

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: P455413

Luminaire Tested: **GALN-SA6C-760-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455413  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-760-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34157 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

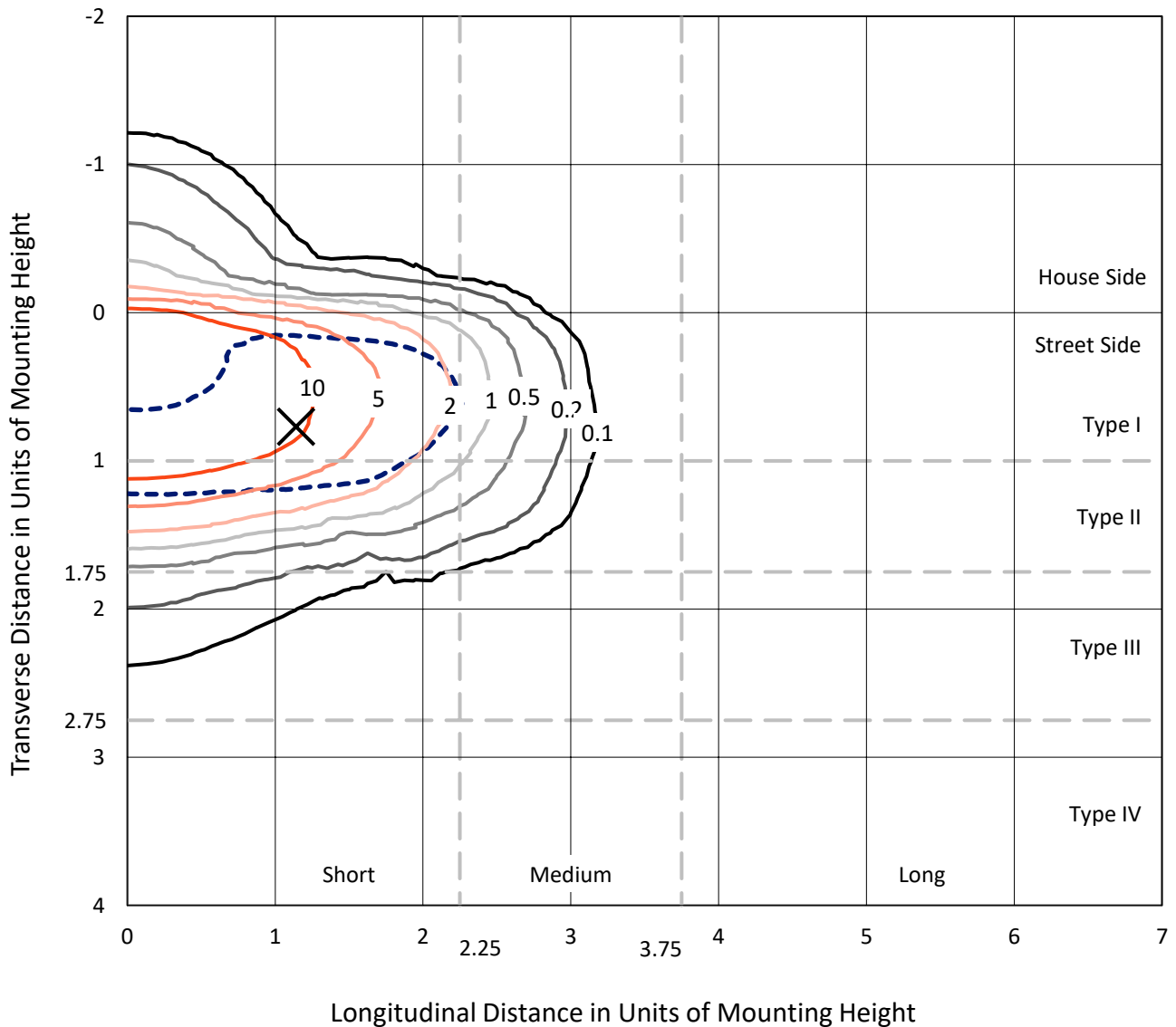
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

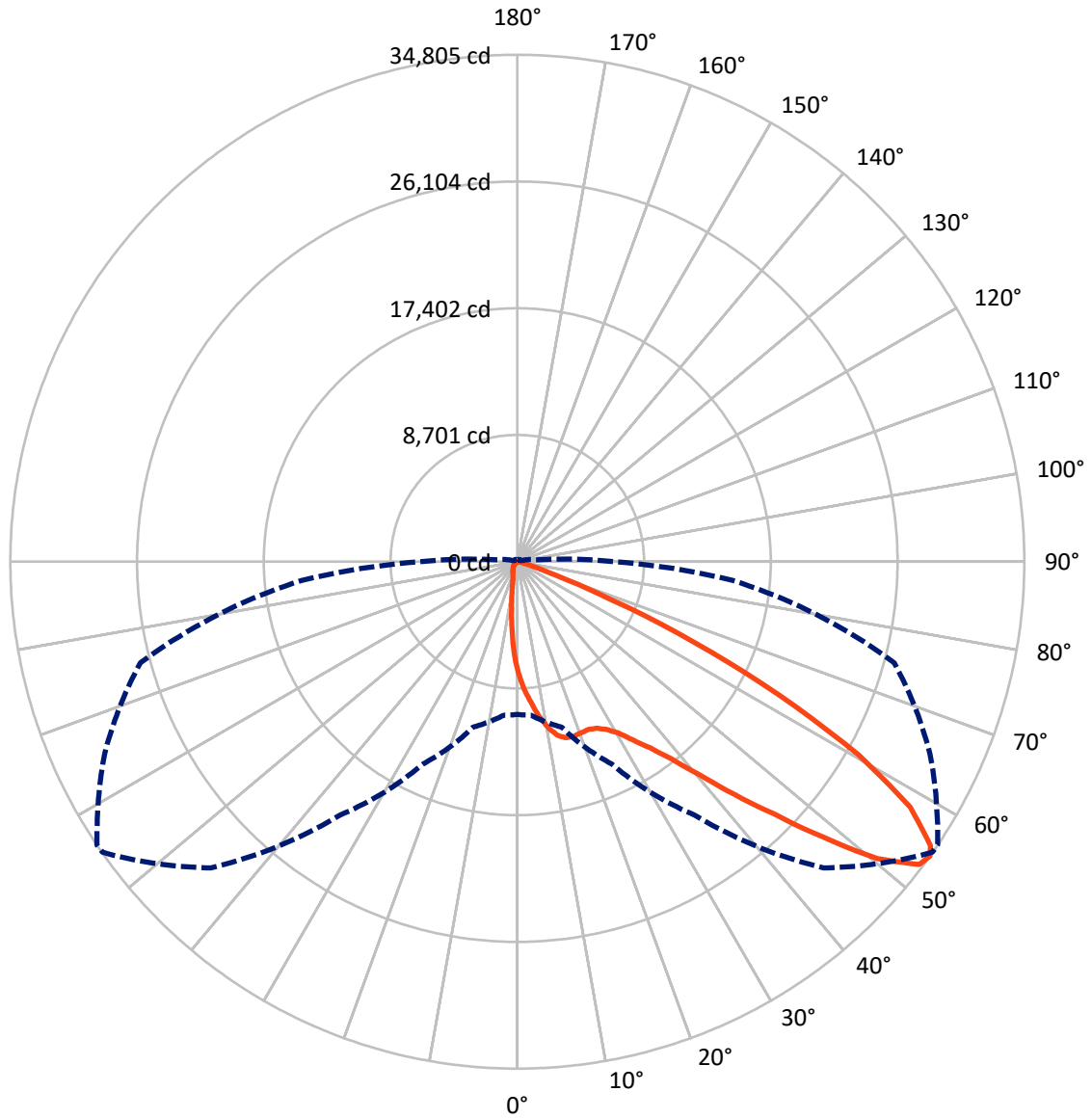
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1615.2	0.0	1615.2
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	32541.8	0.0	32541.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	34157.0	0.0	34157.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	670.6	2.0
10°-20°	1812.8	5.3
20°-30°	3139.6	9.2
30°-40°	5419.5	15.9
40°-50°	9224.2	27.0
50°-60°	9128.5	26.7
60°-70°	4166.4	12.2
70°-80°	535.1	1.6
80°-90°	60.3	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°	34157.0	100.0
0°-180°	34157.0	100.0

**Coefficient of Utilization**

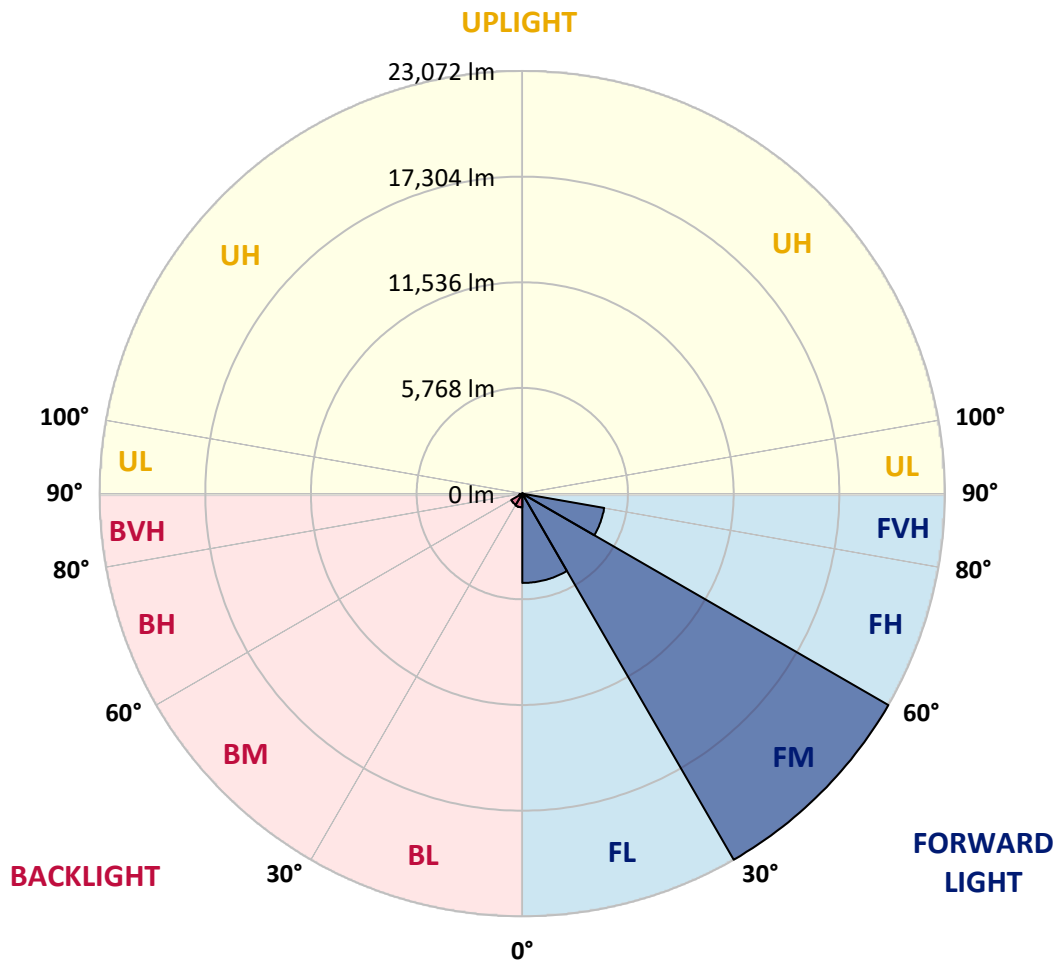


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4876.0	14.3			
FM (30°-60°)	23072.2	67.5			
FH (60°-80°)	4539.8	13.3			G2/5000
FVH (80°-90°)	53.8	0.2			G1/100
BL (0°-30°)	747.0	2.2	B2/1000		
BM (30°-60°)	700.0	2.0	B1/1000		
BH (60°-80°)	161.7	0.5	B1/500		G1/500
BVH (80°-90°)	6.5	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7588.7	7588.7	7588.7	7588.7	7588.7	7588.7	7588.7	7588.7	7588.7	7588.7	7588.7
2.5°	9644.3	9577.5	9485.3	9413.9	9245.6	9003.7	8747.9	8747.9	8501.3	8157.9	7807.6
5°	11123.8	11080.0	10990.1	10805.8	10616.8	10278.0	9764.1	9674.3	9234.1	8611.9	7957.4
7.5°	11725.3	11746.0	11750.6	11702.2	11612.4	11278.2	10768.9	10706.7	10003.8	9169.6	8153.3
10°	11149.1	11250.5	11349.6	11550.1	11833.6	11914.2	11626.2	11561.7	10870.3	9734.2	8365.3
12.5°	10291.9	10347.2	10402.5	10718.2	11287.4	11939.6	12241.5	12239.2	11653.8	10296.5	8634.9
15°	9893.2	9941.6	9946.2	10086.8	10579.9	11529.4	12504.2	12538.8	12418.9	10990.1	8925.3
17.5°	9976.2	10015.3	9983.1	10017.6	10275.7	11077.7	12474.2	12589.5	13038.8	11656.1	9188.0
20°	10517.7	10593.8	10469.3	10372.5	10450.9	10957.9	12372.8	12534.2	13476.7	12306.0	9427.7
22.5°	11490.2	11531.7	11375.0	11110.0	10971.7	11209.1	12345.2	12504.2	13850.0	12838.3	9566.0
25°	12571.0	12557.2	12384.4	12087.1	11796.7	11716.1	12527.2	12670.1	14158.8	13317.7	9607.4
27.5°	13651.8	13693.3	13402.9	13034.2	12686.2	12476.5	12935.1	13041.1	14506.8	13863.8	9658.1
30°	14907.8	14841.0	14555.2	14133.5	13734.8	13442.1	13591.9	13621.9	14986.1	14587.5	9791.8
32.5°	16541.7	16357.3	16037.0	15299.5	15013.8	14518.3	14555.2	14592.1	15569.2	15304.2	9953.1
35°	18758.6	18749.4	18122.6	17129.3	16433.4	15818.1	15656.7	15686.7	16451.8	16368.8	10310.3
37.5°	21427.2	21464.1	20749.7	19749.5	18468.2	17491.1	17159.3	17163.9	17793.0	17839.1	10854.2
40°	23600.3	23697.1	23270.8	22595.6	21330.4	19802.5	19244.8	19194.1	19678.1	19620.5	11630.8
42.5°	24536.0	24625.8	24784.8	25019.9	24323.9	23063.4	21747.5	21816.7	21964.1	21560.9	12501.9
45°	24077.4	24220.2	24844.8	26296.6	26951.1	26527.0	24957.7	24715.7	24091.2	23669.5	13377.6
47.5°	22166.9	22514.9	23558.9	25976.3	28266.9	29700.3	28580.4	28260.0	26220.5	25208.9	13935.3
50°	19025.9	19046.7	20500.8	23591.1	27584.8	31702.9	32279.1	32039.4	28204.7	26073.1	14216.4
52.5°	13792.4	14246.4	15578.4	19157.3	24630.4	31398.8	34636.6	34537.5	30251.1	26515.5	14622.0
54°	10485.5	10573.0	11757.5	15308.8	21235.9	29728.0	34781.7	34804.8	31267.4	26782.8	14861.7
55°	8595.8	8386.1	9630.5	13041.1	18919.9	28250.8	34307.0	34417.6	31723.7	26921.1	15039.1
57.5°	4074.3	4076.7	5028.4	6878.9	11849.7	21936.5	31405.7	31797.4	31774.4	27158.5	15585.3
60°	2062.5	2076.4	2286.1	3175.6	5853.4	14582.8	25967.1	26900.4	29329.3	27193.0	15765.1
62.5°	1442.6	1426.5	1391.9	1527.9	2463.5	7411.3	19332.4	20143.6	24918.5	25877.2	15193.5
65°	1235.2	1200.6	1103.9	1083.1	1244.4	2952.1	12041.0	13363.8	19025.9	22406.6	13566.6
67.5°	1055.5	1041.6	954.1	901.1	880.3	1285.9	6212.9	6908.9	13004.3	16106.1	10275.7
70°	896.4	889.5	836.5	769.7	712.1	769.7	2304.5	2855.3	7247.6	8671.8	4848.7
72.5°	728.2	735.1	744.4	659.1	599.2	546.2	984.0	1145.3	3032.7	3099.5	1696.1
75°	638.3	631.4	631.4	573.8	500.1	405.6	541.6	583.0	928.7	861.9	394.1
77.5°	449.4	433.2	507.0	472.4	417.1	288.1	308.8	327.2	384.9	329.5	184.4
80°	311.1	311.1	324.9	424.0	375.6	209.7	189.0	202.8	228.1	195.9	106.0
82.5°	175.1	179.8	212.0	225.8	218.9	140.6	124.4	126.7	152.1	133.7	66.8
85°	20.7	34.6	122.1	119.8	89.9	62.2	69.1	71.4	94.5	83.0	39.2
87.5°	2.3	4.6	25.3	32.3	23.0	25.3	25.3	25.3	32.3	36.9	27.7
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°	7588.7	7588.7	7588.7	7588.7	7588.7	7588.7	7588.7	7588.7	7588.7	7588.7	7588.7
2.5°	7618.7	7443.5	7026.4	6542.5	6233.7	5731.3	5307.3	5000.8	4924.7	4777.2	4821.0
5°	7609.4	7245.3	6395.0	5496.2	4537.6	3823.2	3290.8	2871.4	2687.0	2564.9	2479.6
7.5°	7614.1	7044.8	5680.6	4249.5	3104.2	2403.6	1910.4	1654.6	1484.1	1412.7	1421.9
10°	7627.9	6819.0	4851.0	3147.9	2094.8	1553.2	1251.3	1129.2	1071.6	1062.4	1060.1
12.5°	7660.1	6572.4	4058.2	2336.8	1465.7	1129.2	1014.0	972.5	954.1	954.1	947.1
15°	7694.7	6300.5	3399.1	1737.6	1129.2	970.2	917.2	896.4	884.9	884.9	882.6
17.5°	7694.7	5987.1	2783.8	1348.1	972.5	891.8	850.4	822.7	813.5	813.5	811.2
20°	7646.3	5623.0	2237.7	1085.4	882.6	818.1	776.6	746.7	735.1	730.5	728.2
22.5°	7478.1	5136.7	1781.4	933.3	808.9	753.6	700.6	666.0	656.8	652.2	654.5
25°	7178.5	4588.3	1410.4	820.4	742.0	675.2	629.1	603.8	594.6	594.6	596.9
27.5°	6869.7	4014.4	1117.7	735.1	661.4	601.5	564.6	548.5	546.2	553.1	555.4
30°	6583.9	3438.3	905.7	666.0	590.0	539.3	513.9	509.3	509.3	511.6	513.9
32.5°	6265.9	2933.6	758.2	606.1	532.3	488.6	474.7	474.7	479.3	479.3	483.9
35°	6065.4	2500.4	666.0	548.5	488.6	451.7	442.5	444.8	451.7	460.9	465.5
37.5°	5957.1	2154.7	606.1	502.4	447.1	421.7	412.5	417.1	433.2	449.4	451.7
40°	5966.3	1894.3	557.7	463.2	414.8	387.2	380.2	394.1	410.2	426.3	428.6
42.5°	6067.7	1700.7	511.6	417.1	387.2	348.0	345.7	359.5	366.4	382.5	384.9
45°	6187.6	1560.1	463.2	368.7	336.5	301.9	304.2	315.7	324.9	350.3	354.9
47.5°	6224.4	1463.4	407.9	313.4	276.5	265.0	267.3	274.2	292.7	315.7	318.0
50°	6265.9	1403.4	354.9	265.0	235.1	232.8	235.1	239.7	251.2	260.4	258.1
52.5°	6443.4	1401.1	311.1	230.4	200.5	205.1	207.4	205.1	195.9	182.1	177.4
54°	6609.3	1408.0	290.4	214.3	184.4	191.3	189.0	177.4	154.4	140.6	133.7
55°	6743.0	1415.0	278.8	202.8	175.1	177.4	179.8	156.7	126.7	112.9	108.3
57.5°	7005.7	1398.8	251.2	177.4	154.4	145.2	142.9	103.7	69.1	59.9	55.3
60°	6874.3	1262.9	228.1	152.1	131.4	117.5	96.8	57.6	34.6	25.3	25.3
62.5°	6358.1	1071.6	202.8	124.4	108.3	89.9	50.7	32.3	16.1	9.2	6.9
65°	5687.5	901.1	182.1	99.1	85.3	57.6	27.7	20.7	6.9	0.0	0.0
67.5°	4228.7	668.3	154.4	78.4	64.5	36.9	18.4	11.5	2.3	0.0	0.0
70°	1958.8	407.9	131.4	59.9	46.1	27.7	13.8	6.9	0.0	0.0	0.0
72.5°	562.3	255.8	108.3	43.8	32.3	23.0	11.5	4.6	2.3	0.0	0.0
75°	195.9	205.1	80.7	32.3	25.3	16.1	9.2	4.6	2.3	0.0	0.0
77.5°	117.5	165.9	50.7	27.7	20.7	13.8	9.2	4.6	2.3	2.3	0.0
80°	66.8	110.6	32.3	23.0	18.4	11.5	6.9	4.6	2.3	2.3	0.0
82.5°	36.9	53.0	25.3	20.7	16.1	11.5	6.9	4.6	2.3	2.3	2.3
85°	30.0	27.7	20.7	18.4	13.8	9.2	6.9	2.3	0.0	0.0	0.0
87.5°	23.0	18.4	18.4	18.4	13.8	9.2	6.9	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)