

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: P651121

Luminaire Tested: **GALN-SA9C-840-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651121  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-840-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43868.2 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

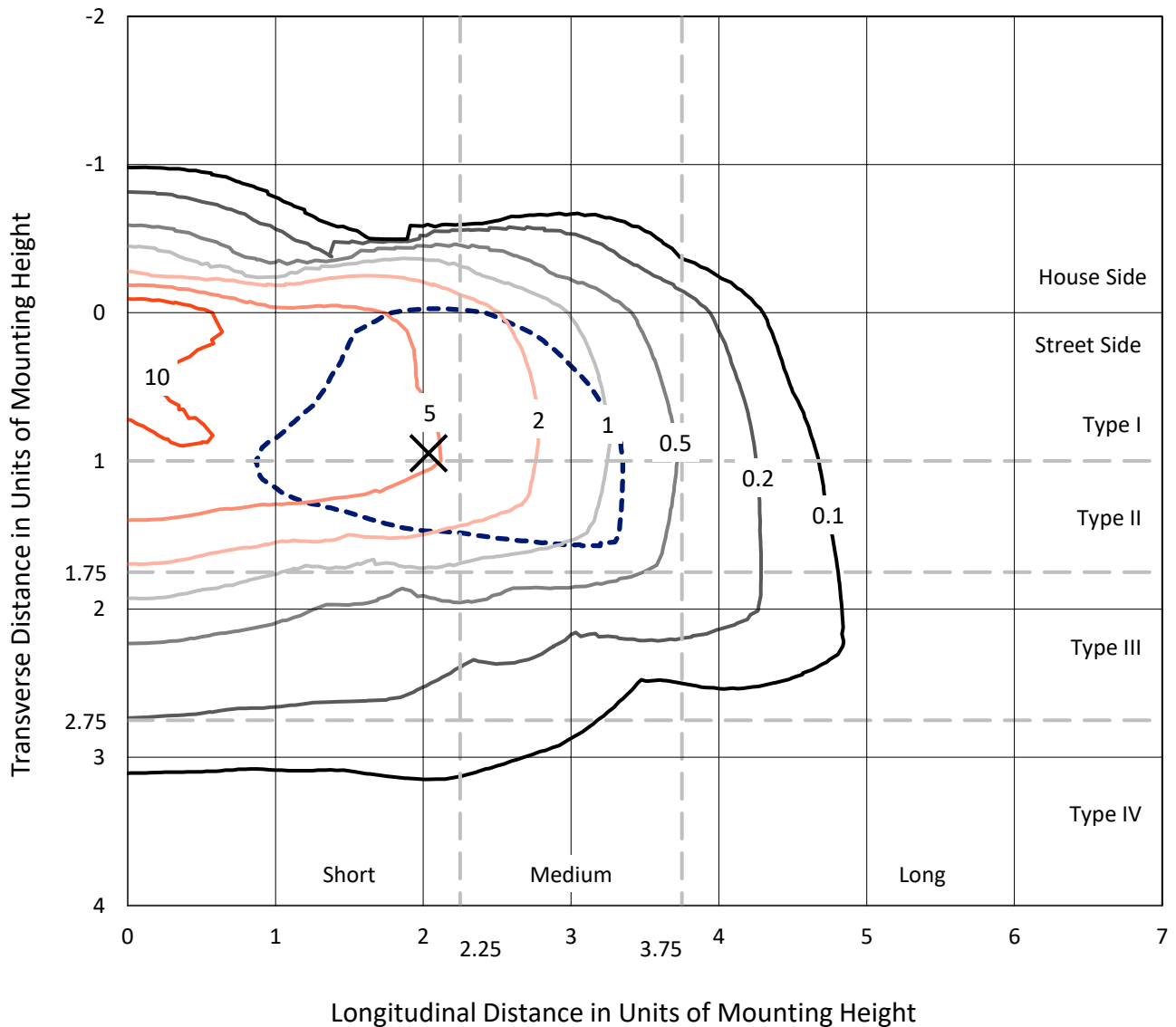
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

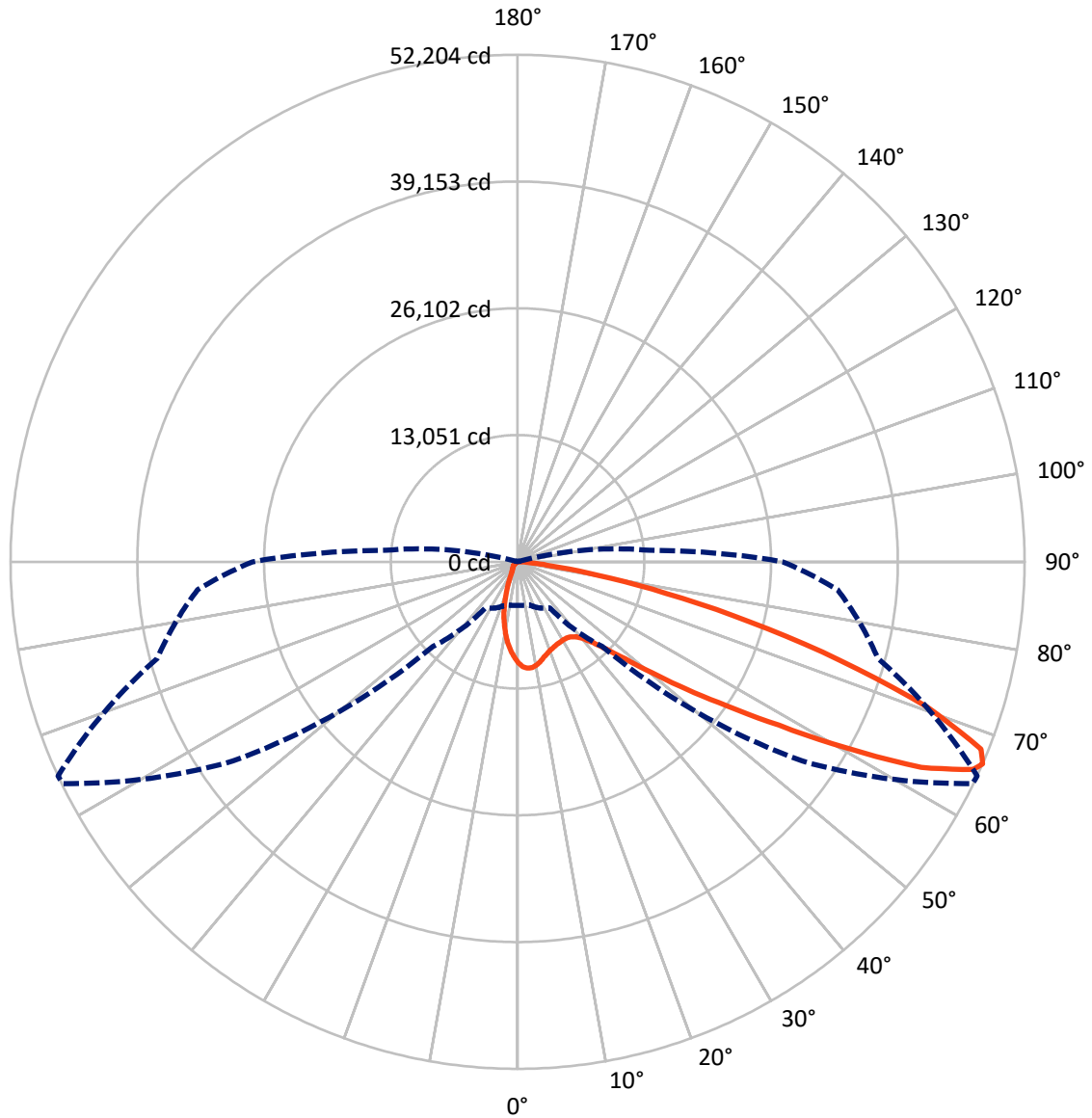
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4536.6	0.0	4536.6
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	39331.6	0.0	39331.6
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	43868.2	0.0	43868.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	850.8	1.9
10°-20°	1853.7	4.2
20°-30°	2655.5	6.1
30°-40°	3878.6	8.8
40°-50°	6503.7	14.8
50°-60°	10853.6	24.7
60°-70°	11520.8	26.3
70°-80°	5217.7	11.9
80°-90°	533.9	1.2
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°	43868.2	100.0
0°-180°	43868.2	100.0

**Coefficient of Utilization**

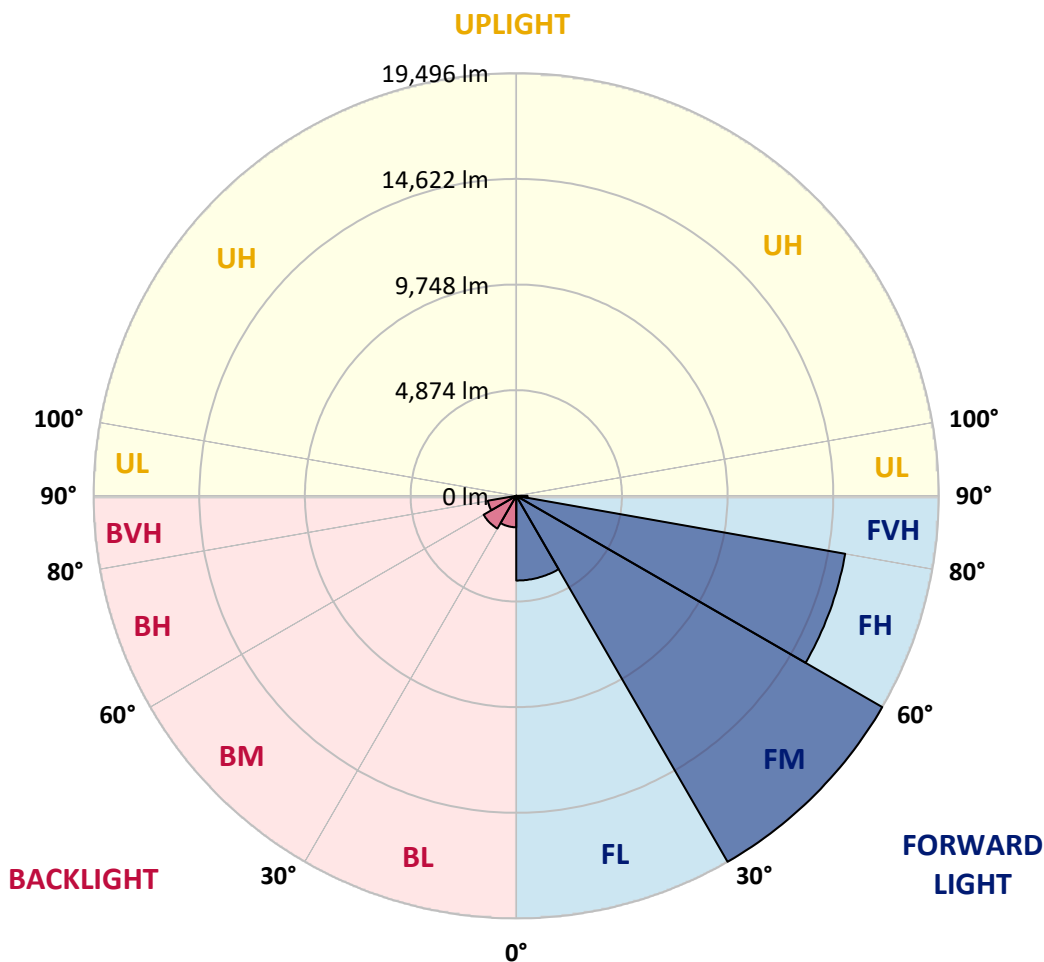


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3908.8	8.9			
FM (30°-60°)	19496.1	44.4			
FH (60°-80°)	15409.9	35.1			G5
FVH (80°-90°)	516.9	1.2			G4/750
BL (0°-30°)	1451.2	3.3	B3/2500		
BM (30°-60°)	1739.8	4.0	B2/2500		
BH (60°-80°)	1328.6	3.0	B3/2500		G3/2500
BVH (80°-90°)	17.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	10402.7	10402.7	10402.7	10402.7	10402.7	10402.7	10402.7	10402.7	10402.7	10402.7	10402.7
2.5°	10962.8	10974.6	10989.4	11010.2	11025.0	10980.5	10918.3	10847.2	10832.4	10681.3	10497.6
5°	10376.1	10393.9	10524.3	10595.3	10755.4	10900.5	10992.4	11004.2	10998.3	10856.1	10562.8
7.5°	9540.6	9590.9	9718.3	9842.8	10142.0	10417.6	10743.5	10971.7	10986.5	10948.0	10583.5
10°	8862.0	8894.7	8959.8	9205.8	9454.6	9875.4	10331.7	10761.3	10796.8	10950.9	10565.7
12.5°	8331.7	8379.1	8459.1	8648.8	8948.0	9345.0	9863.5	10441.3	10515.4	10894.7	10515.4
15°	7961.3	7985.0	8065.0	8251.7	8542.0	8909.5	9433.9	10106.5	10171.6	10820.6	10506.4
17.5°	7786.6	7813.2	7869.5	8017.7	8257.6	8598.4	9111.0	9836.8	9919.8	10773.1	10539.1
20°	7833.9	7857.6	7860.6	7937.6	8100.6	8388.0	8873.9	9585.0	9691.7	10743.5	10592.4
22.5°	8103.5	8106.5	8071.0	8035.4	8091.7	8299.1	8728.7	9425.0	9534.7	10737.6	10654.6
25°	8506.5	8515.4	8456.2	8331.7	8219.1	8325.8	8696.1	9321.3	9419.1	10722.8	10693.1
27.5°	9063.5	9060.6	9042.8	8835.4	8515.4	8444.3	8722.8	9265.0	9348.0	10681.3	10707.9
30°	9842.8	9819.1	9780.6	9546.5	9057.7	8731.7	8835.4	9229.5	9306.5	10622.0	10669.4
32.5°	10610.1	10699.0	10693.1	10471.0	9860.6	9244.3	9069.4	9276.9	9333.2	10583.5	10613.2
35°	11505.0	11502.0	11730.2	11647.2	10933.2	9899.1	9469.5	9433.9	9478.3	10610.1	10586.5
37.5°	12334.6	12411.6	12767.2	12853.1	12201.2	10823.5	10035.4	9771.7	9786.5	10791.0	10651.7
40°	13368.6	13516.8	14047.1	14334.6	13759.8	12195.3	10870.9	10390.9	10393.9	11235.3	10897.6
42.5°	14701.9	14936.0	15430.8	15910.8	15602.7	13819.0	12124.2	11371.7	11365.7	12017.6	11460.6
45°	16322.6	16485.6	17048.6	17810.0	17614.5	16085.6	13949.4	12891.6	12814.6	13300.5	12459.1
47.5°	17721.1	17943.4	18515.2	19383.4	20272.2	18853.0	16130.0	14980.5	14930.1	15341.9	14171.6
50°	18331.5	18527.1	19128.5	20346.3	22500.4	22485.6	19377.4	18029.3	17943.4	18165.6	16820.4
52.5°	17661.9	17845.6	18453.0	19970.0	23549.2	26912.1	24082.5	21854.4	21750.7	21466.3	19984.9
55°	15368.6	15519.7	16417.5	18159.7	23146.3	29863.2	30565.4	26580.3	26177.3	25072.1	23567.0
57.5°	12236.8	12159.8	12716.8	14740.5	20781.9	30852.8	37220.1	32467.6	31747.6	28189.1	26598.1
60°	8479.9	8716.9	8942.1	10275.3	15626.4	29137.3	41359.3	39869.0	38920.8	31255.8	29501.7
62.5°	6234.0	6391.0	6539.1	7155.4	9825.0	23264.8	42091.1	47471.8	46630.3	34511.9	32272.0
65°	4930.3	4942.1	5001.4	5608.8	6473.9	15128.6	38574.1	51759.1	51542.8	37646.8	33394.9
66°	4491.8	4494.7	4586.6	5238.4	5810.3	12319.8	35756.4	52085.0	52203.5	38399.3	33066.1
67.5°	3925.9	3914.0	4047.3	4708.1	5291.7	8882.8	30713.5	50763.5	51465.8	38977.1	31883.9
70°	3042.9	3028.1	3191.1	3949.6	4874.0	5925.9	20414.4	43587.3	44719.2	37794.9	28209.8
72.5°	2026.6	2038.5	2317.0	3117.0	4651.7	5217.6	12281.3	33157.9	34757.9	31211.3	22192.2
75°	1182.2	1203.0	1519.9	2317.0	4038.5	4974.8	6950.9	23644.0	24666.2	21552.2	13824.9
77.5°	619.2	628.1	850.3	1528.9	3096.2	4619.2	4631.1	15104.9	15584.9	10473.9	5472.5
80°	328.9	320.0	456.3	921.5	2130.3	4056.2	3757.0	7996.9	8314.0	3111.0	1383.7
82.5°	124.5	136.3	243.0	604.4	1259.2	2912.6	3235.5	3534.7	3425.1	684.4	580.7
85°	23.7	29.6	103.7	358.5	634.0	1217.8	2385.2	1733.3	1605.9	257.8	334.8
87.5°	2.9	5.9	29.6	86.0	91.8	411.8	705.2	480.0	414.8	94.8	139.3
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°	10402.7	10402.7	10402.7	10402.7	10402.7	10402.7	10402.7	10402.7	10402.7	10402.7	10402.7
2.5°	10408.7	10328.7	10062.1	9798.3	9528.7	9285.7	9119.8	8850.2	8782.1	8684.3	8628.0
5°	10387.9	10201.3	9688.7	9128.7	8607.2	8044.3	7614.7	7199.9	6977.7	6865.1	6823.6
7.5°	10328.7	10032.4	9232.4	8355.4	7519.9	6678.4	5946.5	5389.5	5031.0	4785.1	4619.2
10°	10210.2	9801.3	8702.1	7496.2	6234.0	5122.9	4195.5	3490.3	2945.1	2773.3	2779.2
12.5°	10088.7	9543.5	8109.5	6542.1	4977.7	3576.3	2592.6	2035.6	1774.8	1688.9	1671.1
15°	9976.1	9297.6	7528.7	5617.7	3706.6	2317.0	1671.1	1475.5	1404.4	1389.6	1386.6
17.5°	9916.8	9069.4	6909.5	4559.9	2586.6	1573.3	1339.2	1285.9	1265.2	1250.3	1244.4
20°	9866.5	8871.0	6316.9	3570.3	1768.9	1288.8	1199.9	1149.6	1114.1	1099.3	1090.4
22.5°	9831.0	8666.5	5703.6	2764.4	1354.0	1143.7	1063.7	998.5	948.1	930.3	918.5
25°	9777.6	8441.4	5084.3	2020.7	1140.7	1016.3	924.4	847.4	782.2	749.6	743.7
27.5°	9700.6	8186.5	4405.8	1496.3	1019.2	903.7	791.1	696.3	631.1	595.5	598.5
30°	9576.1	7919.9	3727.3	1188.2	921.5	788.1	666.7	574.8	512.6	485.9	483.0
32.5°	9427.9	7596.9	3105.1	1019.2	832.6	684.4	557.0	477.0	429.6	408.9	406.0
35°	9288.8	7270.9	2471.0	915.5	740.8	589.6	468.1	400.0	364.4	346.7	349.6
37.5°	9211.7	6980.6	1925.9	832.6	666.7	506.6	402.9	343.7	311.1	296.3	293.3
40°	9262.0	6743.6	1531.8	758.5	583.7	435.6	346.7	296.3	263.7	243.0	243.0
42.5°	9499.1	6639.9	1235.5	687.4	506.6	376.3	302.3	254.8	219.2	198.5	201.5
45°	10222.0	6749.5	1034.1	622.2	435.6	325.9	260.7	210.3	177.8	163.0	160.0
47.5°	11422.0	7161.4	894.8	554.1	373.3	278.5	219.2	174.8	142.2	130.4	127.4
50°	13519.7	8011.7	791.1	485.9	317.1	237.0	180.7	139.3	112.6	100.8	100.8
52.5°	16405.6	9866.5	717.0	408.9	266.7	201.5	148.2	112.6	88.9	80.0	77.0
55°	19421.9	11822.0	678.5	343.7	222.2	165.9	118.5	88.9	68.1	59.3	56.3
57.5°	22322.6	13356.8	634.0	278.5	177.8	127.4	91.8	68.1	47.4	41.5	38.5
60°	25104.8	14598.2	539.2	222.2	139.3	91.8	68.1	47.4	32.6	26.7	26.7
62.5°	27593.5	15321.2	423.7	177.8	106.6	65.2	44.4	35.6	23.7	17.7	17.7
65°	27883.9	14381.9	320.0	136.3	77.0	41.5	26.7	26.7	17.7	11.9	11.9
66°	27300.3	13584.9	281.5	124.5	68.1	35.6	23.7	20.8	14.8	8.9	8.9
67.5°	25996.6	12224.9	243.0	106.6	56.3	26.7	17.7	17.7	11.9	5.9	5.9
70°	22461.8	9985.0	192.6	80.0	41.5	20.8	11.9	11.9	8.9	5.9	5.9
72.5°	17119.7	7454.7	157.0	59.3	29.6	14.8	8.9	8.9	8.9	5.9	5.9
75°	10325.7	4014.8	121.4	44.4	26.7	11.9	5.9	8.9	11.9	8.9	5.9
77.5°	3804.3	1365.9	94.8	35.6	20.8	11.9	5.9	5.9	11.9	8.9	8.9
80°	933.3	355.6	68.1	29.6	20.8	11.9	5.9	5.9	11.9	11.9	11.9
82.5°	432.6	151.1	47.4	26.7	20.8	11.9	5.9	5.9	8.9	11.9	11.9
85°	248.9	71.1	38.5	29.6	20.8	11.9	5.9	5.9	8.9	11.9	11.9
87.5°	100.8	35.6	35.6	29.6	23.7	14.8	5.9	5.9	5.9	8.9	8.9
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)