

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: P456232

Luminaire Tested: **GALN-SA7C-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33686 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

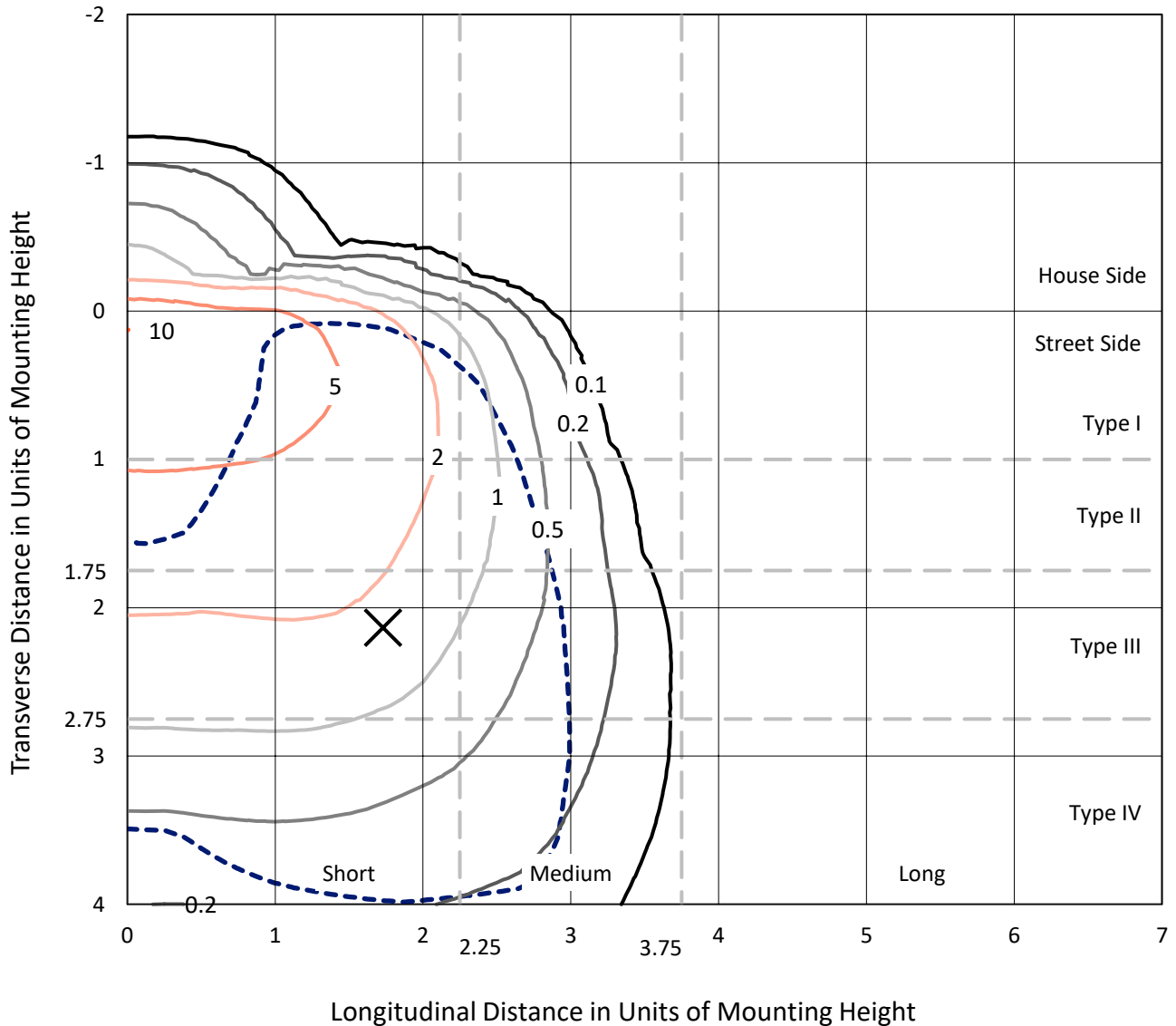
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

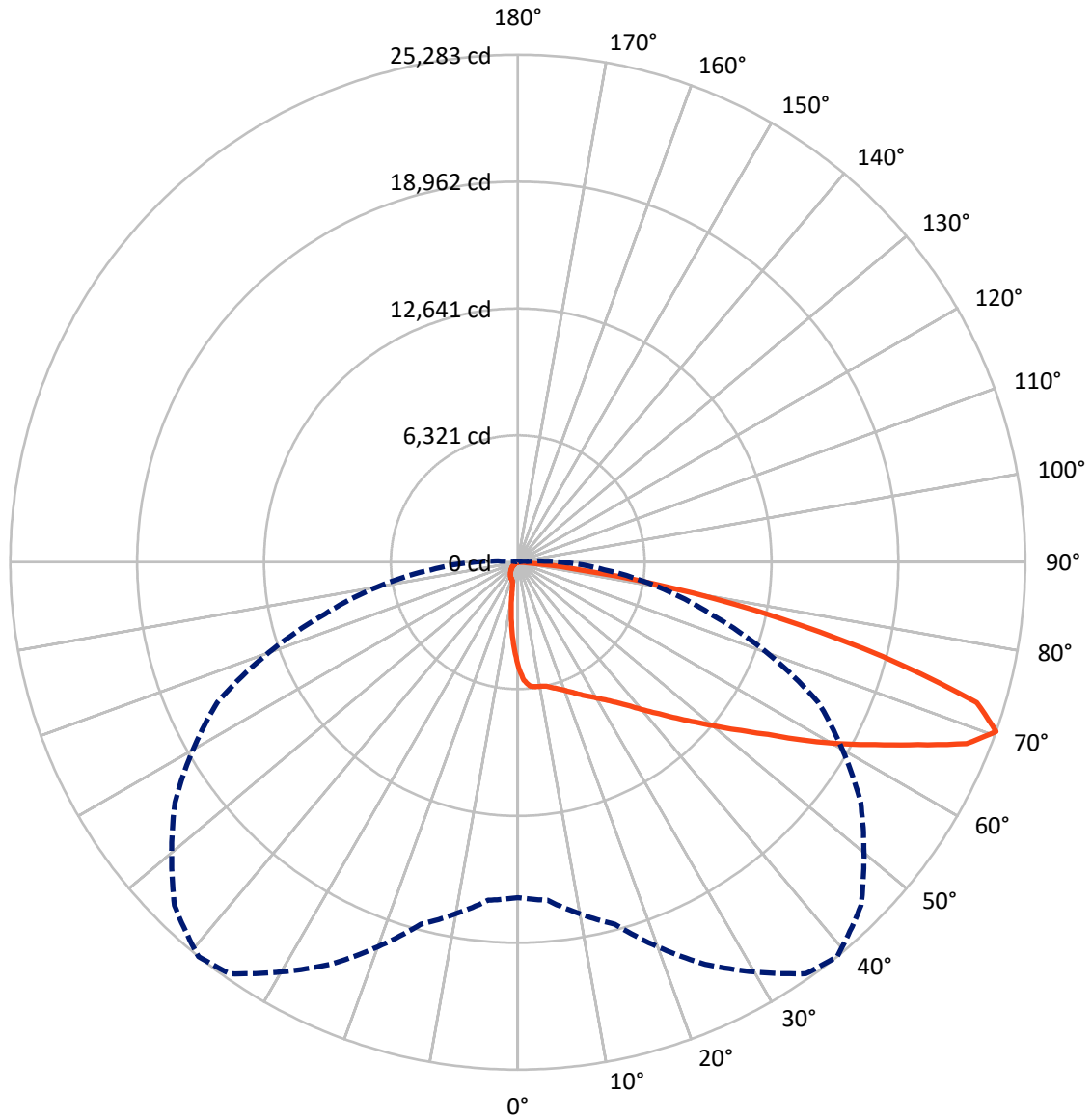
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2196.5	0.0	2196.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	31489.5	0.0	31489.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	33686.0	0.0	33686.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.3	1.3
10°-20°	1165.0	3.5
20°-30°	1951.8	5.8
30°-40°	3027.0	9.0
40°-50°	4796.8	14.2
50°-60°	7031.4	20.9
60°-70°	9012.6	26.8
70°-80°	5663.2	16.8
80°-90°	590.0	1.8
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°	33686.0	100.0
0°-180°	33686.0	100.0



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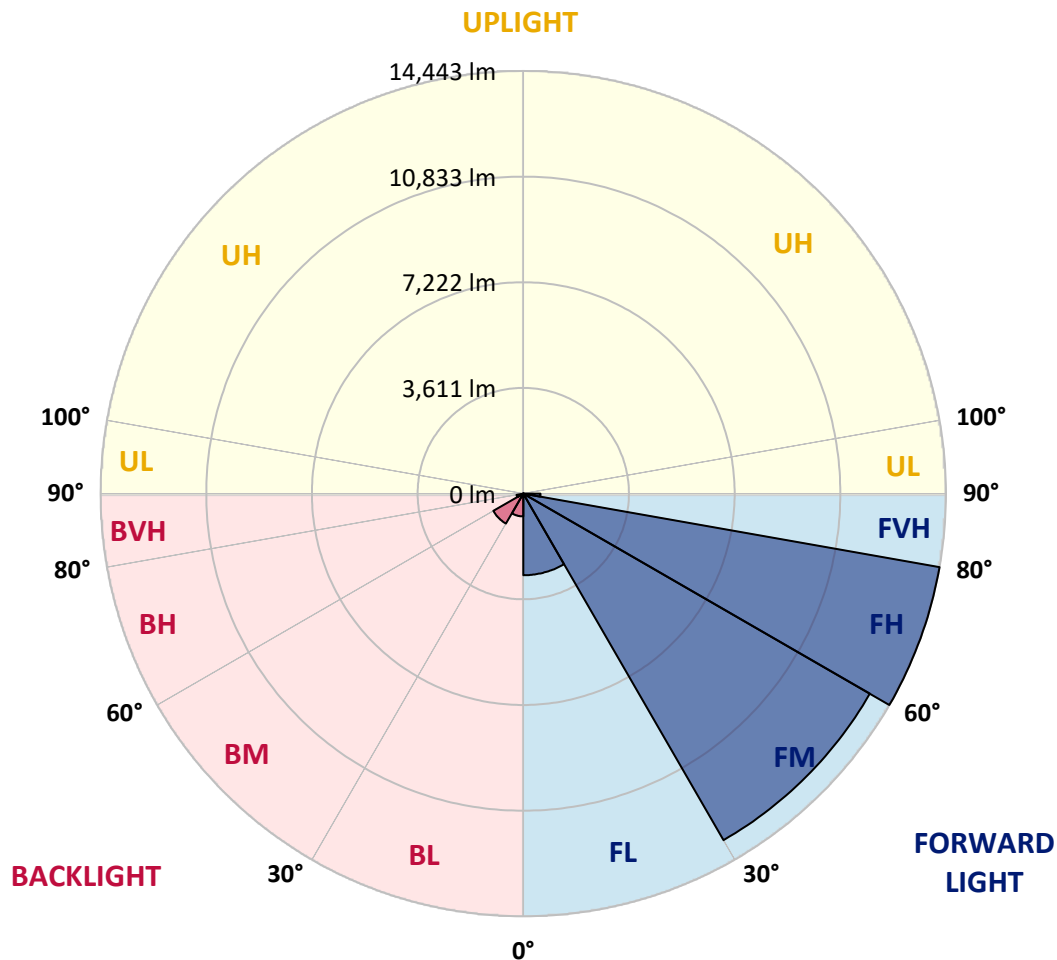
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2787.3	8.3			
FM (30°-60°)	13673.1	40.6			
FH (60°-80°)	14443.5	42.9			G5
FVH (80°-90°)	585.6	1.7			G4/750
BL (0°-30°)	777.8	2.3	B2/1000		
BM (30°-60°)	1182.1	3.5	B2/2500		
BH (60°-80°)	232.3	0.7	B1/500		G1/500
BVH (80°-90°)	4.3	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2
2.5°	6073.3	6053.0	6025.8	5994.1	5903.6	5887.7	5833.4	5718.0	5579.9	5466.7	5310.5
5°	6360.8	6372.1	6351.8	6295.2	6229.5	6191.1	6123.1	5944.3	5765.5	5536.9	5281.1
7.5°	6426.5	6449.1	6424.2	6369.9	6306.5	6265.8	6211.4	6057.5	5849.2	5588.9	5238.1
10°	6419.7	6446.8	6431.0	6381.2	6329.1	6290.7	6231.8	6109.6	5942.1	5668.2	5251.6
12.5°	6408.4	6444.6	6442.3	6417.4	6374.4	6345.0	6308.8	6200.1	6043.9	5783.6	5326.3
15°	6376.7	6421.9	6462.7	6483.1	6485.3	6485.3	6440.1	6324.6	6175.2	5935.3	5423.7
17.5°	6390.3	6442.3	6544.2	6603.0	6643.8	6639.3	6591.7	6467.2	6302.0	6091.5	5525.5
20°	6474.0	6544.2	6686.8	6804.5	6845.2	6831.7	6768.3	6623.4	6435.5	6225.0	5625.1
22.5°	6680.0	6743.4	6922.2	7060.3	7089.7	7053.5	6963.0	6766.0	6596.2	6369.9	5745.1
25°	6987.9	7062.6	7227.8	7331.9	7331.9	7311.6	7184.8	6953.9	6777.3	6571.3	5901.3
27.5°	7361.4	7424.7	7587.7	7680.5	7626.2	7567.3	7440.6	7162.2	6992.4	6824.9	6089.2
30°	7739.4	7780.1	7952.2	7992.9	7936.3	7861.6	7725.8	7447.4	7298.0	7168.9	6360.8
32.5°	8097.0	8185.3	8327.9	8318.9	8241.9	8205.7	8081.2	7784.7	7700.9	7687.3	6741.1
35°	8454.7	8522.6	8649.4	8681.1	8613.1	8606.4	8515.8	8296.2	8298.5	8386.8	7334.2
37.5°	8762.5	8823.7	8973.1	9043.2	9056.8	9090.8	9054.6	8909.7	9115.7	9357.9	8119.7
40°	9020.6	9106.6	9296.8	9419.0	9559.4	9683.9	9690.6	9722.3	10136.6	10553.1	9145.1
42.5°	9222.1	9342.0	9618.2	9844.6	10166.0	10324.5	10451.2	10625.5	11322.7	11945.2	10353.9
45°	9484.7	9622.7	9966.8	10322.2	10824.7	11085.0	11261.6	11727.9	12717.1	13566.0	11594.4
47.5°	9919.3	9991.7	10342.6	10860.9	11521.9	11893.2	12237.2	12943.5	14213.4	14974.0	12626.6
50°	10478.4	10525.9	10790.8	11510.6	12366.3	12855.2	13482.2	14313.0	15766.3	16142.0	13210.6
52.5°	11096.4	11112.2	11311.4	12225.9	13312.5	13928.2	14629.9	15655.3	17031.6	16975.0	13597.7
55°	11813.9	11791.3	11961.1	13002.3	14433.0	15137.0	15954.1	17029.4	18129.5	17565.8	13819.5
57.5°	12635.6	12574.5	12739.8	14032.3	15868.1	16710.2	17540.9	18215.5	18980.6	18061.6	13925.9
60°	13495.8	13373.6	13570.5	15189.0	17559.1	18358.1	19048.5	19229.6	19877.0	18455.5	13742.6
62.5°	14181.7	14184.0	14550.7	16420.4	19297.5	19997.0	20363.7	20526.7	20648.9	18369.4	12778.2
65°	15252.4	15288.6	15874.9	18129.5	21309.9	21916.6	22167.8	21638.1	20682.9	17301.0	11329.5
67.5°	16357.1	16472.5	17545.5	20483.7	23634.7	24123.6	23799.9	21853.2	19759.3	14863.1	8590.5
70°	16717.0	16907.1	18675.0	22104.4	25029.1	25282.6	24187.0	20850.4	16517.8	9937.4	4323.6
72.5°	15318.1	15625.9	18025.4	21513.6	24139.5	23919.9	21640.4	17486.6	10501.0	3773.5	1319.7
75°	10802.1	10937.9	14980.8	17846.5	19415.2	18792.7	16461.2	11272.9	4319.0	1059.4	452.7
77.5°	5577.6	5512.0	8909.7	11841.1	13846.7	13201.5	10779.5	5835.7	1636.6	441.4	280.7
80°	2883.9	2931.4	3855.0	6204.6	8452.4	7777.9	5747.4	2705.0	871.5	244.5	215.0
82.5°	1616.2	1516.6	2216.1	2709.6	3952.3	3098.9	2204.8	1915.0	380.3	147.1	203.7
85°	294.3	307.9	1215.6	1464.6	1371.8	871.5	710.8	1279.0	110.9	81.5	142.6
87.5°	4.5	4.5	235.4	421.0	267.1	122.2	224.1	183.4	22.6	31.7	24.9
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°	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2
2.5°	5231.3	5145.3	4984.5	4826.1	4624.6	4459.4	4348.5	4233.0	4115.3	4124.4	4151.5
5°	5140.7	4991.3	4674.4	4339.4	4018.0	3728.2	3443.0	3187.2	3083.1	2988.0	2992.5
7.5°	5050.2	4839.7	4375.6	3850.5	3363.8	2870.3	2512.6	2218.4	2062.2	1944.5	1910.5
10°	5009.4	4731.0	4101.7	3379.6	2689.2	2150.5	1690.9	1451.0	1265.4	1206.5	1222.4
12.5°	5027.5	4676.7	3855.0	2954.0	2132.3	1498.5	1177.1	1054.9	1014.1	1007.3	1002.8
15°	5061.5	4638.2	3612.8	2483.2	1566.4	1113.7	989.2	966.6	962.0	957.5	959.8
17.5°	5106.8	4604.2	3354.7	2041.8	1202.0	973.4	937.1	925.8	923.6	923.6	923.6
20°	5152.0	4565.8	3067.2	1647.9	1002.8	919.0	896.4	889.6	887.3	887.3	885.1
22.5°	5204.1	4531.8	2775.2	1294.8	923.6	880.6	860.2	855.7	853.4	851.1	851.1
25°	5278.8	4488.8	2465.1	1059.4	873.8	844.3	824.0	819.4	817.2	808.1	810.4
27.5°	5378.4	4457.1	2145.9	914.5	828.5	799.1	785.5	778.7	774.2	767.4	769.6
30°	5514.2	4429.9	1806.4	835.3	776.4	751.5	737.9	733.4	728.9	722.1	722.1
32.5°	5749.6	4441.3	1448.7	771.9	728.9	699.5	685.9	681.4	676.8	670.0	670.0
35°	6102.8	4506.9	1159.0	717.6	672.3	642.9	629.3	629.3	622.5	613.4	611.2
37.5°	6680.0	4674.4	930.4	665.5	618.0	590.8	575.0	570.4	563.6	550.1	547.8
40°	7361.4	4934.7	783.2	613.4	568.2	541.0	527.4	513.8	495.7	482.2	479.9
42.5°	8217.0	5201.8	679.1	561.4	520.6	495.7	479.9	457.3	430.1	412.0	409.7
45°	9108.9	5446.3	608.9	513.8	475.4	455.0	436.9	400.7	366.7	344.1	341.8
47.5°	9774.4	5491.6	552.3	468.6	436.9	416.5	391.6	346.3	301.1	280.7	273.9
50°	10089.0	5272.0	493.5	423.3	398.4	375.8	344.1	292.0	242.2	217.3	212.8
52.5°	10200.0	4891.7	445.9	382.6	359.9	332.8	294.3	235.4	190.1	165.2	163.0
55°	10154.7	4411.8	402.9	344.1	314.6	283.0	244.5	187.9	140.3	120.0	115.4
57.5°	9917.0	3800.7	359.9	305.6	269.4	237.7	194.7	140.3	95.1	77.0	74.7
60°	9276.4	2967.6	316.9	262.6	228.6	194.7	153.9	99.6	58.9	43.0	43.0
62.5°	8194.4	2202.5	276.2	219.6	192.4	156.2	108.7	63.4	31.7	22.6	20.4
65°	6847.5	1625.3	230.9	185.6	160.7	122.2	77.0	38.5	15.8	6.8	4.5
67.5°	4778.5	1002.8	192.4	151.7	131.3	88.3	47.5	15.8	6.8	0.0	0.0
70°	2170.8	477.6	147.1	115.4	99.6	63.4	24.9	9.1	4.5	0.0	0.0
72.5°	674.6	251.3	104.1	83.8	67.9	40.7	13.6	6.8	4.5	0.0	0.0
75°	312.4	160.7	65.6	45.3	38.5	20.4	9.1	4.5	2.3	0.0	0.0
77.5°	233.2	124.5	38.5	24.9	20.4	13.6	6.8	4.5	2.3	0.0	0.0
80°	203.7	63.4	22.6	15.8	11.3	9.1	4.5	2.3	0.0	0.0	0.0
82.5°	183.4	31.7	13.6	9.1	6.8	4.5	2.3	2.3	0.0	0.0	0.0
85°	99.6	18.1	9.1	6.8	4.5	2.3	2.3	0.0	0.0	0.0	0.0
87.5°	18.1	9.1	6.8	4.5	4.5	2.3	2.3	2.3	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)