

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: P454849

Luminaire Tested: **GALN-SA6A-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454849
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-SA6A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA 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: 18158 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

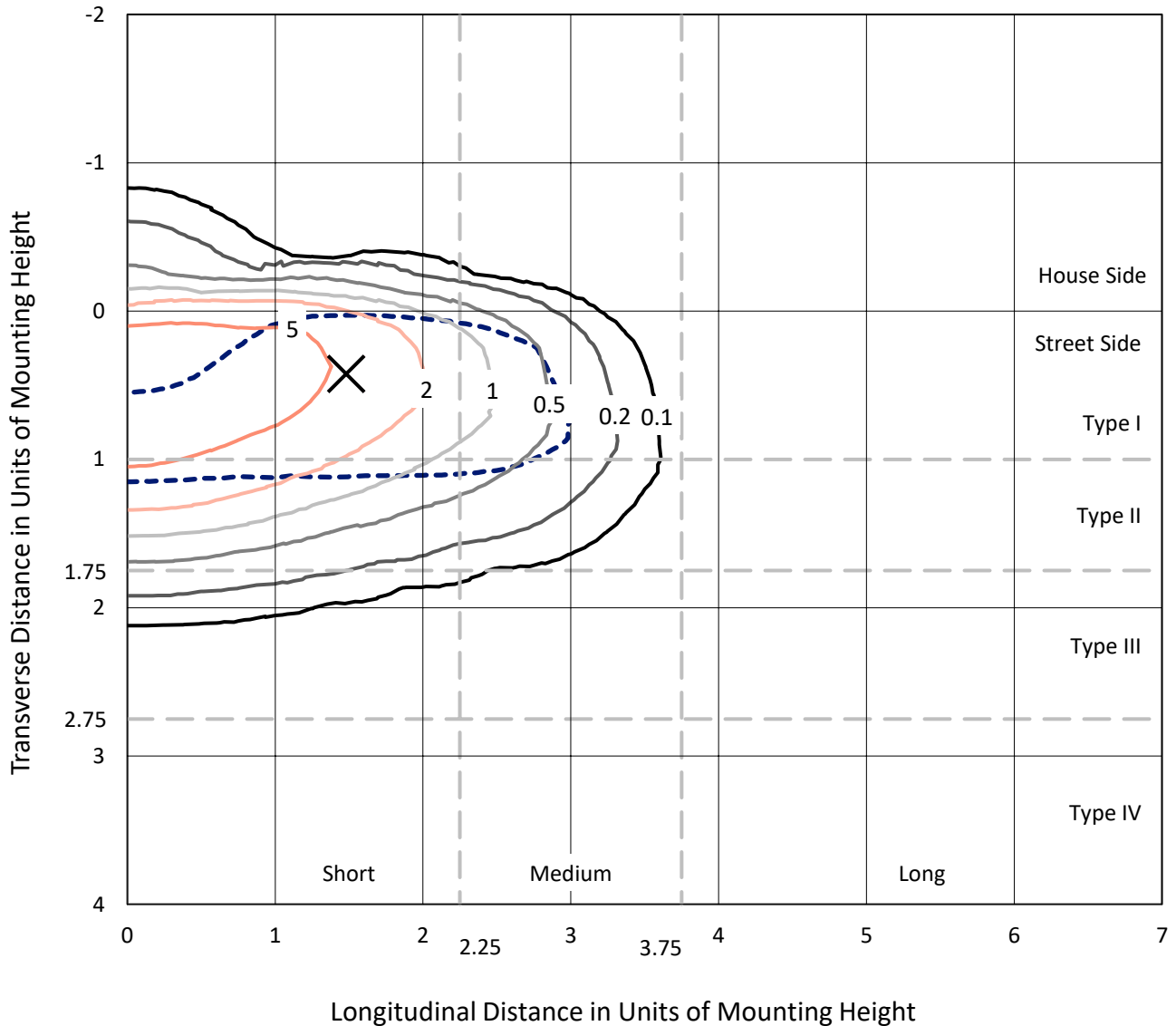
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

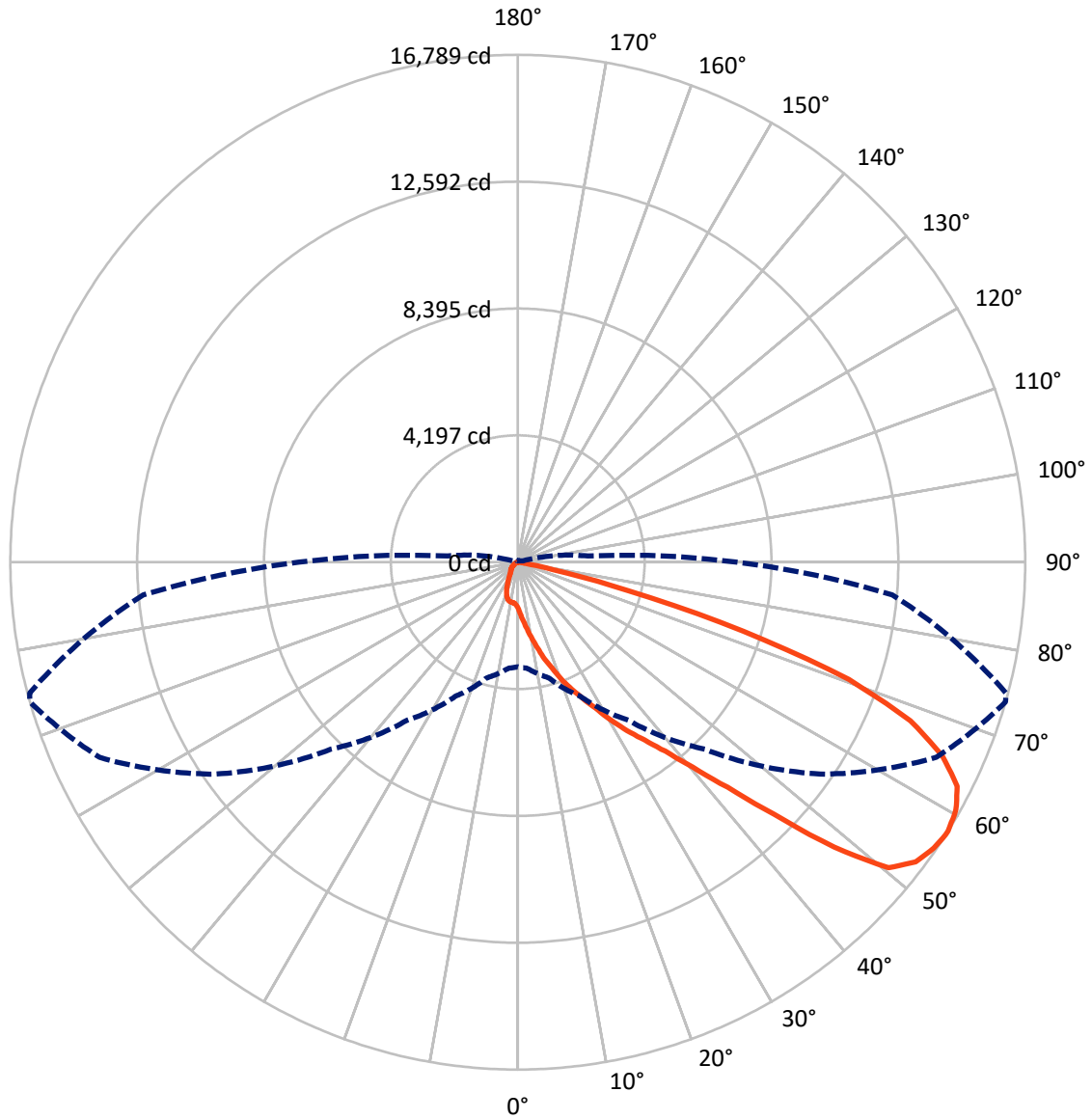
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	1047.3	0.0	1047.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	17110.7	0.0	17110.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	18158.0	0.0	18158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	1.0
10°-20°	723.5	4.0
20°-30°	1548.1	8.5
30°-40°	2845.4	15.7
40°-50°	4362.0	24.0
50°-60°	4614.4	25.4
60°-70°	3013.3	16.6
70°-80°	823.4	4.5
80°-90°	44.3	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°	18158.0	100.0
0°-180°	18158.0	100.0

Coefficient of Utilization



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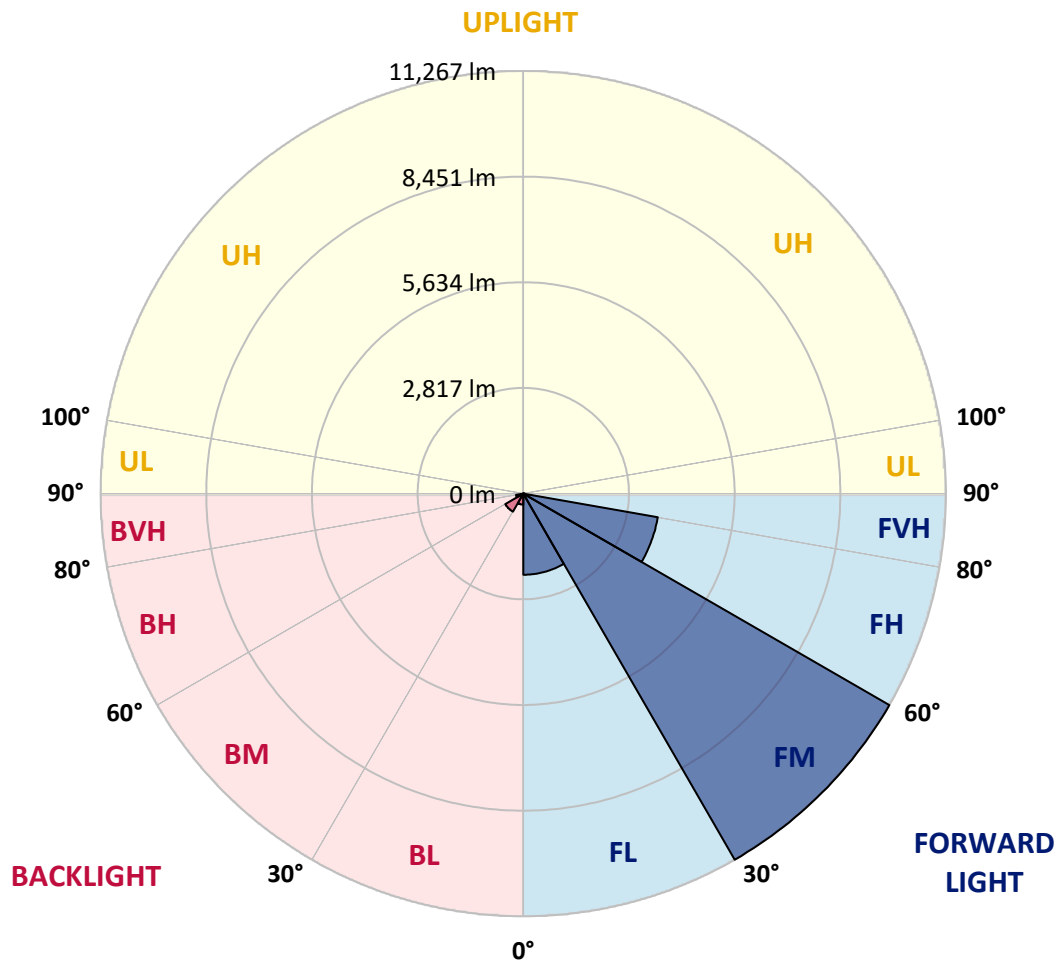
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2162.6	11.9			
FM (30°-60°)	11267.4	62.1			
FH (60°-80°)	3640.1	20.0			G2/5000
FVH (80°-90°)	40.7	0.2			G1/100
BL (0°-30°)	292.5	1.6	B1/500		
BM (30°-60°)	554.5	3.1	B1/1000		
BH (60°-80°)	196.6	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7
2.5°	2225.3	2205.2	2165.1	2151.3	2092.4	2000.9	1920.6	1812.8	1727.6	1718.8	1616.0
5°	2980.0	2934.9	2916.1	2825.8	2684.1	2551.2	2323.1	2150.1	1950.7	1935.7	1728.8
7.5°	3707.1	3644.4	3625.6	3540.4	3374.9	3165.5	2869.7	2555.0	2239.1	2210.2	1880.5
10°	4233.7	4242.4	4208.6	4152.2	4018.0	3804.9	3440.1	3010.1	2560.0	2523.6	2051.0
12.5°	4611.0	4609.8	4616.0	4614.8	4543.3	4381.6	3998.0	3502.8	2913.5	2842.1	2246.6
15°	4856.7	4860.5	4879.3	4944.5	4952.0	4851.7	4532.0	3974.2	3323.5	3234.5	2458.5
17.5°	5105.0	5131.3	5161.4	5222.8	5278.0	5237.9	5012.2	4465.6	3694.6	3628.1	2685.4
20°	5514.9	5551.3	5533.7	5571.3	5600.2	5603.9	5429.7	4919.4	4144.7	4033.1	2944.9
22.5°	6170.6	6169.3	6124.2	6056.5	6000.1	5997.6	5839.6	5385.8	4553.4	4445.5	3205.6
25°	6999.3	7003.0	6915.3	6722.2	6581.8	6410.0	6228.3	5794.5	4990.9	4858.0	3480.2
27.5°	7949.6	7925.7	7792.8	7527.1	7248.8	6955.4	6693.4	6269.6	5454.7	5344.4	3794.9
30°	8803.3	8794.5	8639.1	8314.4	7948.3	7653.7	7273.8	6865.1	6055.3	5919.9	4147.2
32.5°	9598.1	9610.7	9395.0	9059.1	8705.5	8365.8	7964.6	7434.3	6644.5	6452.7	4530.8
35°	10218.7	10231.2	10008.1	9728.5	9365.0	9082.9	8700.5	8041.1	7226.2	7064.5	4972.1
37.5°	10549.7	10566.0	10436.9	10226.2	9999.3	9857.7	9501.6	8822.1	7933.3	7835.5	5493.6
40°	10612.4	10631.2	10574.8	10518.3	10505.8	10607.4	10503.3	9742.3	8913.6	8760.7	6270.9
42.5°	10424.3	10449.4	10474.5	10599.8	10855.6	11227.9	11590.2	10991.0	10176.1	9970.5	7221.2
45°	9930.4	9927.9	10026.9	10351.6	10924.5	11719.4	12726.1	12554.3	11896.1	11651.7	8563.9
47.5°	9085.4	9072.9	9287.2	9749.8	10642.5	11809.6	13652.5	14452.4	14091.3	13865.7	10006.8
50°	7797.9	7859.3	8196.5	8842.2	9941.6	11536.3	13938.4	15697.3	15892.8	15653.4	11172.8
52.5°	6289.7	6287.2	6816.2	7692.6	8903.6	10934.6	13739.0	15922.9	16478.3	16295.3	11746.9
55°	4654.9	4687.5	5237.9	6121.7	7555.9	9836.3	13088.4	15691.0	16701.5	16572.3	12125.6
57°	3462.7	3520.3	3961.6	4896.9	6382.5	8749.4	12222.1	15276.0	16789.2	16719.0	12440.2
57.5°	3232.0	3234.5	3664.5	4514.5	6039.0	8331.9	11973.9	15103.0	16786.7	16747.9	12491.6
60°	1989.6	2052.3	2349.4	3051.4	4420.5	6502.8	10310.2	14108.9	16656.3	16712.8	12711.0
62.5°	1191.0	1217.3	1410.4	1839.1	2849.6	4746.4	8437.2	12836.4	16316.6	16488.3	12696.0
65°	766.0	772.3	860.0	1113.3	1781.5	3208.2	6501.6	11155.2	15437.8	15753.7	12199.5
67.5°	591.7	601.8	636.9	730.9	1033.0	1998.4	4598.5	9361.2	14016.1	14423.5	10996.0
70°	525.3	530.3	542.8	572.9	683.3	1128.3	2860.9	7312.7	11622.8	11738.2	8605.2
72.5°	428.8	442.5	481.4	491.4	541.6	704.6	1592.2	4908.1	7809.1	7838.0	4814.1
75°	332.2	334.7	392.4	421.2	456.3	485.2	710.8	2474.8	3751.0	3550.4	1855.4
77.5°	248.2	259.5	285.8	322.2	372.3	347.3	318.4	932.7	1164.7	1143.4	539.1
80°	159.2	165.5	199.3	242.0	289.6	226.9	179.3	273.3	255.7	263.3	129.1
82.5°	80.2	81.5	127.9	196.8	184.3	114.1	112.8	111.6	95.3	94.0	60.2
85°	8.8	18.8	82.7	112.8	82.7	37.6	52.7	51.4	50.1	51.4	35.1
87.5°	1.3	1.3	13.8	16.3	11.3	12.5	15.0	16.3	20.1	18.8	15.0
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°	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7
2.5°	1565.8	1515.7	1422.9	1333.9	1267.5	1224.8	1169.7	1149.6	1120.8	1117.0	1103.2
5°	1633.5	1538.3	1376.5	1248.7	1145.9	1068.1	1000.4	944.0	898.9	888.9	893.9
7.5°	1730.1	1588.4	1362.7	1188.5	1045.6	912.7	804.9	738.4	690.8	673.2	675.7
10°	1839.1	1654.9	1360.2	1124.5	906.4	743.4	625.6	566.7	539.1	529.1	517.8
12.5°	1968.3	1731.3	1354.0	1025.5	753.5	593.0	509.0	473.9	447.6	440.0	440.0
15°	2113.7	1812.8	1323.9	902.6	611.8	490.2	433.8	406.2	397.4	389.9	389.9
17.5°	2265.4	1893.1	1261.2	751.0	507.7	420.0	384.9	368.6	356.0	347.3	347.3
20°	2438.4	1972.0	1160.9	616.8	428.8	374.8	347.3	328.5	318.4	310.9	308.4
22.5°	2602.6	2036.0	1033.0	506.5	373.6	337.2	312.2	292.1	282.1	278.3	278.3
25°	2773.1	2074.8	878.8	418.7	341.0	305.9	278.3	262.0	253.2	250.7	249.5
27.5°	2938.6	2097.4	743.4	366.1	310.9	277.1	250.7	238.2	229.4	226.9	228.2
30°	3139.2	2101.2	611.8	328.5	284.6	249.5	225.7	214.4	209.4	206.9	205.6
32.5°	3342.3	2096.1	514.0	305.9	259.5	225.7	205.6	196.8	193.1	189.3	189.3
35°	3570.5	2069.8	437.5	283.3	235.7	205.6	188.1	180.5	175.5	171.8	170.5
37.5°	3853.8	2056.0	393.7	258.3	214.4	186.8	170.5	163.0	159.2	154.2	152.9
40°	4300.1	2117.5	379.9	235.7	193.1	169.2	154.2	145.4	140.4	135.4	134.1
42.5°	4856.7	2225.3	357.3	213.1	174.3	152.9	137.9	127.9	119.1	112.8	110.3
45°	5577.6	2366.9	322.2	189.3	158.0	135.4	121.6	109.1	97.8	92.8	91.5
47.5°	6333.6	2503.6	290.9	170.5	140.4	120.4	105.3	91.5	81.5	77.7	76.5
50°	6797.4	2531.2	270.8	149.2	122.9	104.1	89.0	76.5	70.2	66.4	66.4
52.5°	7009.3	2487.3	243.2	130.4	106.6	91.5	76.5	66.4	62.7	60.2	58.9
55°	7157.2	2419.6	206.9	112.8	91.5	77.7	67.7	60.2	55.2	52.7	51.4
57°	7243.7	2328.1	179.3	99.0	79.0	67.7	60.2	53.9	48.9	43.9	43.9
57.5°	7247.5	2293.0	171.8	97.8	75.2	65.2	58.9	52.7	46.4	41.4	40.1
60°	7135.9	2052.3	137.9	82.7	60.2	55.2	48.9	41.4	32.6	27.6	26.3
62.5°	6777.4	1746.4	114.1	70.2	48.9	42.6	35.1	31.3	22.6	16.3	16.3
65°	6234.5	1416.7	97.8	56.4	40.1	31.3	23.8	22.6	13.8	7.5	6.3
67.5°	5449.7	1103.2	82.7	46.4	33.8	22.6	16.3	15.0	7.5	2.5	0.0
70°	4152.2	752.2	69.0	37.6	25.1	16.3	11.3	8.8	5.0	1.3	0.0
72.5°	2393.3	413.7	57.7	28.8	18.8	12.5	8.8	5.0	5.0	0.0	0.0
75°	855.0	178.0	43.9	21.3	15.0	10.0	6.3	2.5	3.8	1.3	0.0
77.5°	272.0	95.3	28.8	16.3	12.5	7.5	5.0	2.5	2.5	1.3	0.0
80°	80.2	50.1	17.6	13.8	8.8	6.3	3.8	1.3	2.5	1.3	0.0
82.5°	43.9	25.1	13.8	10.0	8.8	5.0	3.8	1.3	1.3	1.3	0.0
85°	22.6	15.0	11.3	10.0	8.8	5.0	3.8	1.3	0.0	1.3	1.3
87.5°	12.5	11.3	11.3	10.0	8.8	6.3	3.8	1.3	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)