

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: P457169

Luminaire Tested: **GALN-SA8C-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38012 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

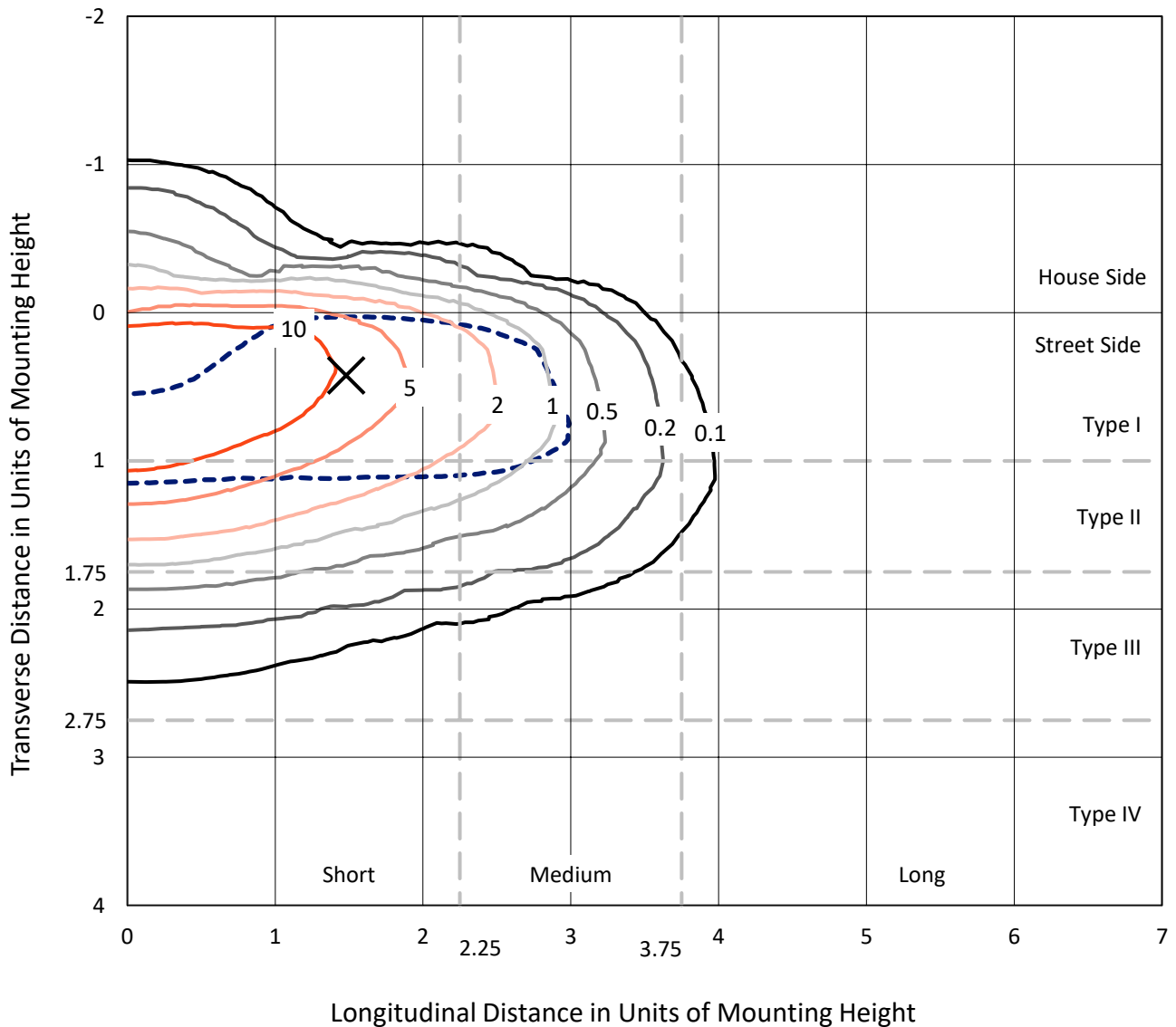
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

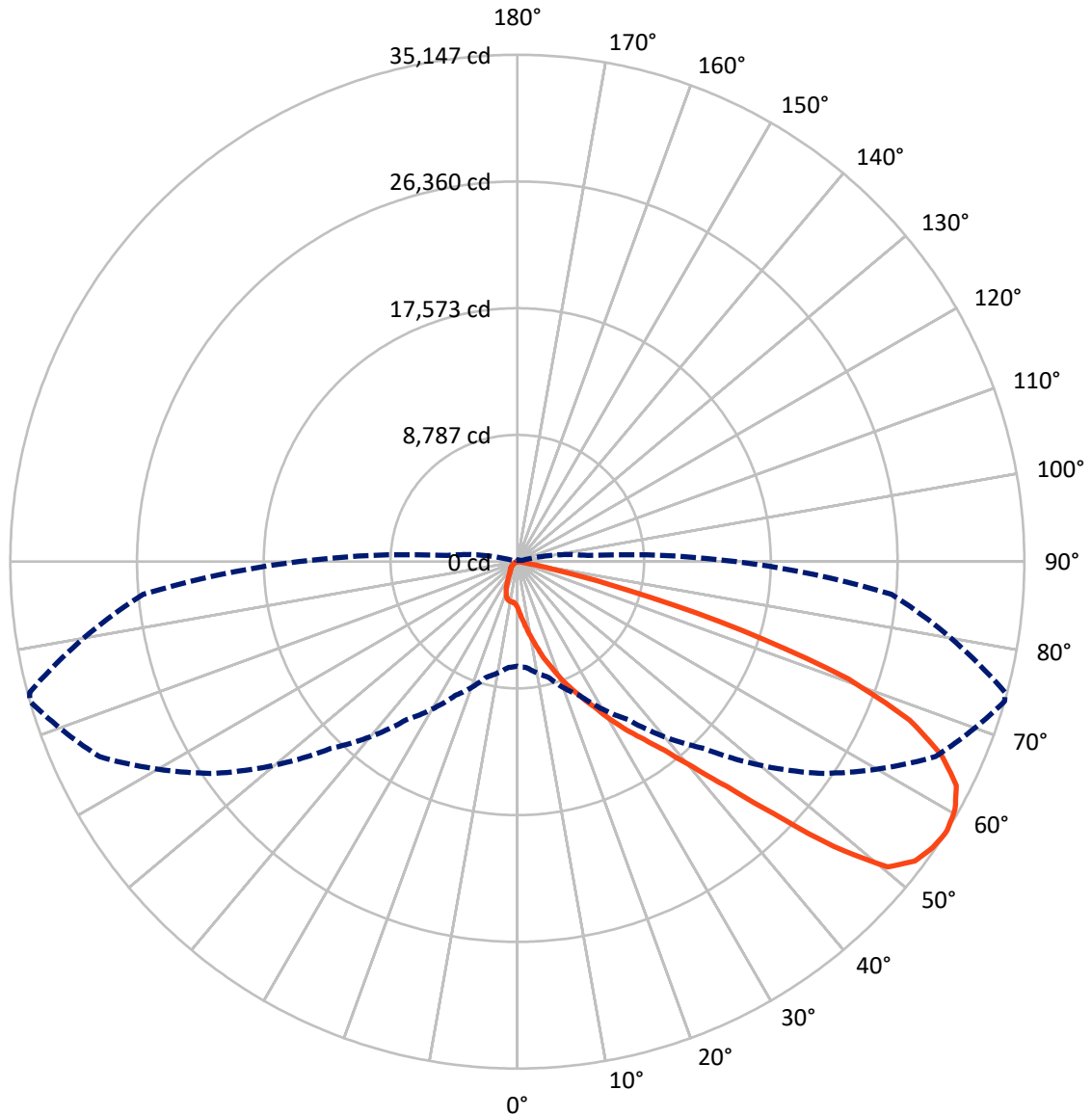
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2192.4	0.0	2192.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	35819.6	0.0	35819.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	38012.0	0.0	38012.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.2	1.0
10°-20°	1514.6	4.0
20°-30°	3240.8	8.5
30°-40°	5956.5	15.7
40°-50°	9131.5	24.0
50°-60°	9659.9	25.4
60°-70°	6308.1	16.6
70°-80°	1723.6	4.5
80°-90°	92.8	0.2
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°	38012.0	100.0
0°-180°	38012.0	100.0

Coefficient of Utilization



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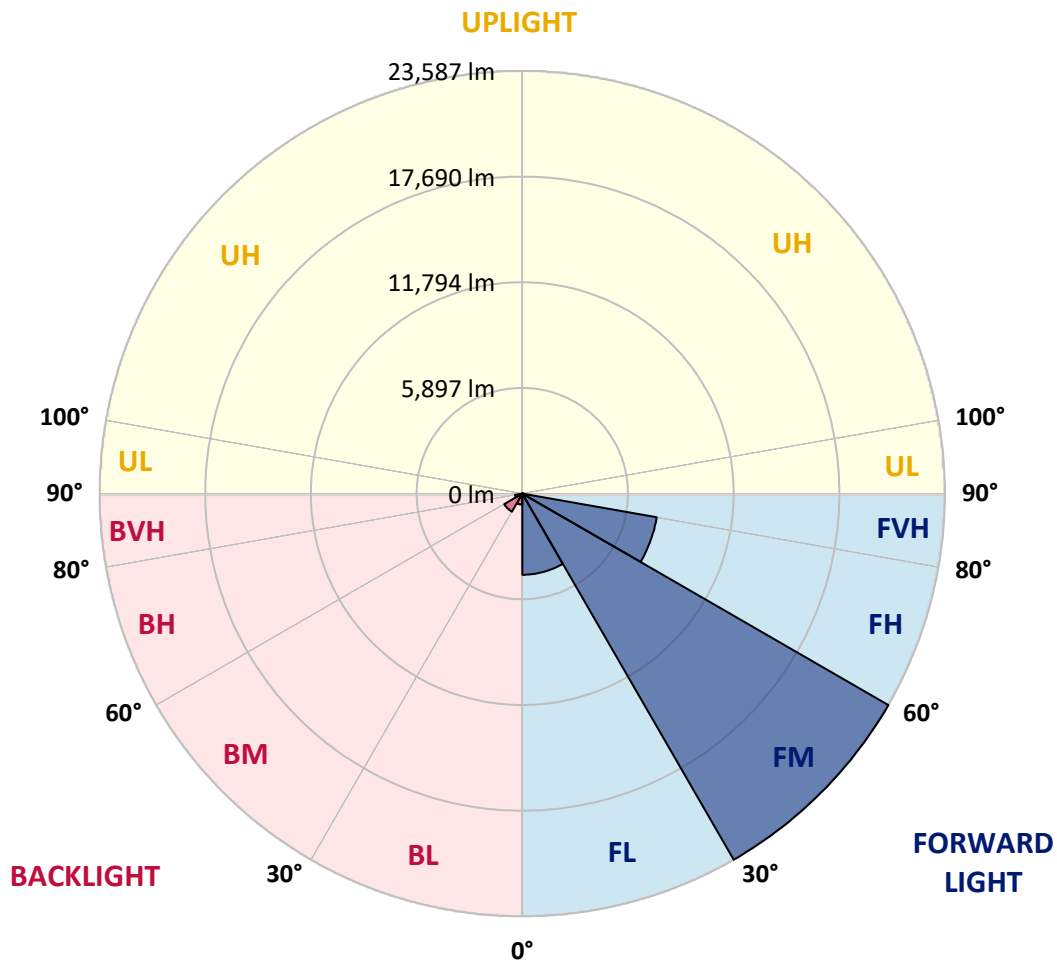
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4527.2	11.9			
FM (30°-60°)	23587.1	62.1			
FH (60°-80°)	7620.1	20.0			G4/12000
FVH (80°-90°)	85.1	0.2			G1/100
BL (0°-30°)	612.4	1.6	B2/1000		
BM (30°-60°)	1160.7	3.1	B2/2500		
BH (60°-80°)	411.6	1.1	B1/500		G1/500
BVH (80°-90°)	7.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5
2.5°	4658.4	4616.4	4532.4	4503.6	4380.2	4188.6	4020.7	3795.0	3616.5	3598.1	3382.9
5°	6238.3	6143.8	6104.5	5915.5	5618.9	5340.8	4863.1	4500.9	4083.6	4052.1	3619.1
7.5°	7760.5	7629.3	7589.9	7411.4	7065.0	6626.7	6007.4	5348.6	4687.3	4626.9	3936.7
10°	8862.8	8881.1	8810.3	8692.2	8411.4	7965.2	7201.5	6301.3	5359.1	5283.0	4293.6
12.5°	9652.7	9650.1	9663.2	9660.6	9511.0	9172.4	8369.4	7332.7	6099.2	5949.6	4703.0
15°	10167.1	10175.0	10214.4	10350.8	10366.6	10156.6	9487.4	8319.5	6957.4	6771.1	5146.5
17.5°	10686.8	10741.9	10804.9	10933.5	11048.9	10964.9	10492.5	9348.3	7734.2	7595.2	5621.6
20°	11544.9	11621.1	11584.3	11663.0	11723.4	11731.3	11366.5	10298.3	8676.4	8442.8	6164.8
22.5°	12917.5	12914.9	12820.4	12678.7	12560.6	12555.4	12224.7	11274.6	9532.0	9306.3	6710.7
25°	14652.3	14660.2	14476.5	14072.3	13778.4	13418.8	13038.3	12130.2	10447.9	10169.7	7285.5
27.5°	16641.6	16591.8	16313.6	15757.2	15174.6	14560.4	14011.9	13124.9	11419.0	11188.0	7944.2
30°	18428.9	18410.5	18085.1	17405.3	16639.0	16022.3	15227.0	14371.5	12676.1	12392.6	8681.7
32.5°	20092.8	20119.0	19667.6	18964.3	18224.2	17512.9	16673.1	15563.0	13909.6	13508.0	9484.8
35°	21391.9	21418.1	20951.0	20365.7	19604.6	19014.1	18213.7	16833.2	15127.3	14788.8	10408.6
37.5°	22084.7	22118.8	21848.5	21407.6	20932.6	20636.0	19890.7	18468.2	16607.5	16402.8	11500.3
40°	22216.0	22255.3	22137.2	22019.1	21992.9	22205.5	21987.6	20394.6	18659.8	18339.6	13127.5
42.5°	21822.3	21874.8	21927.3	22189.7	22725.1	23504.6	24263.0	23008.5	21302.6	20872.2	15116.8
45°	20788.3	20783.0	20990.3	21670.1	22869.4	24533.3	26640.8	26281.2	24903.4	24391.6	17927.6
47.5°	19019.4	18993.1	19441.9	20410.3	22278.9	24722.3	28580.2	30254.6	29498.8	29026.4	20948.3
50°	16324.1	16452.7	17158.6	18510.2	20811.9	24150.2	29178.6	32860.7	33270.1	32768.9	23389.1
52.5°	13166.9	13161.6	14269.1	16103.6	18638.8	22890.4	28761.3	33333.1	34495.7	34112.6	24591.1
55°	9744.6	9812.8	10964.9	12815.2	15817.5	20591.4	27399.2	32847.6	34962.9	34692.6	25383.7
57°	7248.7	7369.5	8293.3	10251.1	13361.1	18316.0	25585.7	31978.9	35146.6	34999.6	26042.4
57.5°	6765.8	6771.1	7671.3	9450.6	12642.0	17442.1	25066.1	31616.7	35141.4	35060.0	26150.0
60°	4165.0	4296.2	4918.2	6387.9	9253.8	13613.0	21583.5	29535.5	34868.4	34986.5	26609.3
62.5°	2493.2	2548.3	2952.5	3850.1	5965.4	9936.2	17662.5	26871.7	34157.2	34516.7	26577.8
65°	1603.5	1616.7	1800.4	2330.5	3729.3	6716.0	13610.4	23352.3	32317.5	32978.8	25538.5
67.5°	1238.7	1259.7	1333.2	1530.1	2162.5	4183.4	9626.5	19596.8	29341.3	30194.3	23019.0
70°	1099.6	1110.1	1136.4	1199.4	1430.3	2362.0	5989.0	15308.4	24331.3	24572.7	18014.2
72.5°	897.6	926.4	1007.8	1028.8	1133.8	1474.9	3333.0	10274.7	16347.7	16408.0	10077.9
75°	695.5	700.7	821.5	881.8	955.3	1015.7	1488.1	5180.7	7852.3	7432.4	3884.2
77.5°	519.6	543.3	598.4	674.5	779.5	727.0	666.6	1952.6	2438.1	2393.5	1128.5
80°	333.3	346.4	417.3	506.5	606.2	475.0	375.3	572.1	535.4	551.1	270.3
82.5°	168.0	170.6	267.7	412.0	385.8	238.8	236.2	233.6	199.5	196.8	126.0
85°	18.4	39.4	173.2	236.2	173.2	78.7	110.2	107.6	105.0	107.6	73.5
87.5°	2.6	2.6	28.9	34.1	23.6	26.2	31.5	34.1	42.0	39.4	31.5
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°	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5
2.5°	3277.9	3173.0	2978.7	2792.4	2653.3	2564.1	2448.6	2406.6	2346.3	2338.4	2309.5
5°	3419.7	3220.2	2881.6	2614.0	2398.7	2236.0	2094.3	1976.2	1881.7	1860.7	1871.2
7.5°	3621.7	3325.2	2852.8	2488.0	2188.8	1910.6	1684.9	1545.8	1446.1	1409.3	1414.6
10°	3850.1	3464.3	2847.5	2354.1	1897.5	1556.3	1309.6	1186.3	1128.5	1107.5	1083.9
12.5°	4120.4	3624.4	2834.4	2146.8	1577.3	1241.4	1065.5	992.0	936.9	921.2	921.2
15°	4424.8	3795.0	2771.4	1889.6	1280.7	1026.2	908.1	850.3	832.0	816.2	816.2
17.5°	4742.4	3962.9	2640.2	1572.0	1062.9	879.2	805.7	771.6	745.3	727.0	727.0
20°	5104.6	4128.3	2430.2	1291.2	897.6	784.7	727.0	687.6	666.6	650.9	645.6
22.5°	5448.4	4262.1	2162.5	1060.3	782.1	706.0	653.5	611.5	590.5	582.6	582.6
25°	5805.3	4343.5	1839.7	876.6	713.8	640.4	582.6	548.5	530.1	524.9	522.3
27.5°	6151.7	4390.7	1556.3	766.3	650.9	580.0	524.9	498.6	480.3	475.0	477.6
30°	6571.6	4398.6	1280.7	687.6	595.7	522.3	472.4	448.8	438.3	433.0	430.4
32.5°	6996.8	4388.1	1076.0	640.4	543.3	472.4	430.4	412.0	404.2	396.3	396.3
35°	7474.4	4333.0	915.9	593.1	493.4	430.4	393.7	377.9	367.4	359.5	356.9
37.5°	8067.6	4304.1	824.1	540.6	448.8	391.0	356.9	341.2	333.3	322.8	320.2
40°	9001.9	4432.7	795.2	493.4	404.2	354.3	322.8	304.4	293.9	283.4	280.8
42.5°	10167.1	4658.4	748.0	446.2	364.8	320.2	288.7	267.7	249.3	236.2	231.0
45°	11676.2	4955.0	674.5	396.3	330.7	283.4	254.6	228.3	204.7	194.2	191.6
47.5°	13258.7	5241.0	608.9	356.9	293.9	251.9	220.5	191.6	170.6	162.7	160.1
50°	14229.8	5298.8	566.9	312.3	257.2	217.8	186.3	160.1	147.0	139.1	139.1
52.5°	14673.3	5206.9	509.1	272.9	223.1	191.6	160.1	139.1	131.2	126.0	123.3
55°	14983.0	5065.2	433.0	236.2	191.6	162.7	141.7	126.0	115.5	110.2	107.6
57°	15164.1	4873.6	375.3	207.3	165.3	141.7	126.0	112.9	102.4	91.9	91.9
57.5°	15171.9	4800.1	359.5	204.7	157.5	136.5	123.3	110.2	97.1	86.6	84.0
60°	14938.4	4296.2	288.7	173.2	126.0	115.5	102.4	86.6	68.2	57.7	55.1
62.5°	14187.8	3655.9	238.8	147.0	102.4	89.2	73.5	65.6	47.2	34.1	34.1
65°	13051.4	2965.6	204.7	118.1	84.0	65.6	49.9	47.2	28.9	15.7	13.1
67.5°	11408.5	2309.5	173.2	97.1	70.9	47.2	34.1	31.5	15.7	5.2	0.0
70°	8692.2	1574.7	144.3	78.7	52.5	34.1	23.6	18.4	10.5	2.6	0.0
72.5°	5010.1	866.1	120.7	60.4	39.4	26.2	18.4	10.5	10.5	0.0	0.0
75°	1789.9	372.7	91.9	44.6	31.5	21.0	13.1	5.2	7.9	2.6	0.0
77.5°	569.5	199.5	60.4	34.1	26.2	15.7	10.5	5.2	5.2	2.6	0.0
80°	168.0	105.0	36.7	28.9	18.4	13.1	7.9	2.6	5.2	2.6	0.0
82.5°	91.9	52.5	28.9	21.0	18.4	10.5	7.9	2.6	2.6	2.6	0.0
85°	47.2	31.5	23.6	21.0	18.4	10.5	7.9	2.6	0.0	2.6	2.6
87.5°	26.2	23.6	23.6	21.0	18.4	13.1	7.9	2.6	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)