

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: P650983

Luminaire Tested: **GALN-SA6C-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650983
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-SA6C-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA 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: 25741.3 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

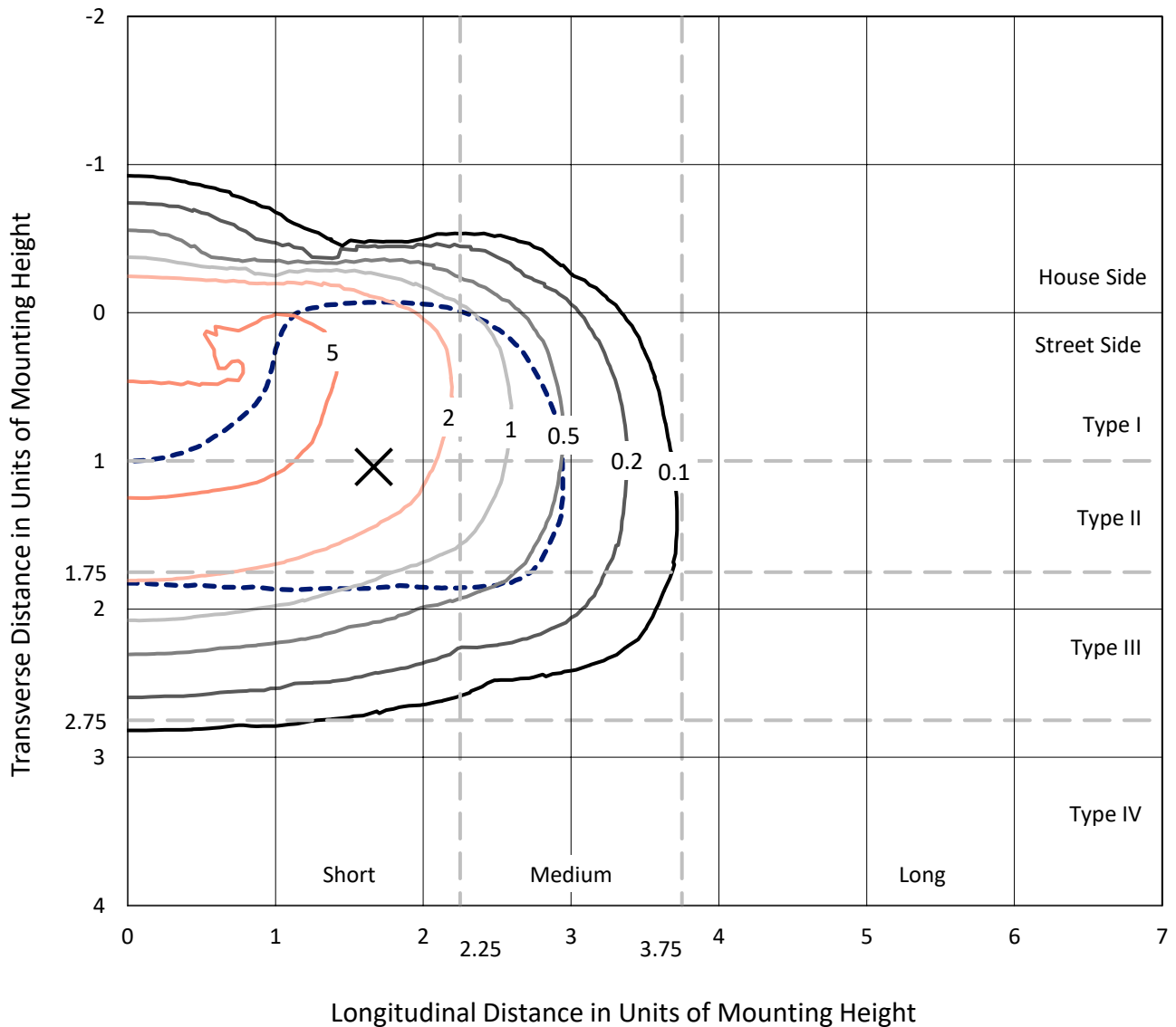
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

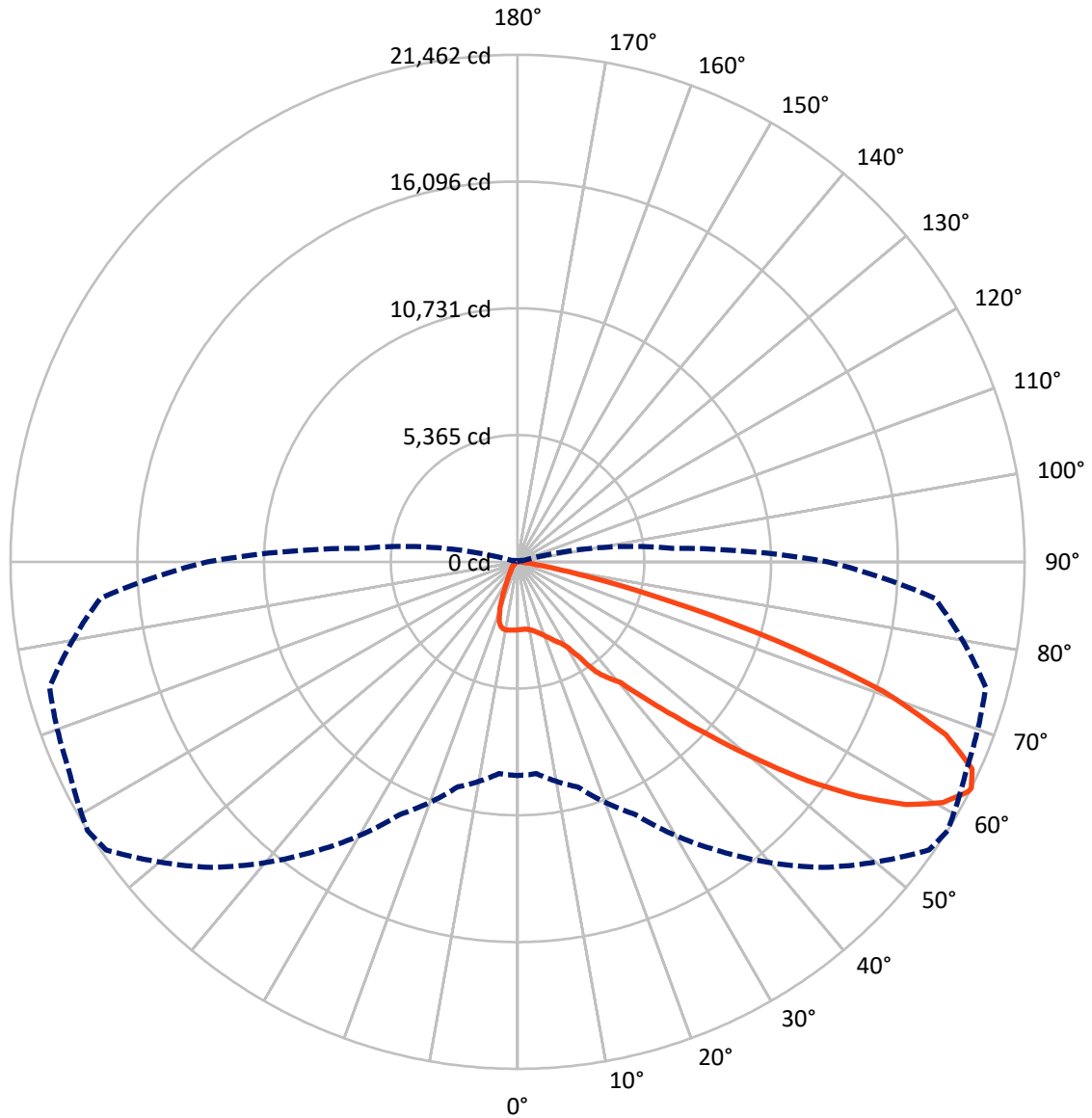
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SA6C-840-U-T3-HSS

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	2665.3	0.0	2665.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	23076.0	0.0	23076.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	25741.3	0.0	25741.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.8	1.0
10°-20°	734.8	2.9
20°-30°	1275.2	5.0
30°-40°	2343.4	9.1
40°-50°	4411.4	17.1
50°-60°	7545.4	29.3
60°-70°	7224.7	28.1
70°-80°	1842.3	7.2
80°-90°	94.2	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°	25741.3	100.0
0°-180°	25741.3	100.0

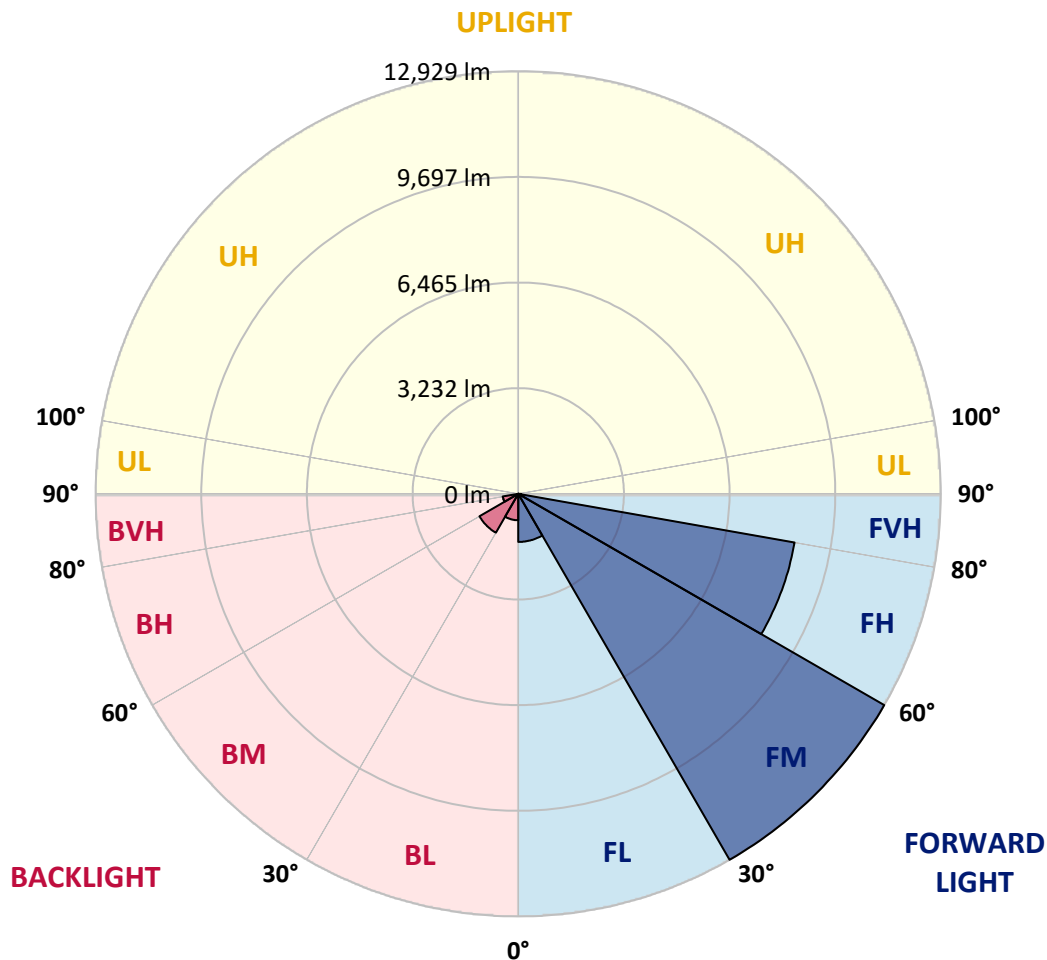


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1471.5	5.7			
FM (30°-60°)	12929.4	50.2			
FH (60°-80°)	8584.6	33.3			G4/12000
FVH (80°-90°)	90.6	0.4			G1/100
BL (0°-30°)	808.3	3.1	B2/1000		
BM (30°-60°)	1370.9	5.3	B2/2500		
BH (60°-80°)	482.5	1.9	B1/500		G1/500
BVH (80°-90°)	3.6	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°	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9
2.5°	2810.1	2819.8	2829.5	2833.4	2847.0	2860.5	2870.2	2868.3	2883.8	2891.5	2891.5
5°	2697.8	2697.8	2722.9	2746.2	2785.0	2823.7	2860.5	2868.3	2897.3	2924.5	2934.2
7.5°	2602.7	2608.6	2628.0	2670.6	2722.9	2790.8	2864.4	2881.9	2932.2	2992.3	3017.5
10°	2558.2	2562.1	2587.3	2631.8	2697.8	2790.8	2893.5	2926.4	3004.0	3098.9	3133.8
12.5°	2548.5	2554.3	2579.5	2629.9	2705.5	2817.9	2957.5	2992.3	3104.7	3226.8	3279.1
15°	2566.0	2569.8	2595.0	2649.3	2732.6	2866.3	3042.7	3091.2	3224.9	3366.4	3434.1
17.5°	2628.0	2624.1	2641.5	2686.1	2779.1	2926.4	3145.4	3203.5	3360.6	3554.3	3598.9
20°	2891.5	2866.3	2850.8	2812.1	2848.9	3011.7	3269.5	3354.7	3548.5	3746.2	3777.2
22.5°	3459.4	3403.2	3292.7	3141.6	3025.2	3127.9	3418.7	3517.5	3767.5	3961.4	3961.4
25°	4182.3	4110.6	4000.0	3670.6	3385.7	3319.8	3587.3	3711.3	4005.9	4201.6	4137.7
27.5°	5087.3	5031.1	4816.0	4432.2	3996.2	3655.2	3783.0	3897.4	4217.1	4453.6	4319.9
30°	5823.8	5796.6	5620.2	5277.3	4796.6	4298.5	4147.4	4222.9	4498.2	4771.4	4633.8
32.5°	6445.8	6445.8	6265.6	5945.9	5496.3	5054.3	4765.6	4819.9	5083.4	5399.3	5143.6
35°	7130.0	7106.7	6961.4	6657.1	6153.3	5763.7	5645.5	5719.1	5957.5	6191.9	5562.1
37.5°	7849.0	7841.2	7690.1	7395.5	6984.7	6494.3	6217.2	6236.5	6358.6	6502.1	6052.4
40°	8630.0	8641.6	8444.0	8261.8	7874.2	7372.2	6841.2	6719.2	6833.5	7238.5	6957.5
42.5°	9552.5	9525.4	9440.1	9192.0	8880.0	8579.6	7942.0	7897.4	7998.2	8432.4	8128.1
45°	10624.3	10663.0	10515.7	10378.1	10168.8	9918.8	9385.8	9308.4	9418.8	10093.3	9661.1
47.5°	11697.9	11661.1	11756.1	11730.9	11843.3	11657.2	11186.3	11027.4	11292.9	11932.4	11296.7
50°	12515.8	12556.5	12754.1	13042.9	13525.5	13630.1	13178.6	13124.3	13242.6	13653.4	12760.0
52.5°	13046.8	13182.4	13492.5	14234.8	15104.9	15781.4	15438.3	15409.2	15360.8	15471.2	14159.2
55°	13393.7	13531.3	13936.3	15029.3	16527.5	17626.4	17643.8	17519.7	17200.0	17120.5	15467.3
57.5°	13180.5	13207.7	13785.2	15246.4	17316.3	18942.3	19512.0	19388.0	18796.9	18496.5	16622.4
60°	11847.2	11903.3	12707.6	14424.7	16973.2	19372.5	20750.4	20694.2	20046.9	19707.7	17521.6
62.5°	9484.7	9647.4	10475.0	12389.8	15378.2	18647.7	21252.4	21411.3	20907.4	20440.3	17804.6
63°	9050.6	8998.3	9872.3	11796.8	14955.8	18289.1	21260.1	21461.6	20946.2	20510.1	17727.1
65°	6699.7	6856.8	7424.6	9302.6	12446.0	16620.5	20781.4	21138.0	20802.7	20202.0	16868.5
67.5°	3761.7	3754.0	4381.9	6087.3	8711.4	13037.1	18791.1	19545.0	19475.2	18128.3	13982.8
70°	1841.1	1870.2	2128.0	3155.1	5052.4	8994.3	15614.7	16428.6	16453.8	14238.6	9668.8
72.5°	833.3	846.9	1031.1	1536.8	2596.9	4788.8	10759.9	11537.1	11393.6	9073.8	5339.3
75°	439.9	469.0	567.8	773.3	1252.0	1974.8	5852.9	6604.8	6304.4	4145.5	1965.2
77.5°	325.6	335.3	385.7	492.2	670.5	769.4	2525.3	3004.0	2814.0	1500.0	651.2
80°	238.3	246.2	286.9	348.8	422.5	391.5	951.6	1091.1	978.7	509.7	199.7
82.5°	145.3	147.3	209.3	259.7	265.5	219.0	313.9	337.2	352.7	286.9	108.5
85°	52.3	65.9	141.5	188.0	157.0	110.5	131.8	145.3	158.9	182.2	63.9
87.5°	5.8	7.7	67.9	91.1	44.6	40.7	48.4	54.2	58.1	67.9	31.0
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°	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9
2.5°	2899.3	2907.0	2901.2	2891.5	2889.6	2883.8	2872.2	2872.2	2872.2	2876.1	2872.2
5°	2941.9	2947.7	2934.2	2914.8	2893.5	2866.3	2837.3	2819.8	2817.9	2814.0	2804.3
7.5°	3023.3	3031.0	3000.1	2953.5	2895.4	2829.5	2767.5	2709.4	2682.2	2660.9	2660.9
10°	3141.6	3149.3	3087.3	3004.0	2887.7	2753.9	2606.7	2472.9	2368.3	2319.8	2308.2
12.5°	3283.0	3286.9	3184.2	3038.8	2847.0	2589.2	2275.2	1982.6	1779.1	1686.1	1676.4
15°	3438.1	3410.9	3275.3	3052.4	2730.6	2250.0	1707.4	1348.9	1137.6	1075.6	1098.9
17.5°	3595.0	3544.6	3345.0	3031.0	2469.0	1707.4	1147.3	920.6	854.7	837.2	837.2
20°	3742.3	3672.6	3395.5	2938.0	2015.5	1176.4	850.8	796.5	784.9	773.3	775.2
22.5°	3889.6	3783.0	3440.0	2730.6	1501.9	841.1	761.6	744.2	728.7	713.2	711.2
25°	4033.0	3885.8	3457.4	2347.0	1023.2	722.9	695.8	672.5	641.5	624.0	620.2
27.5°	4182.3	4009.8	3445.8	1862.5	746.1	647.3	620.2	587.2	550.4	519.4	519.4
30°	4469.1	4246.2	3405.1	1339.2	627.9	569.8	534.9	482.6	441.9	410.8	408.9
32.5°	4860.6	4554.4	3265.6	941.9	558.2	501.9	449.6	391.5	348.8	325.6	325.6
35°	5209.4	4864.4	3004.0	693.8	501.9	436.1	372.1	315.9	282.9	267.4	261.6
37.5°	5740.4	5317.9	2643.4	564.0	447.7	377.9	312.0	259.7	232.5	220.9	220.9
40°	6536.9	5872.2	2201.6	494.2	395.4	321.7	259.7	219.0	197.7	184.1	184.1
42.5°	7525.4	6550.5	1753.9	443.8	346.9	277.1	217.1	186.0	166.7	157.0	155.1
45°	8769.5	7265.7	1350.8	397.3	308.1	236.4	184.1	157.0	137.6	131.8	133.7
47.5°	10068.0	7895.5	1046.5	356.6	267.4	199.7	157.0	135.7	122.1	114.4	114.4
50°	11176.6	8329.6	794.6	310.1	236.4	168.6	137.6	122.1	110.5	106.6	104.6
52.5°	12103.0	8455.6	608.5	269.4	207.4	145.3	122.1	110.5	100.8	94.9	94.9
55°	12891.8	8345.2	476.8	226.7	174.4	126.0	108.5	98.8	87.2	81.4	79.5
57.5°	13353.0	7990.5	364.3	188.0	141.5	104.6	94.9	83.3	69.8	60.0	60.0
60°	13585.5	7475.0	279.0	155.1	108.5	83.3	77.5	62.0	48.4	40.7	38.8
62.5°	13306.5	6790.8	211.3	122.1	81.4	62.0	52.3	44.6	31.0	23.3	23.3
63°	13134.0	6593.2	203.5	116.3	75.6	58.1	48.4	40.7	27.2	21.3	19.3
65°	11973.1	5730.7	166.7	93.0	60.0	40.7	33.0	29.1	19.3	9.7	7.7
67.5°	9507.9	4383.8	131.8	69.8	42.6	29.1	19.3	17.4	5.8	0.0	0.0
70°	6428.4	2831.5	102.7	50.4	29.1	17.4	9.7	7.7	1.9	0.0	0.0
72.5°	3352.8	1451.6	79.5	36.8	17.4	11.6	5.8	1.9	0.0	0.0	0.0
75°	1186.1	494.2	58.1	23.3	11.6	5.8	1.9	0.0	0.0	0.0	0.0
77.5°	358.5	184.1	36.8	17.4	7.7	3.9	0.0	0.0	0.0	0.0	0.0
80°	126.0	67.9	21.3	11.6	5.8	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	62.0	33.0	13.5	9.7	5.8	1.9	0.0	0.0	0.0	0.0	0.0
85°	34.9	21.3	11.6	9.7	5.8	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	25.2	15.5	11.6	9.7	7.7	3.9	1.9	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)