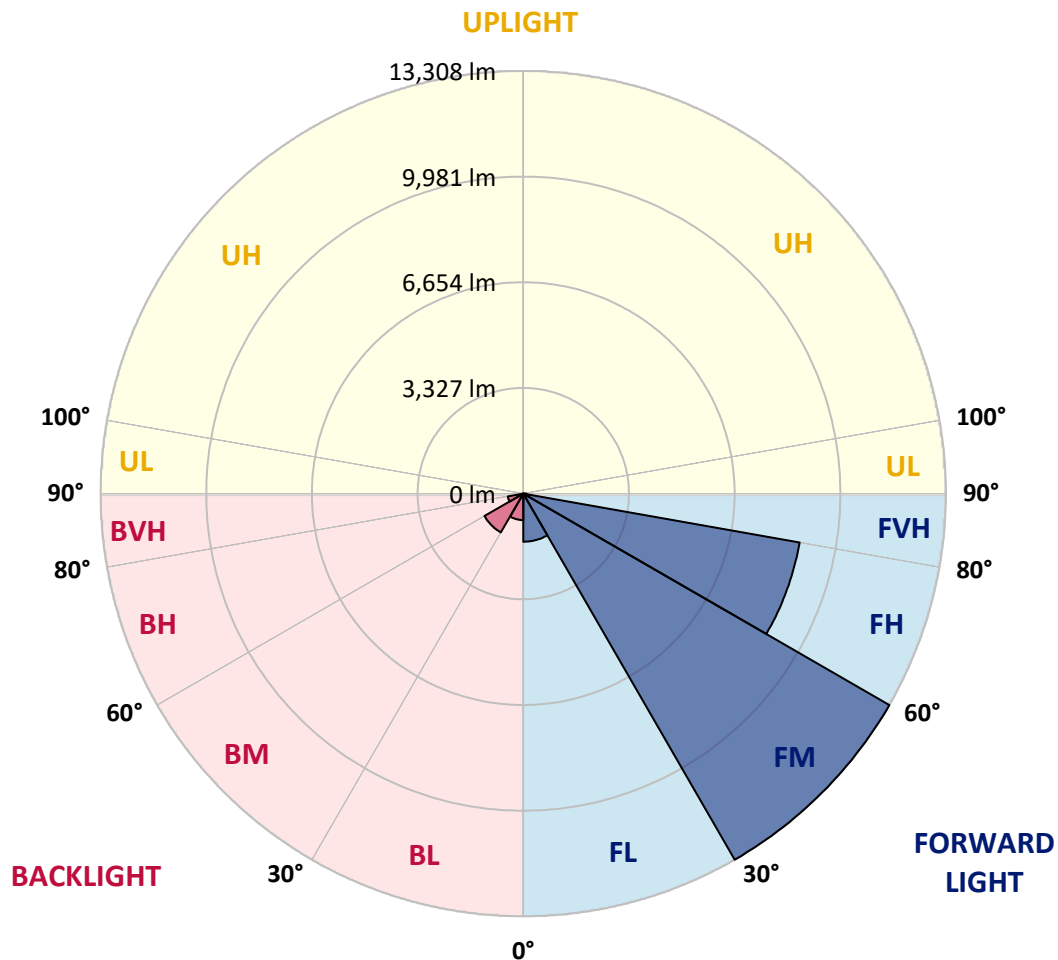
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1514.6	5.7			
FM (30°-60°)	13308.4	50.2			
FH (60°-80°)	8836.3	33.3			G4/12000
FVH (80°-90°)	93.2	0.4			G1/100
BL (0°-30°)	832.0	3.1	B2/1000		
BM (30°-60°)	1411.1	5.3	B2/2500		
BH (60°-80°)	496.6	1.9	B1/500		G1/500
BVH (80°-90°)	3.8	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°	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3
2.5°	2892.5	2902.5	2912.5	2916.5	2930.4	2944.4	2954.4	2952.4	2968.3	2976.3	2976.3
5°	2776.8	2776.8	2802.8	2826.7	2866.6	2906.5	2944.4	2952.4	2982.3	3010.2	3020.2
7.5°	2679.1	2685.1	2705.0	2748.9	2802.8	2872.6	2948.4	2966.3	3018.2	3080.0	3106.0
10°	2633.2	2637.2	2663.1	2709.0	2776.8	2872.6	2978.3	3012.2	3092.0	3189.8	3225.7
12.5°	2623.2	2629.2	2655.1	2707.0	2784.8	2900.5	3044.1	3080.0	3195.7	3321.4	3375.3
15°	2641.2	2645.2	2671.1	2726.9	2812.7	2950.4	3131.9	3181.8	3319.4	3465.0	3534.9
17.5°	2705.0	2701.0	2719.0	2764.9	2860.6	3012.2	3237.6	3297.5	3459.1	3658.5	3704.4
20°	2976.3	2950.4	2934.4	2894.5	2932.4	3100.0	3365.3	3453.1	3652.6	3856.0	3887.9
22.5°	3560.8	3502.9	3389.2	3233.6	3113.9	3219.7	3518.9	3620.6	3878.0	4077.5	4077.5
25°	4304.9	4231.1	4117.4	3778.2	3485.0	3417.2	3692.5	3820.1	4123.3	4324.8	4259.0
27.5°	5236.5	5178.6	4957.2	4562.2	4113.4	3762.3	3893.9	4011.6	4340.8	4584.1	4446.5
30°	5994.5	5966.6	5785.0	5432.0	4937.2	4424.6	4269.0	4346.8	4630.0	4911.3	4769.7
32.5°	6634.8	6634.8	6449.3	6120.2	5657.4	5202.5	4905.3	4961.2	5232.5	5557.6	5294.3
35°	7339.0	7315.1	7165.5	6852.3	6333.6	5932.7	5811.0	5886.8	6132.1	6373.5	5725.2
37.5°	8079.1	8071.1	7915.5	7612.3	7189.4	6684.7	6399.5	6419.4	6545.1	6692.7	6229.9
40°	8883.0	8895.0	8691.5	8504.0	8105.0	7588.4	7041.8	6916.1	7033.8	7450.7	7161.5
42.5°	9832.6	9804.6	9716.9	9461.5	9140.4	8831.2	8174.9	8129.0	8232.7	8679.6	8366.4
45°	10935.7	10975.6	10824.0	10682.4	10466.9	10209.6	9661.0	9581.2	9694.9	10389.1	9944.3
47.5°	12040.9	12003.0	12100.7	12074.8	12190.5	11999.0	11514.2	11350.6	11623.9	12282.2	11627.9
50°	12882.7	12924.6	13128.1	13425.3	13922.0	14029.7	13564.9	13509.1	13630.8	14053.7	13134.0
52.5°	13429.3	13568.9	13888.1	14652.1	15547.8	16244.0	15890.9	15861.0	15811.1	15924.8	14574.3
55°	13786.4	13928.0	14344.9	15470.0	17012.0	18143.1	18161.0	18033.4	17704.2	17622.4	15920.8
57.5°	13566.9	13594.8	14189.3	15693.4	17823.9	19497.6	20084.1	19956.4	19348.0	19038.8	17109.8
60°	12194.5	12252.3	13080.2	14847.6	17470.8	19940.4	21358.8	21300.9	20634.6	20285.5	18035.4
62.5°	9762.8	9930.3	10782.1	12753.0	15829.1	19194.4	21875.4	22039.0	21520.4	21039.6	18326.6
63°	9315.9	9262.1	10161.7	12142.6	15394.2	18825.3	21883.4	22090.9	21560.2	21111.4	18246.8
65°	6896.2	7057.8	7642.2	9575.2	12810.9	17107.8	21390.7	21757.7	21412.6	20794.2	17363.1
67.5°	3872.0	3864.0	4510.3	6265.8	8966.8	13419.3	19342.0	20118.0	20046.2	18659.7	14392.8
70°	1895.1	1925.0	2190.3	3247.6	5200.6	9258.1	16072.4	16910.3	16936.2	14656.1	9952.3
72.5°	857.8	871.7	1061.3	1581.9	2673.1	4929.3	11075.4	11875.3	11727.7	9339.8	5495.8
75°	452.8	482.8	584.5	795.9	1288.7	2032.7	6024.4	6798.4	6489.2	4267.0	2022.8
77.5°	335.1	345.1	397.0	506.7	690.2	792.0	2599.3	3092.0	2896.5	1544.0	670.3
80°	245.4	253.3	295.2	359.1	434.9	403.0	979.5	1123.1	1007.4	524.6	205.5
82.5°	149.6	151.6	215.4	267.3	273.3	225.4	323.2	347.1	363.1	295.2	111.7
85°	53.9	67.8	145.6	193.5	161.6	113.7	135.6	149.6	163.6	187.5	65.8
87.5°	6.0	8.0	69.8	93.8	45.9	41.9	49.9	55.9	59.8	69.8	31.9
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°	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3
2.5°	2984.3	2992.3	2986.3	2976.3	2974.3	2968.3	2956.4	2956.4	2956.4	2960.3	2956.4
5°	3028.2	3034.2	3020.2	3000.2	2978.3	2950.4	2920.4	2902.5	2900.5	2896.5	2886.5
7.5°	3112.0	3119.9	3088.0	3040.1	2980.3	2912.5	2848.6	2788.8	2760.9	2738.9	2738.9
10°	3233.6	3241.6	3177.8	3092.0	2972.3	2834.7	2683.1	2545.4	2437.7	2387.8	2375.9
12.5°	3379.3	3383.3	3277.5	3127.9	2930.4	2665.1	2341.9	2040.7	1831.3	1735.5	1725.5
15°	3538.8	3510.9	3371.3	3141.9	2810.7	2316.0	1757.5	1388.4	1171.0	1107.1	1131.1
17.5°	3700.4	3648.6	3443.1	3119.9	2541.4	1757.5	1180.9	947.5	879.7	861.8	861.8
20°	3852.0	3780.2	3495.0	3024.2	2074.6	1210.9	875.7	819.9	807.9	795.9	797.9
22.5°	4003.6	3893.9	3540.8	2810.7	1546.0	865.8	784.0	766.0	750.1	734.1	732.1
25°	4151.3	3999.7	3558.8	2415.8	1053.3	744.1	716.1	692.2	660.3	642.3	638.3
27.5°	4304.9	4127.3	3546.8	1917.0	768.0	666.3	638.3	604.4	566.5	534.6	534.6
30°	4600.1	4370.7	3504.9	1378.4	646.3	586.5	550.6	496.7	454.8	422.9	420.9
32.5°	5003.1	4687.9	3361.3	969.5	574.5	516.7	462.8	403.0	359.1	335.1	335.1
35°	5362.1	5007.1	3092.0	714.2	516.7	448.8	383.0	325.2	291.2	275.3	269.3
37.5°	5908.7	5473.8	2721.0	580.5	460.8	389.0	321.2	267.3	239.4	227.4	227.4
40°	6728.6	6044.4	2266.1	508.7	406.9	331.1	267.3	225.4	203.5	189.5	189.5
42.5°	7746.0	6742.6	1805.3	456.8	357.1	285.3	223.4	191.5	171.6	161.6	159.6
45°	9026.7	7478.7	1390.4	408.9	317.2	243.4	189.5	161.6	141.6	135.6	137.6
47.5°	10363.2	8127.0	1077.2	367.1	275.3	205.5	161.6	139.6	125.7	117.7	117.7
50°	11504.3	8573.8	817.9	319.2	243.4	173.6	141.6	125.7	113.7	109.7	107.7
52.5°	12457.8	8703.5	626.4	277.3	213.4	149.6	125.7	113.7	103.7	97.7	97.7
55°	13269.7	8589.8	490.7	233.4	179.5	129.7	111.7	101.7	89.8	83.8	81.8
57.5°	13744.5	8224.7	375.0	193.5	145.6	107.7	97.7	85.8	71.8	61.8	61.8
60°	13983.8	7694.1	287.3	159.6	111.7	85.8	79.8	63.8	49.9	41.9	39.9
62.5°	13696.6	6989.9	217.4	125.7	83.8	63.8	53.9	45.9	31.9	23.9	23.9
63°	13519.0	6786.5	209.5	119.7	77.8	59.8	49.9	41.9	27.9	21.9	19.9
65°	12324.1	5898.7	171.6	95.8	61.8	41.9	33.9	29.9	19.9	10.0	8.0
67.5°	9786.7	4512.3	135.6	71.8	43.9	29.9	19.9	18.0	6.0	0.0	0.0
70°	6616.9	2914.5	105.7	51.9	29.9	18.0	10.0	8.0	2.0	0.0	0.0
72.5°	3451.1	1494.1	81.8	37.9	18.0	12.0	6.0	2.0	0.0	0.0	0.0
75°	1220.8	508.7	59.8	23.9	12.0	6.0	2.0	0.0	0.0	0.0	0.0
77.5°	369.0	189.5	37.9	18.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0
80°	129.7	69.8	21.9	12.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	63.8	33.9	14.0	10.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	35.9	21.9	12.0	10.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.9	16.0	12.0	10.0	8.0	4.0	2.0	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)