

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: P453209

Luminaire Tested: **GALN-SA4B-727-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453209  
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-SA4B-727-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 800mA 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: 15424 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

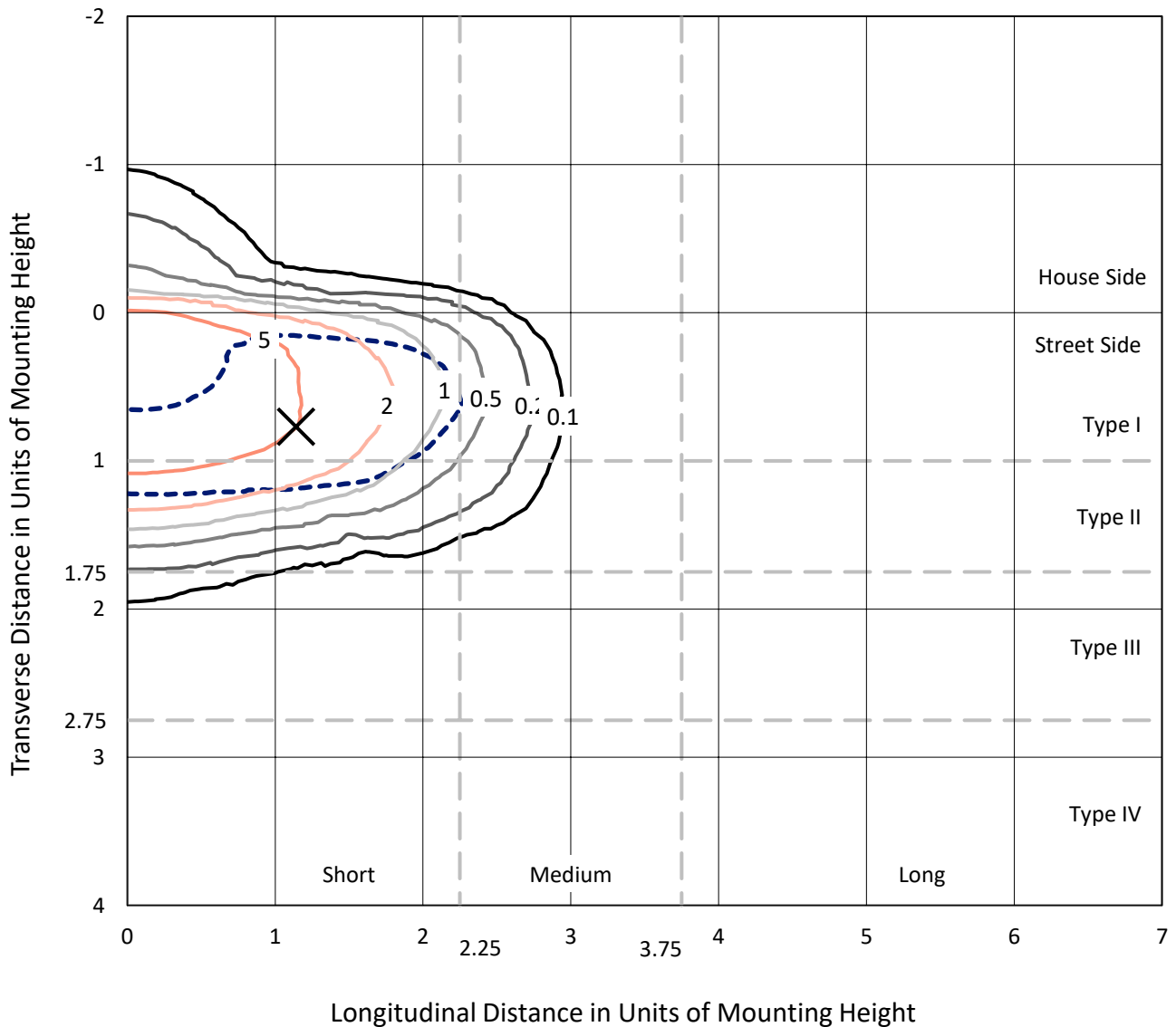
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

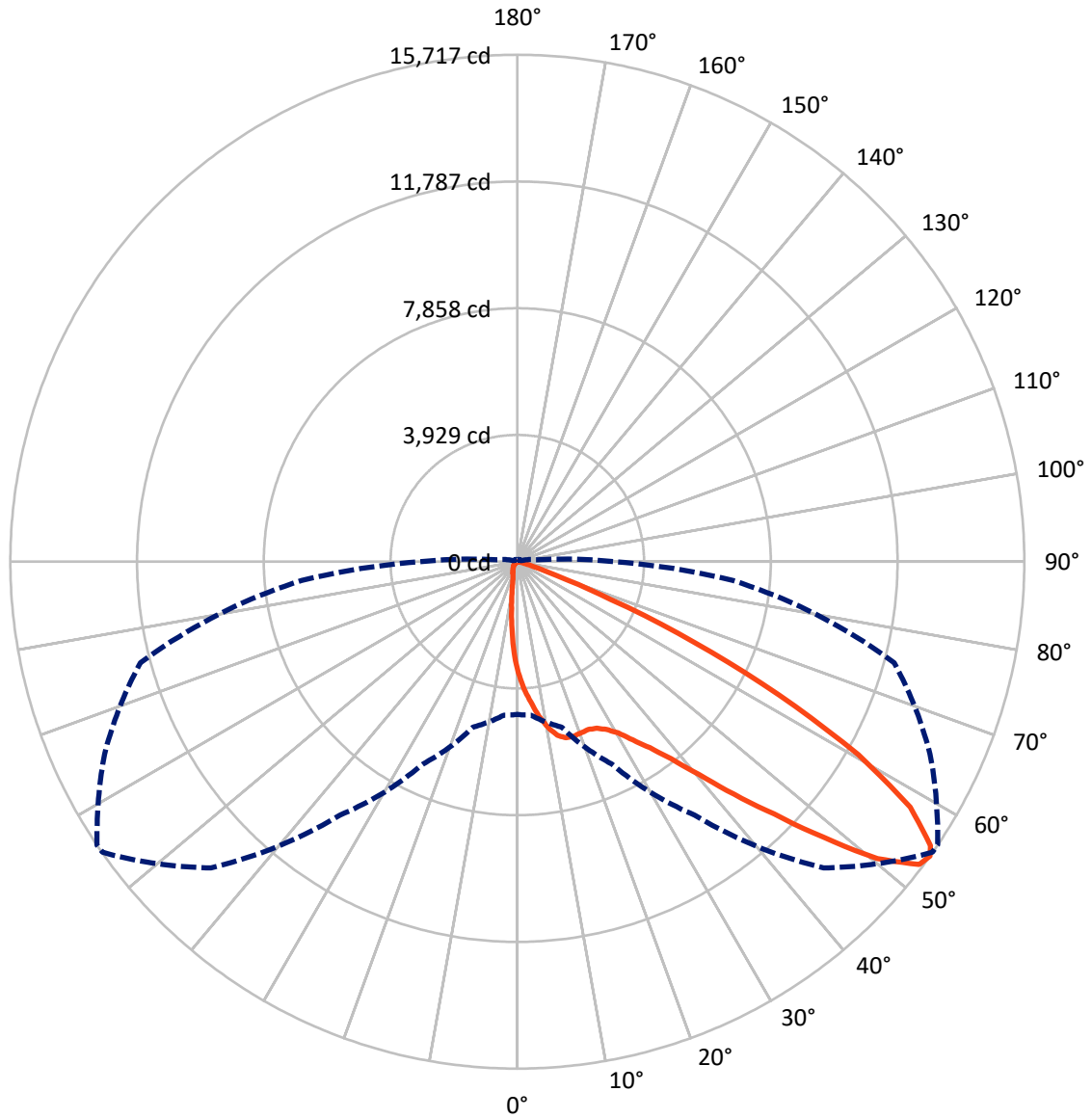
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	729.4	0.0	729.4
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	14694.6	0.0	14694.6
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	15424.0	0.0	15424.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.8	2.0
10°-20°	818.6	5.3
20°-30°	1417.7	9.2
30°-40°	2447.2	15.9
40°-50°	4165.3	27.0
50°-60°	4122.1	26.7
60°-70°	1881.4	12.2
70°-80°	241.6	1.6
80°-90°	27.2	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°	15424.0	100.0
0°-180°	15424.0	100.0

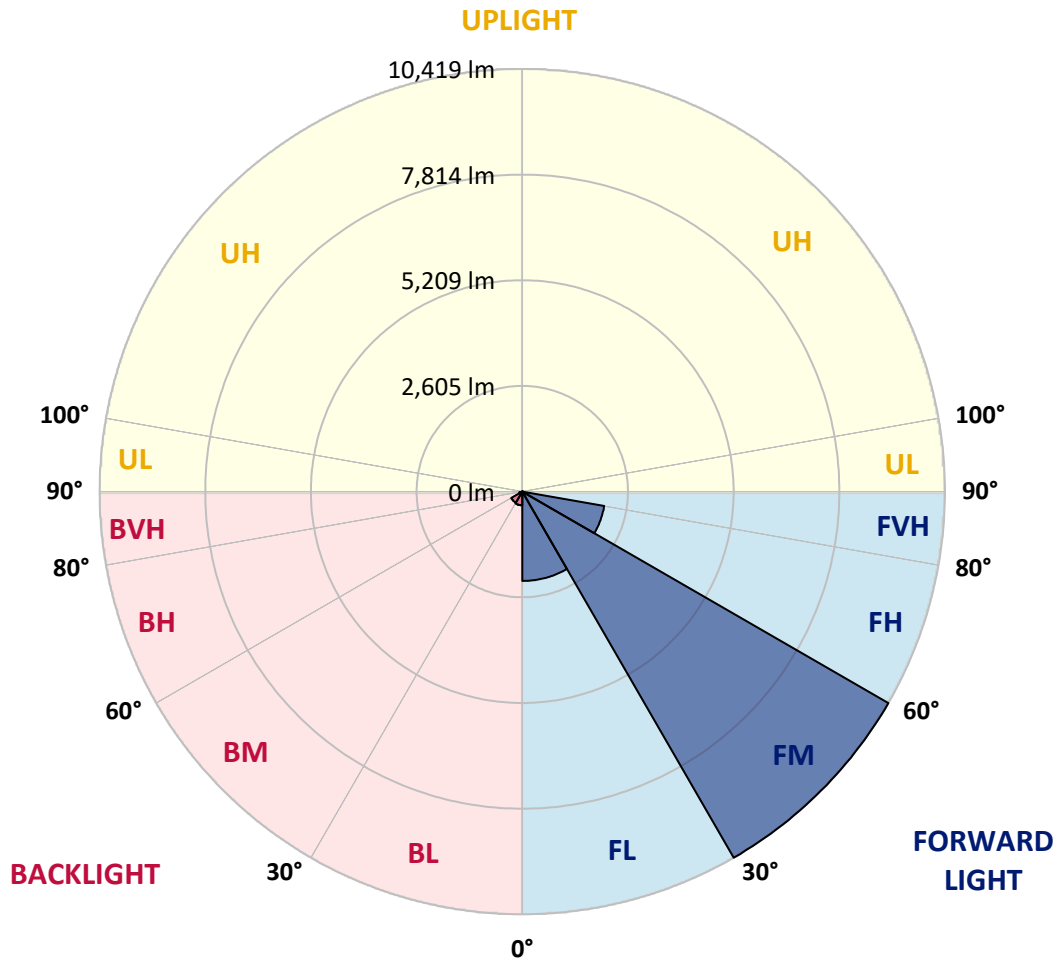


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2201.8	14.3			
FM (30°-60°)	10418.5	67.5			
FH (60°-80°)	2050.0	13.3			G2/5000
FVH (80°-90°)	24.3	0.2			G1/100
BL (0°-30°)	337.3	2.2	B1/500		
BM (30°-60°)	316.1	2.0	B1/1000		
BH (60°-80°)	73.0	0.5	B0/110		G0/110
BVH (80°-90°)	2.9	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°	56°	65°	75°	85°
0°	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8
2.5°	4355.0	4324.8	4283.2	4250.9	4175.0	4065.7	3950.2	3950.2	3838.9	3683.8	3525.6
5°	5023.1	5003.3	4962.7	4879.5	4794.1	4641.2	4409.1	4368.5	4169.8	3888.8	3593.3
7.5°	5294.7	5304.1	5306.1	5284.3	5243.7	5092.8	4862.8	4834.7	4517.3	4140.6	3681.7
10°	5034.5	5080.3	5125.1	5215.6	5343.6	5380.0	5249.9	5220.8	4908.6	4395.6	3777.5
12.5°	4647.4	4672.4	4697.4	4839.9	5097.0	5391.5	5527.8	5526.7	5262.4	4649.5	3899.2
15°	4467.4	4489.2	4491.3	4554.8	4777.5	5206.2	5646.4	5662.0	5607.9	4962.7	4030.3
17.5°	4504.9	4522.5	4508.0	4523.6	4640.1	5002.3	5632.9	5684.9	5887.8	5263.5	4149.0
20°	4749.4	4783.7	4727.5	4683.8	4719.2	4948.2	5587.1	5659.9	6085.6	5556.9	4257.2
22.5°	5188.5	5207.3	5136.5	5016.8	4954.4	5061.6	5574.6	5646.4	6254.1	5797.3	4319.6
25°	5676.6	5670.4	5592.3	5458.1	5326.9	5290.5	5656.8	5721.3	6393.6	6013.8	4338.4
27.5°	6164.6	6183.4	6052.3	5885.8	5728.6	5633.9	5841.0	5888.9	6550.7	6260.4	4361.2
30°	6731.8	6701.6	6572.6	6382.1	6202.1	6070.0	6137.6	6151.1	6767.2	6587.1	4421.6
32.5°	7469.6	7386.3	7241.7	6908.7	6779.7	6555.9	6572.6	6589.2	7030.4	6910.8	4494.4
35°	8470.7	8466.5	8183.5	7734.9	7420.7	7142.8	7070.0	7083.5	7429.0	7391.5	4655.7
37.5°	9675.7	9692.4	9369.8	8918.1	8339.5	7898.3	7748.5	7750.6	8034.6	8055.5	4901.3
40°	10657.0	10700.7	10508.2	10203.3	9632.0	8942.1	8690.2	8667.3	8885.9	8859.9	5252.0
42.5°	11079.5	11120.1	11191.9	11298.0	10983.8	10414.5	9820.4	9851.6	9918.2	9736.1	5645.4
45°	10872.4	10936.9	11218.9	11874.5	12170.1	11978.6	11269.9	11160.7	10878.7	10688.2	6040.8
47.5°	10009.7	10166.9	10638.3	11729.9	12764.3	13411.5	12905.8	12761.2	11840.2	11383.4	6292.6
50°	8591.4	8600.7	9257.4	10652.9	12456.2	14315.8	14576.0	14467.8	12736.2	11773.6	6419.6
52.5°	6228.1	6433.1	7034.6	8650.7	11122.2	14178.5	15640.6	15595.8	13660.2	11973.4	6602.7
54°	4734.8	4774.4	5309.3	6912.9	9589.3	13424.0	15706.1	15716.5	14119.2	12094.1	6711.0
55°	3881.5	3786.8	4348.8	5888.9	8543.5	12757.0	15491.7	15541.7	14325.2	12156.6	6791.1
57.5°	1839.8	1840.9	2270.6	3106.3	5350.9	9905.7	14181.6	14358.5	14348.1	12263.7	7037.7
60°	931.4	937.6	1032.3	1434.0	2643.2	6585.1	11725.7	12147.2	13244.0	12279.3	7118.9
62.5°	651.4	644.1	628.5	689.9	1112.4	3346.6	8729.8	9096.1	11252.2	11685.1	6860.8
65°	557.8	542.2	498.5	489.1	561.9	1333.0	5437.3	6034.6	8591.4	10118.0	6126.1
67.5°	476.6	470.4	430.8	406.9	397.5	580.7	2805.5	3119.8	5872.2	7272.9	4640.1
70°	404.8	401.7	377.7	347.6	321.6	347.6	1040.6	1289.3	3272.8	3915.9	2189.5
72.5°	328.8	332.0	336.1	297.6	270.6	246.6	444.3	517.2	1369.5	1399.6	765.9
75°	288.3	285.1	285.1	259.1	225.8	183.1	244.5	263.3	419.4	389.2	177.9
77.5°	202.9	195.6	228.9	213.3	188.4	130.1	139.4	147.8	173.8	148.8	83.2
80°	140.5	140.5	146.7	191.5	169.6	94.7	85.3	91.6	103.0	88.5	47.9
82.5°	79.1	81.2	95.7	102.0	98.9	63.5	56.2	57.2	68.7	60.4	30.2
85°	9.4	15.6	55.2	54.1	40.6	28.1	31.2	32.3	42.7	37.5	17.7
87.5°	1.0	2.1	11.4	14.6	10.4	11.4	11.4	11.4	14.6	16.6	12.5
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°	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8
2.5°	3440.3	3361.2	3172.9	2954.3	2814.9	2588.0	2396.6	2258.2	2223.8	2157.2	2177.0
5°	3436.1	3271.7	2887.7	2481.9	2049.0	1726.4	1486.0	1296.6	1213.4	1158.2	1119.7
7.5°	3438.2	3181.2	2565.1	1918.9	1401.7	1085.4	862.7	747.2	670.2	637.9	642.1
10°	3444.5	3079.2	2190.5	1421.5	945.9	701.4	565.1	509.9	483.9	479.7	478.7
12.5°	3459.0	2967.9	1832.5	1055.2	661.8	509.9	457.9	439.1	430.8	430.8	427.7
15°	3474.6	2845.1	1534.9	784.6	509.9	438.1	414.2	404.8	399.6	399.6	398.6
17.5°	3474.6	2703.5	1257.1	608.8	439.1	402.7	384.0	371.5	367.3	367.3	366.3
20°	3452.8	2539.1	1010.4	490.1	398.6	369.4	350.7	337.2	332.0	329.9	328.8
22.5°	3376.8	2319.5	804.4	421.5	365.3	340.3	316.3	300.7	296.6	294.5	295.5
25°	3241.5	2071.9	636.9	370.5	335.1	304.9	284.1	272.6	268.5	268.5	269.5
27.5°	3102.1	1812.8	504.7	332.0	298.7	271.6	255.0	247.7	246.6	249.7	250.8
30°	2973.1	1552.6	409.0	300.7	266.4	243.5	232.1	230.0	230.0	231.0	232.1
32.5°	2829.5	1324.7	342.4	273.7	240.4	220.6	214.4	214.4	216.4	216.4	218.5
35°	2738.9	1129.1	300.7	247.7	220.6	204.0	199.8	200.8	204.0	208.1	210.2
37.5°	2690.0	973.0	273.7	226.9	201.9	190.4	186.3	188.4	195.6	202.9	204.0
40°	2694.2	855.4	251.8	209.2	187.3	174.8	171.7	177.9	185.2	192.5	193.6
42.5°	2740.0	768.0	231.0	188.4	174.8	157.1	156.1	162.3	165.5	172.7	173.8
45°	2794.1	704.5	209.2	166.5	151.9	136.3	137.4	142.6	146.7	158.2	160.3
47.5°	2810.7	660.8	184.2	141.5	124.9	119.7	120.7	123.8	132.2	142.6	143.6
50°	2829.5	633.7	160.3	119.7	106.1	105.1	106.1	108.2	113.4	117.6	116.5
52.5°	2909.6	632.7	140.5	104.1	90.5	92.6	93.7	92.6	88.5	82.2	80.1
54°	2984.5	635.8	131.1	96.8	83.2	86.4	85.3	80.1	69.7	63.5	60.4
55°	3044.9	638.9	125.9	91.6	79.1	80.1	81.2	70.8	57.2	51.0	48.9
57.5°	3163.5	631.7	113.4	80.1	69.7	65.6	64.5	46.8	31.2	27.1	25.0
60°	3104.2	570.3	103.0	68.7	59.3	53.1	43.7	26.0	15.6	11.4	11.4
62.5°	2871.1	483.9	91.6	56.2	48.9	40.6	22.9	14.6	7.3	4.2	3.1
65°	2568.3	406.9	82.2	44.7	38.5	26.0	12.5	9.4	3.1	0.0	0.0
67.5°	1909.5	301.8	69.7	35.4	29.1	16.6	8.3	5.2	1.0	0.0	0.0
70°	884.5	184.2	59.3	27.1	20.8	12.5	6.2	3.1	0.0	0.0	0.0
72.5°	253.9	115.5	48.9	19.8	14.6	10.4	5.2	2.1	1.0	0.0	0.0
75°	88.5	92.6	36.4	14.6	11.4	7.3	4.2	2.1	1.0	0.0	0.0
77.5°	53.1	74.9	22.9	12.5	9.4	6.2	4.2	2.1	1.0	1.0	0.0
80°	30.2	49.9	14.6	10.4	8.3	5.2	3.1	2.1	1.0	1.0	0.0
82.5°	16.6	23.9	11.4	9.4	7.3	5.2	3.1	2.1	1.0	1.0	1.0
85°	13.5	12.5	9.4	8.3	6.2	4.2	3.1	1.0	0.0	0.0	0.0
87.5°	10.4	8.3	8.3	8.3	6.2	4.2	3.1	1.0	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)