

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: P452355

Luminaire Tested: **GALN-SA3B-740-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452355  
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-SA3B-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 800mA 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: 13600 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

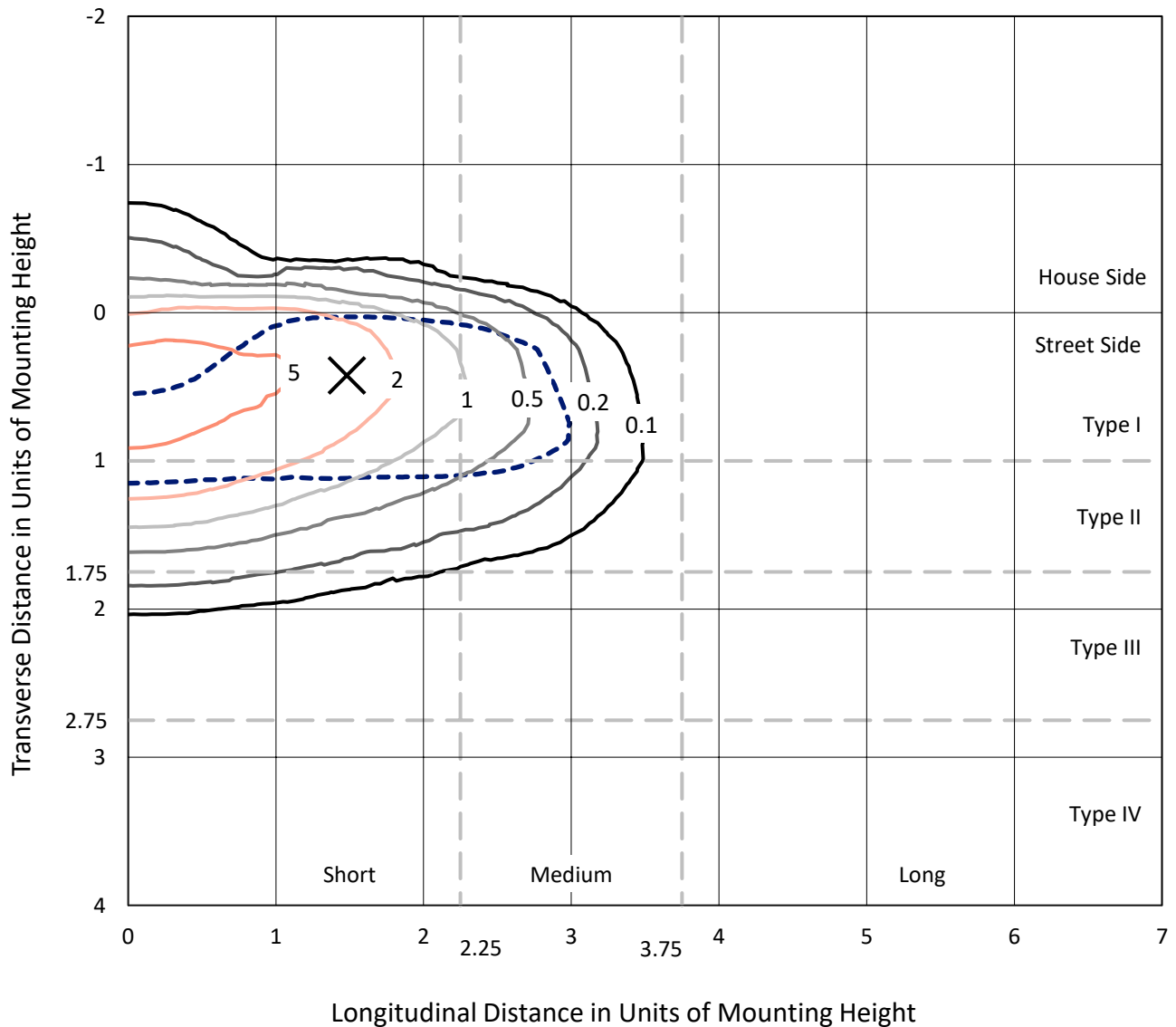
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

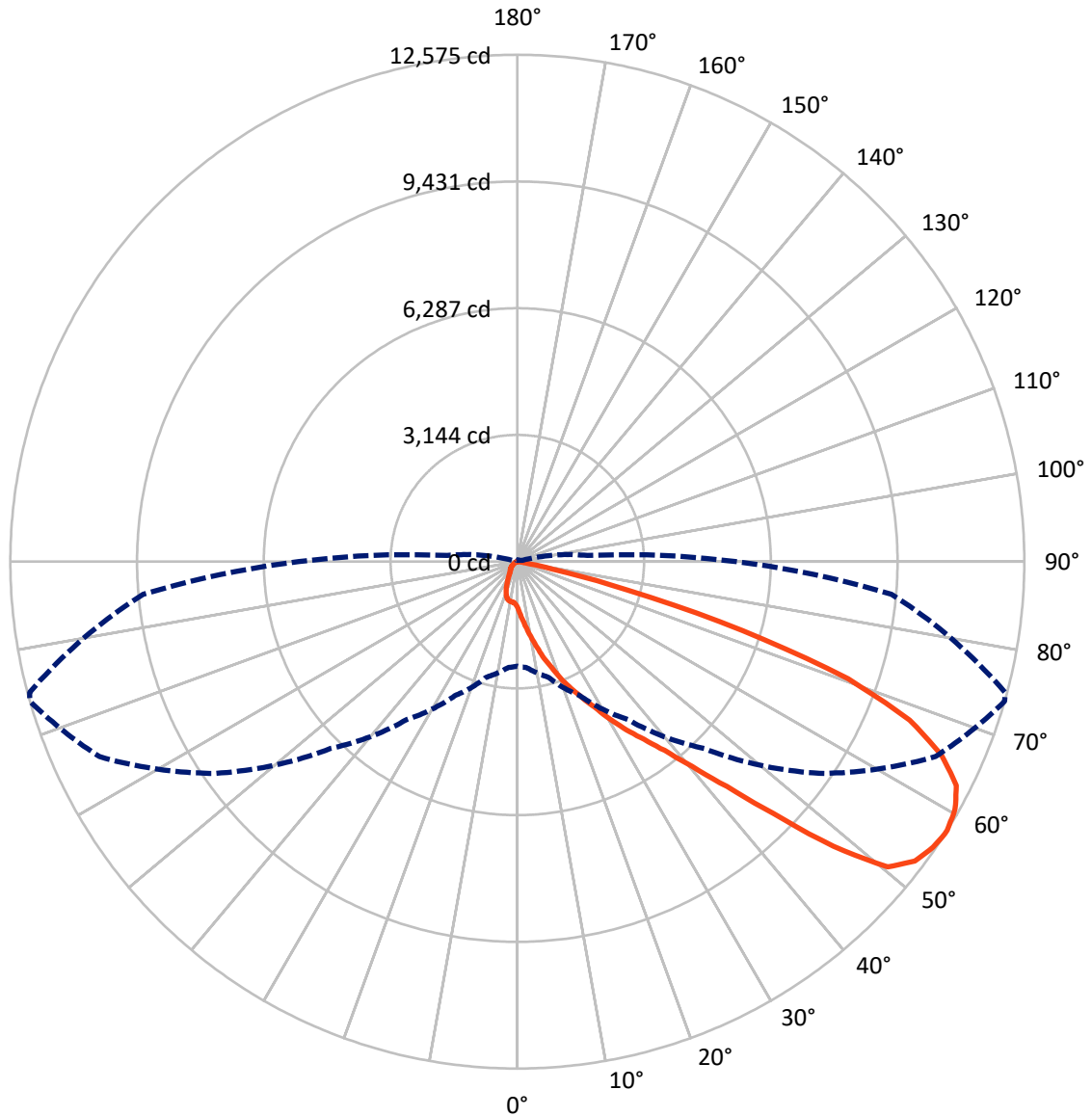
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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
<b>House Side</b>	Lumens	784.4	0.0	784.4
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	12815.6	0.0	12815.6
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	13600.0	0.0	13600.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.5	1.0
10°-20°	541.9	4.0
20°-30°	1159.5	8.5
30°-40°	2131.1	15.7
40°-50°	3267.1	24.0
50°-60°	3456.1	25.4
60°-70°	2256.9	16.6
70°-80°	616.7	4.5
80°-90°	33.2	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°	13600.0	100.0
0°-180°	13600.0	100.0

**Coefficient of Utilization**



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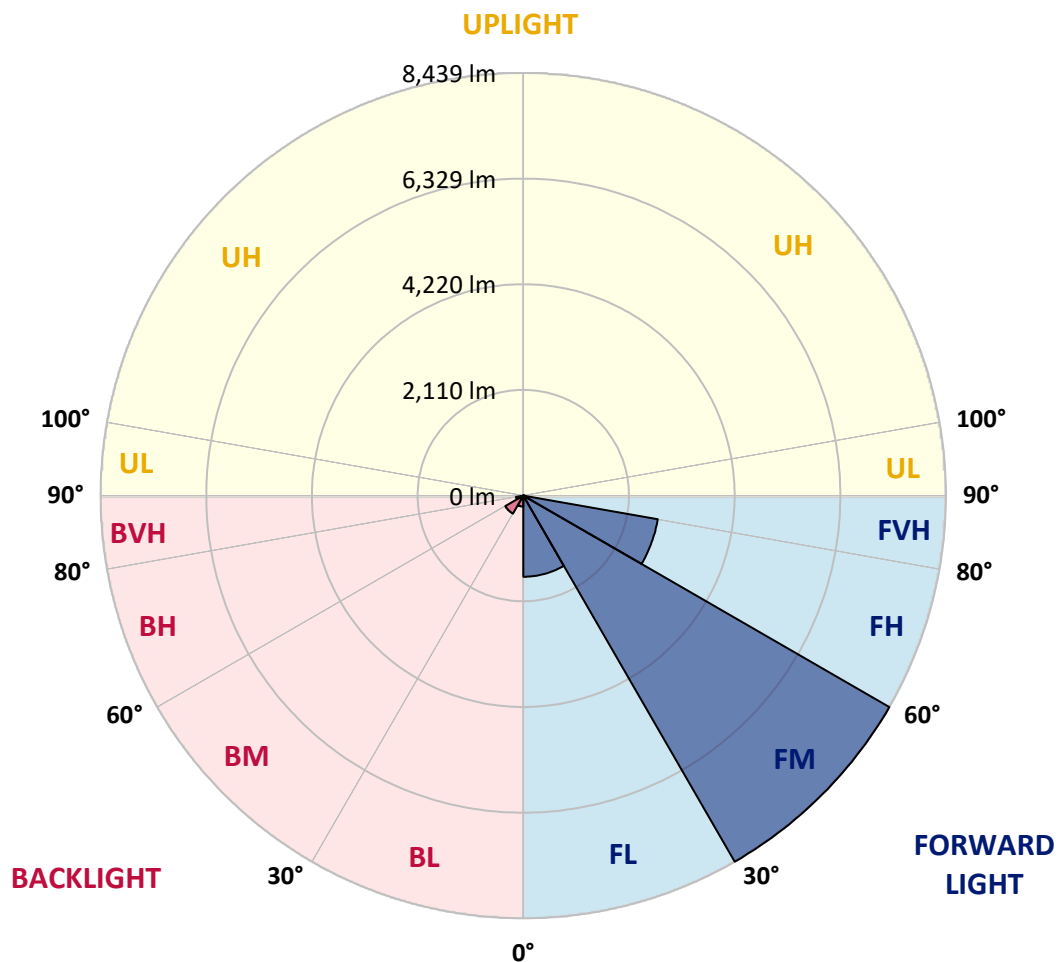
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.7	11.9			
FM (30°-60°)	8439.1	62.1			
FH (60°-80°)	2726.3	20.0			G2/5000
FVH (80°-90°)	30.5	0.2			G1/100
BL (0°-30°)	219.1	1.6	B1/500		
BM (30°-60°)	415.3	3.1	B1/1000		
BH (60°-80°)	147.3	1.1	B1/500		G1/500
BVH (80°-90°)	2.7	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°	1139.0	1139.0	1139.0	1139.0	1139.0	1139.0	1139.0	1139.0	1139.0	1139.0	1139.0
2.5°	1666.7	1651.7	1621.6	1611.3	1567.2	1498.6	1438.5	1357.8	1293.9	1287.3	1210.3
5°	2232.0	2198.2	2184.1	2116.5	2010.4	1910.8	1739.9	1610.4	1461.1	1449.8	1294.9
7.5°	2776.6	2729.6	2715.5	2651.7	2527.7	2370.9	2149.3	1913.6	1677.0	1655.4	1408.5
10°	3170.9	3177.5	3152.2	3109.9	3009.4	2849.8	2576.6	2254.5	1917.4	1890.2	1536.2
12.5°	3453.6	3452.6	3457.3	3456.4	3402.9	3281.7	2994.4	2623.5	2182.2	2128.7	1682.7
15°	3637.6	3640.4	3654.5	3703.3	3709.0	3633.9	3394.4	2976.6	2489.2	2422.6	1841.3
17.5°	3823.5	3843.2	3865.8	3911.8	3953.1	3923.1	3754.0	3344.6	2767.2	2717.4	2011.3
20°	4130.6	4157.8	4144.7	4172.8	4194.4	4197.2	4066.7	3684.6	3104.3	3020.7	2205.7
22.5°	4621.7	4620.7	4586.9	4536.2	4494.0	4492.1	4373.8	4033.9	3410.4	3329.6	2401.0
25°	5242.3	5245.1	5179.4	5034.8	4929.6	4801.0	4664.9	4340.0	3738.1	3638.5	2606.6
27.5°	5954.1	5936.2	5836.7	5637.6	5429.2	5209.5	5013.2	4695.8	4085.5	4002.9	2842.3
30°	6593.5	6586.9	6470.5	6227.3	5953.1	5732.5	5448.0	5141.9	4535.3	4433.9	3106.1
32.5°	7188.8	7198.2	7036.7	6785.1	6520.3	6265.8	5965.3	5568.1	4976.6	4832.9	3393.5
35°	7653.6	7663.0	7495.9	7286.5	7014.2	6802.9	6516.5	6022.6	5412.3	5291.2	3724.0
37.5°	7901.5	7913.7	7817.0	7659.3	7489.3	7383.2	7116.5	6607.6	5941.9	5868.6	4114.6
40°	7948.5	7962.5	7920.3	7878.0	7868.6	7944.7	7866.8	7296.8	6676.1	6561.6	4696.8
42.5°	7807.6	7826.4	7845.2	7939.1	8130.6	8409.5	8680.9	8232.0	7621.7	7467.7	5408.5
45°	7437.7	7435.8	7510.0	7753.2	8182.3	8777.6	9531.6	9402.9	8910.0	8726.9	6414.2
47.5°	6804.8	6795.4	6956.0	7302.4	7971.0	8845.2	10225.5	10824.6	10554.1	10385.1	7494.9
50°	5840.5	5886.5	6139.0	6622.6	7446.1	8640.5	10439.6	11757.0	11903.4	11724.1	8368.2
52.5°	4710.9	4709.0	5105.2	5761.6	6668.6	8189.8	10290.3	11926.0	12341.9	12204.9	8798.2
55°	3486.4	3510.8	3923.1	4585.0	5659.2	7367.2	9802.9	11752.3	12509.1	12412.4	9081.8
57°	2593.5	2636.7	2967.2	3667.7	4780.3	6553.1	9154.1	11441.5	12574.8	12522.2	9317.5
57.5°	2420.7	2422.6	2744.6	3381.3	4523.1	6240.5	8968.2	11311.9	12572.9	12543.8	9356.0
60°	1490.2	1537.1	1759.6	2285.5	3310.8	4870.5	7722.2	10567.3	12475.3	12517.5	9520.3
62.5°	892.0	911.7	1056.4	1377.5	2134.3	3555.0	6319.3	9614.2	12220.8	12349.5	9509.0
65°	573.7	578.4	644.1	833.8	1334.3	2402.8	4869.5	8355.0	11562.6	11799.2	9137.2
67.5°	443.2	450.7	477.0	547.4	773.7	1496.7	3444.2	7011.4	10497.8	10803.0	8235.8
70°	393.4	397.2	406.6	429.1	511.7	845.1	2142.8	5477.1	8705.3	8791.7	6445.2
72.5°	321.1	331.5	360.6	368.1	405.6	527.7	1192.5	3676.1	5848.9	5870.5	3605.7
75°	248.8	250.7	293.9	315.5	341.8	363.4	532.4	1853.5	2809.4	2659.2	1389.7
77.5°	185.9	194.4	214.1	241.3	278.9	260.1	238.5	698.6	872.3	856.3	403.8
80°	119.3	123.9	149.3	181.2	216.9	170.0	134.3	204.7	191.6	197.2	96.7
82.5°	60.1	61.0	95.8	147.4	138.0	85.4	84.5	83.6	71.4	70.4	45.1
85°	6.6	14.1	62.0	84.5	62.0	28.2	39.4	38.5	37.6	38.5	26.3
87.5°	0.9	0.9	10.3	12.2	8.5	9.4	11.3	12.2	15.0	14.1	11.3
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°	1139.0	1139.0	1139.0	1139.0	1139.0	1139.0	1139.0	1139.0	1139.0	1139.0	1139.0
2.5°	1172.8	1135.2	1065.7	999.1	949.3	917.4	876.1	861.0	839.4	836.6	826.3
5°	1223.5	1152.1	1031.0	935.2	858.2	800.0	749.3	707.1	673.2	665.7	669.5
7.5°	1295.8	1189.7	1020.7	890.2	783.1	683.6	602.8	553.1	517.4	504.2	506.1
10°	1377.5	1239.5	1018.8	842.3	678.9	556.8	468.6	424.4	403.8	396.2	387.8
12.5°	1474.2	1296.7	1014.1	768.1	564.3	444.1	381.2	354.9	335.2	329.6	329.6
15°	1583.1	1357.8	991.6	676.1	458.2	367.1	324.9	304.2	297.7	292.0	292.0
17.5°	1696.7	1417.9	944.6	562.4	380.3	314.6	288.3	276.1	266.7	260.1	260.1
20°	1826.3	1477.0	869.5	462.0	321.1	280.8	260.1	246.0	238.5	232.9	231.0
22.5°	1949.3	1524.9	773.7	379.3	279.8	252.6	233.8	218.8	211.3	208.5	208.5
25°	2077.0	1554.0	658.2	313.6	255.4	229.1	208.5	196.2	189.7	187.8	186.9
27.5°	2201.0	1570.9	556.8	274.2	232.9	207.5	187.8	178.4	171.8	170.0	170.9
30°	2351.2	1573.7	458.2	246.0	213.1	186.9	169.0	160.6	156.8	154.9	154.0
32.5°	2503.3	1570.0	385.0	229.1	194.4	169.0	154.0	147.4	144.6	141.8	141.8
35°	2674.2	1550.3	327.7	212.2	176.5	154.0	140.8	135.2	131.5	128.6	127.7
37.5°	2886.4	1539.9	294.8	193.4	160.6	139.9	127.7	122.1	119.3	115.5	114.6
40°	3220.7	1585.9	284.5	176.5	144.6	126.8	115.5	108.9	105.2	101.4	100.5
42.5°	3637.6	1666.7	267.6	159.6	130.5	114.6	103.3	95.8	89.2	84.5	82.6
45°	4177.5	1772.8	241.3	141.8	118.3	101.4	91.1	81.7	73.2	69.5	68.5
47.5°	4743.7	1875.1	217.8	127.7	105.2	90.1	78.9	68.5	61.0	58.2	57.3
50°	5091.1	1895.8	202.8	111.7	92.0	77.9	66.7	57.3	52.6	49.8	49.8
52.5°	5249.8	1862.9	182.2	97.7	79.8	68.5	57.3	49.8	46.9	45.1	44.1
55°	5360.6	1812.2	154.9	84.5	68.5	58.2	50.7	45.1	41.3	39.4	38.5
57°	5425.4	1743.7	134.3	74.2	59.2	50.7	45.1	40.4	36.6	32.9	32.9
57.5°	5428.2	1717.4	128.6	73.2	56.3	48.8	44.1	39.4	34.7	31.0	30.0
60°	5344.7	1537.1	103.3	62.0	45.1	41.3	36.6	31.0	24.4	20.7	19.7
62.5°	5076.1	1308.0	85.4	52.6	36.6	31.9	26.3	23.5	16.9	12.2	12.2
65°	4669.5	1061.0	73.2	42.3	30.0	23.5	17.8	16.9	10.3	5.6	4.7
67.5°	4081.7	826.3	62.0	34.7	25.4	16.9	12.2	11.3	5.6	1.9	0.0
70°	3109.9	563.4	51.6	28.2	18.8	12.2	8.5	6.6	3.8	0.9	0.0
72.5°	1792.5	309.9	43.2	21.6	14.1	9.4	6.6	3.8	3.8	0.0	0.0
75°	640.4	133.3	32.9	16.0	11.3	7.5	4.7	1.9	2.8	0.9	0.0
77.5°	203.8	71.4	21.6	12.2	9.4	5.6	3.8	1.9	1.9	0.9	0.0
80°	60.1	37.6	13.1	10.3	6.6	4.7	2.8	0.9	1.9	0.9	0.0
82.5°	32.9	18.8	10.3	7.5	6.6	3.8	2.8	0.9	0.9	0.9	0.0
85°	16.9	11.3	8.5	7.5	6.6	3.8	2.8	0.9	0.0	0.9	0.9
87.5°	9.4	8.5	8.5	7.5	6.6	4.7	2.8	0.9	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)