

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: P456794

Luminaire Tested: **GALN-SA8A-750-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456794  
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-SA8A-750-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 615mA 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: 27112 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

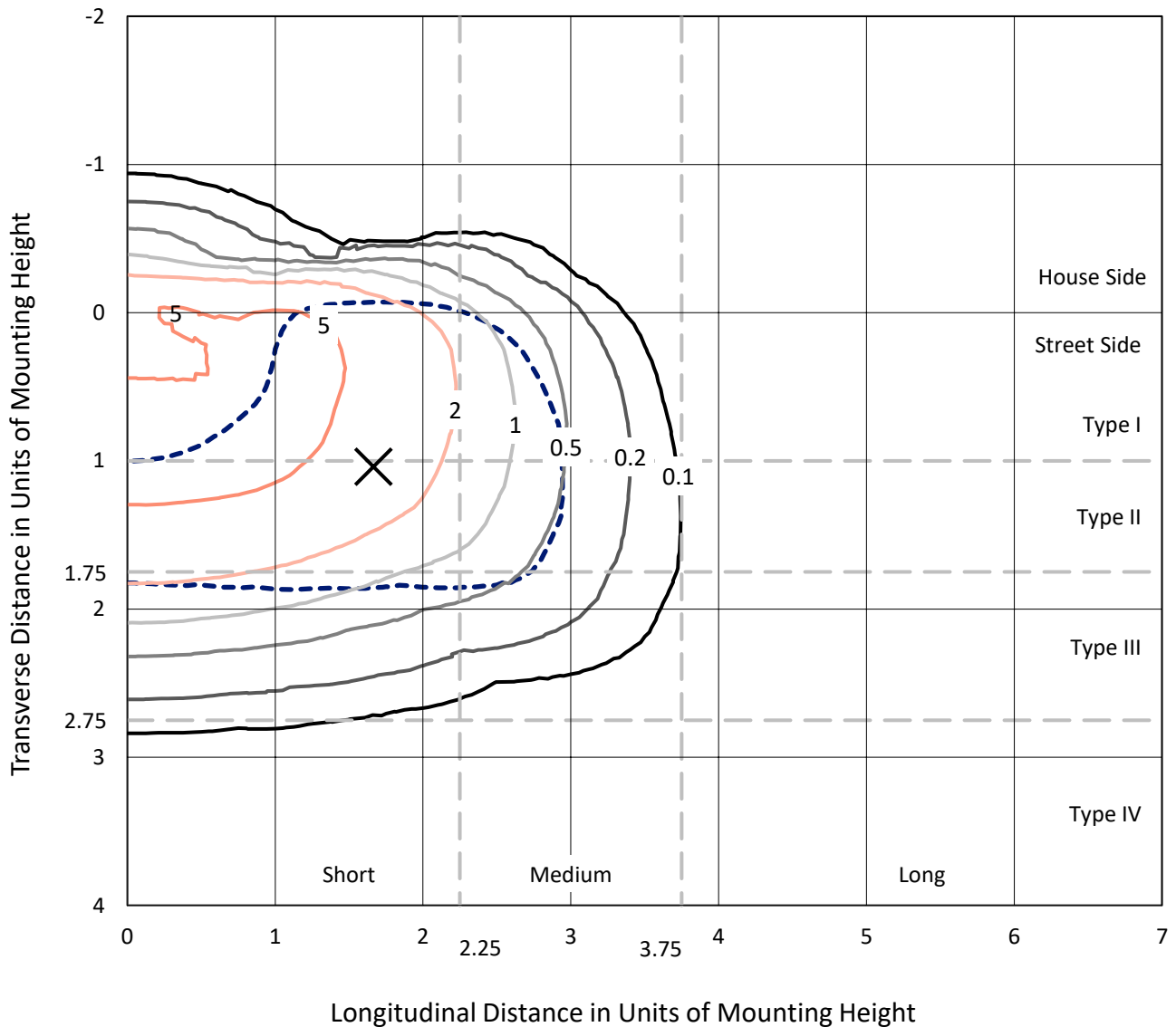
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

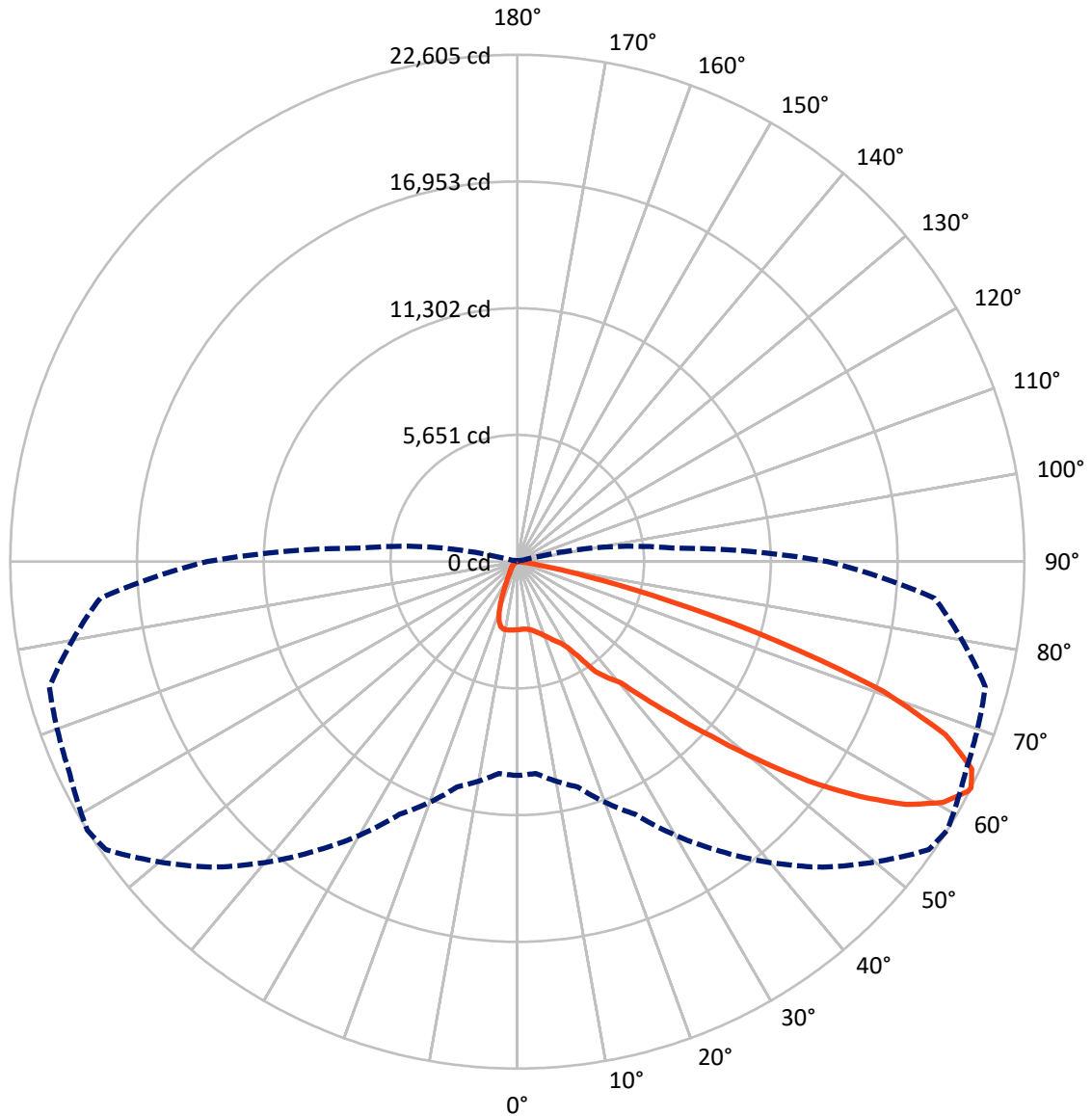
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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
<b>House Side</b>	Lumens	2807.3	0.0	2807.3
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	24304.7	0.0	24304.7
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	27112.0	0.0	27112.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.1	1.0
10°-20°	773.9	2.9
20°-30°	1343.2	5.0
30°-40°	2468.2	9.1
40°-50°	4646.3	17.1
50°-60°	7947.2	29.3
60°-70°	7609.4	28.1
70°-80°	1940.4	7.2
80°-90°	99.2	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°	27112.0	100.0
0°-180°	27112.0	100.0

**Coefficient of Utilization**



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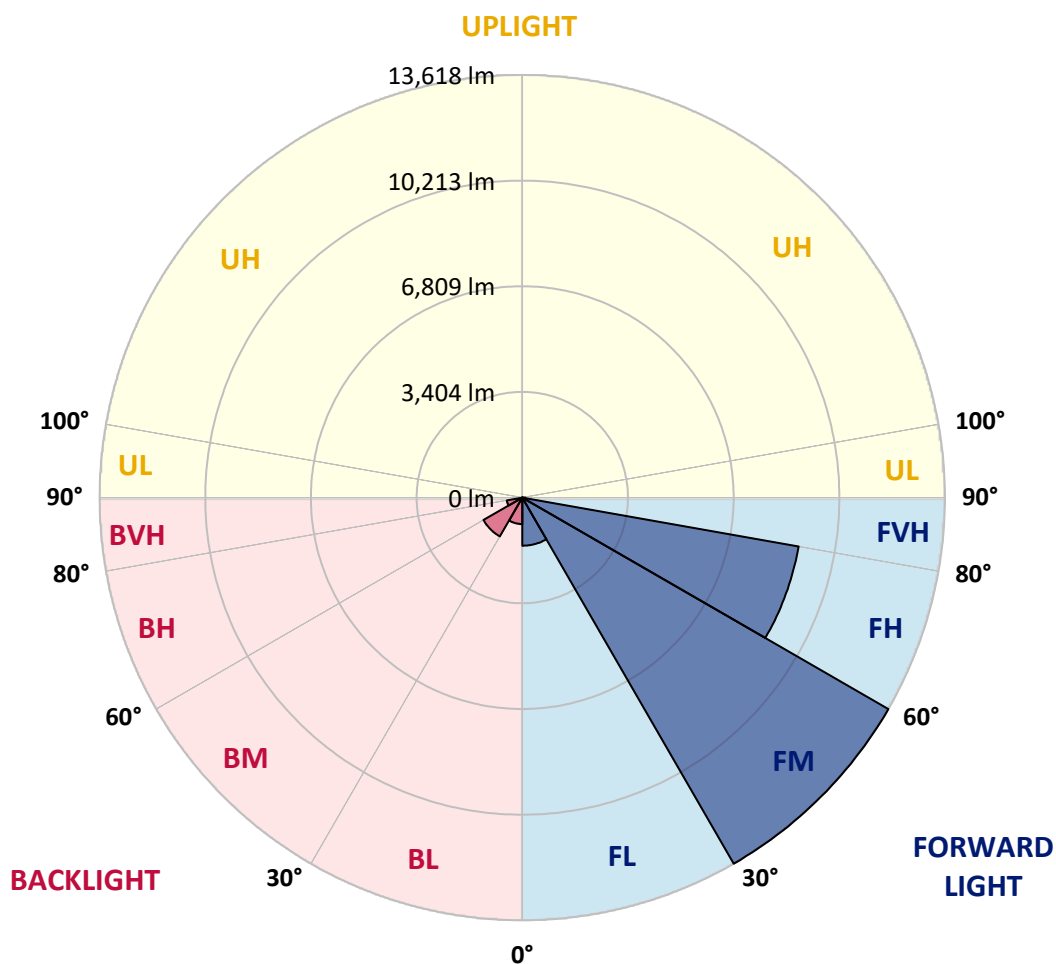
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1549.8	5.7			
FM	(30°-60°)	13617.8	50.2			
FH	(60°-80°)	9041.7	33.3			G4/12000
FVH	(80°-90°)	95.4	0.4			G1/100
BL	(0°-30°)	851.4	3.1	B2/1000		
BM	(30°-60°)	1443.9	5.3	B2/2500		
BH	(60°-80°)	508.2	1.9	B2/1000		G2/1000
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°	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3
2.5°	2959.8	2970.0	2980.2	2984.3	2998.6	3012.8	3023.0	3021.0	3037.3	3045.5	3045.5
5°	2841.4	2841.4	2867.9	2892.4	2933.2	2974.1	3012.8	3021.0	3051.6	3080.2	3090.4
7.5°	2741.4	2747.5	2767.9	2812.8	2867.9	2939.4	3016.9	3035.3	3088.4	3151.6	3178.2
10°	2694.4	2698.5	2725.0	2772.0	2841.4	2939.4	3047.5	3082.2	3163.9	3263.9	3300.7
12.5°	2684.2	2690.3	2716.9	2769.9	2849.5	2967.9	3114.9	3151.6	3270.0	3398.6	3453.7
15°	2702.6	2706.7	2733.2	2790.3	2878.1	3019.0	3204.7	3255.7	3396.6	3545.6	3617.0
17.5°	2767.9	2763.8	2782.2	2829.1	2927.1	3082.2	3312.9	3374.1	3539.5	3743.6	3790.5
20°	3045.5	3019.0	3002.6	2961.8	3000.6	3172.1	3443.5	3533.4	3737.5	3945.7	3978.3
22.5°	3643.6	3584.4	3468.0	3308.8	3186.3	3294.5	3600.7	3704.8	3968.1	4172.3	4172.3
25°	4405.0	4329.4	4213.1	3866.1	3566.0	3496.6	3778.3	3908.9	4219.2	4425.4	4358.0
27.5°	5358.2	5299.0	5072.4	4668.3	4209.0	3849.7	3984.5	4104.9	4441.7	4690.7	4549.9
30°	6133.9	6105.3	5919.5	5558.2	5052.0	4527.4	4368.2	4447.8	4737.7	5025.5	4880.6
32.5°	6789.1	6789.1	6599.3	6262.5	5788.9	5323.5	5019.4	5076.5	5354.1	5686.8	5417.4
35°	7509.6	7485.2	7332.1	7011.6	6480.9	6070.6	5946.1	6023.6	6274.7	6521.7	5858.3
37.5°	8266.9	8258.8	8099.6	7789.3	7356.6	6840.1	6548.2	6568.6	6697.2	6848.3	6374.7
40°	9089.6	9101.8	8893.6	8701.7	8293.5	7764.8	7205.5	7076.9	7197.3	7624.0	7328.0
42.5°	10061.2	10032.6	9942.8	9681.5	9352.9	9036.5	8364.9	8318.0	8424.1	8881.3	8560.9
45°	11190.0	11230.8	11075.7	10930.7	10710.3	10447.0	9885.6	9804.0	9920.3	10630.7	10175.5
47.5°	12320.8	12282.0	12382.0	12355.5	12473.9	12277.9	11781.9	11614.5	11894.2	12567.8	11898.3
50°	13182.2	13225.1	13433.3	13737.4	14245.7	14355.9	13880.3	13823.1	13947.7	14380.4	13439.4
52.5°	13741.5	13884.4	14211.0	14992.8	15909.3	16621.6	16260.4	16229.7	16178.7	16295.1	14913.1
55°	14106.9	14251.8	14678.4	15829.7	17407.5	18564.9	18583.3	18452.6	18115.8	18032.1	16291.0
57.5°	13882.3	13910.9	14519.2	16058.3	18238.3	19950.9	20551.0	20420.4	19797.8	19481.4	17507.5
60°	12478.0	12537.2	13384.3	15192.8	17877.0	20404.0	21855.3	21796.1	21114.4	20757.2	18454.7
62.5°	9989.7	10161.2	11032.8	13049.5	16197.1	19640.6	22384.0	22551.4	22020.7	21528.7	18752.7
63°	9532.5	9477.4	10398.0	12424.9	15752.1	19263.0	22392.2	22604.5	22061.5	21602.2	18671.0
65°	7056.5	7221.8	7819.9	9797.9	13108.7	17505.5	21888.0	22263.6	21910.4	21277.7	17766.8
67.5°	3962.0	3953.8	4615.2	6411.5	9175.3	13731.3	19791.7	20585.7	20512.2	19093.6	14727.4
70°	1939.2	1969.8	2241.3	3323.1	5321.5	9473.3	16446.1	17303.4	17330.0	14996.8	10183.6
72.5°	877.7	892.0	1085.9	1618.7	2735.2	5043.9	11332.9	12151.4	12000.3	9557.0	5623.6
75°	463.4	494.0	598.1	814.4	1318.6	2080.0	6164.5	6956.5	6640.1	4366.2	2069.8
77.5°	342.9	353.1	406.2	518.5	706.3	810.4	2659.7	3163.9	2963.9	1579.9	685.8
80°	251.1	259.2	302.1	367.4	445.0	412.3	1002.2	1149.2	1030.8	536.8	210.2
82.5°	153.1	155.1	220.5	273.5	279.6	230.7	330.7	355.2	371.5	302.1	114.3
85°	55.1	69.4	149.0	198.0	165.3	116.3	138.8	153.1	167.4	191.9	67.4
87.5°	6.1	8.2	71.4	95.9	46.9	42.9	51.0	57.2	61.2	71.4	32.7
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°	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3
2.5°	3053.7	3061.8	3055.7	3045.5	3043.5	3037.3	3025.1	3025.1	3025.1	3029.2	3025.1
5°	3098.6	3104.7	3090.4	3070.0	3047.5	3019.0	2988.3	2970.0	2967.9	2963.9	2953.6
7.5°	3184.3	3192.5	3159.8	3110.8	3049.6	2980.2	2914.9	2853.6	2825.0	2802.6	2802.6
10°	3308.8	3317.0	3251.7	3163.9	3041.4	2900.6	2745.4	2604.6	2494.4	2443.3	2431.1
12.5°	3457.8	3461.9	3353.7	3200.6	2998.6	2727.1	2396.4	2088.2	1873.8	1775.9	1765.7
15°	3621.1	3592.5	3449.7	3214.9	2876.1	2369.9	1798.3	1420.7	1198.2	1132.9	1157.4
17.5°	3786.5	3733.4	3523.1	3192.5	2600.5	1798.3	1208.4	969.6	900.2	881.8	881.8
20°	3941.6	3868.1	3576.2	3094.5	2122.9	1239.0	896.1	838.9	826.7	814.4	816.5
22.5°	4096.7	3984.5	3623.2	2876.1	1581.9	885.9	802.2	783.8	767.5	751.2	749.1
25°	4247.8	4092.6	3641.5	2471.9	1077.8	761.4	732.8	708.3	675.6	657.3	653.2
27.5°	4405.0	4223.3	3629.3	1961.6	785.9	681.8	653.2	618.5	579.7	547.0	547.0
30°	4707.1	4472.3	3586.4	1410.5	661.4	600.1	563.4	508.3	465.4	432.7	430.7
32.5°	5119.4	4796.9	3439.5	992.0	587.9	528.7	473.6	412.3	367.4	342.9	342.9
35°	5486.8	5123.5	3163.9	730.8	528.7	459.3	391.9	332.7	298.0	281.7	275.6
37.5°	6046.1	5601.1	2784.2	594.0	471.5	398.0	328.6	273.5	244.9	232.7	232.7
40°	6885.0	6184.9	2318.8	520.5	416.4	338.8	273.5	230.7	208.2	193.9	193.9
42.5°	7926.1	6899.3	1847.3	467.4	365.4	291.9	228.6	196.0	175.5	165.3	163.3
45°	9236.5	7652.5	1422.7	418.4	324.6	249.0	193.9	165.3	144.9	138.8	140.8
47.5°	10604.1	8315.9	1102.3	375.6	281.7	210.2	165.3	142.9	128.6	120.4	120.4
50°	11771.7	8773.2	836.9	326.6	249.0	177.6	144.9	128.6	116.3	112.3	110.2
52.5°	12747.4	8905.8	640.9	283.7	218.4	153.1	128.6	116.3	106.1	100.0	100.0
55°	13578.2	8789.5	502.1	238.8	183.7	132.7	114.3	104.1	91.9	85.7	83.7
57.5°	14064.0	8415.9	383.7	198.0	149.0	110.2	100.0	87.8	73.5	63.3	63.3
60°	14308.9	7873.0	293.9	163.3	114.3	87.8	81.6	65.3	51.0	42.9	40.8
62.5°	14015.0	7152.4	222.5	128.6	85.7	65.3	55.1	46.9	32.7	24.5	24.5
63°	13833.3	6944.2	214.3	122.5	79.6	61.2	51.0	42.9	28.6	22.5	20.4
65°	12610.7	6035.9	175.5	98.0	63.3	42.9	34.7	30.6	20.4	10.2	8.2
67.5°	10014.2	4617.2	138.8	73.5	44.9	30.6	20.4	18.4	6.1	0.0	0.0
70°	6770.7	2982.2	108.2	53.1	30.6	18.4	10.2	8.2	2.0	0.0	0.0
72.5°	3531.3	1528.9	83.7	38.8	18.4	12.2	6.1	2.0	0.0	0.0	0.0
75°	1249.2	520.5	61.2	24.5	12.2	6.1	2.0	0.0	0.0	0.0	0.0
77.5°	377.6	193.9	38.8	18.4	8.2	4.1	0.0	0.0	0.0	0.0	0.0
80°	132.7	71.4	22.5	12.2	6.1	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	65.3	34.7	14.3	10.2	6.1	2.0	0.0	0.0	0.0	0.0	0.0
85°	36.7	22.5	12.2	10.2	6.1	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	26.5	16.3	12.2	10.2	8.2	4.1	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)