

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: P647194

Luminaire Tested: **GALN-SA9C-835-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-835-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35935.8 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

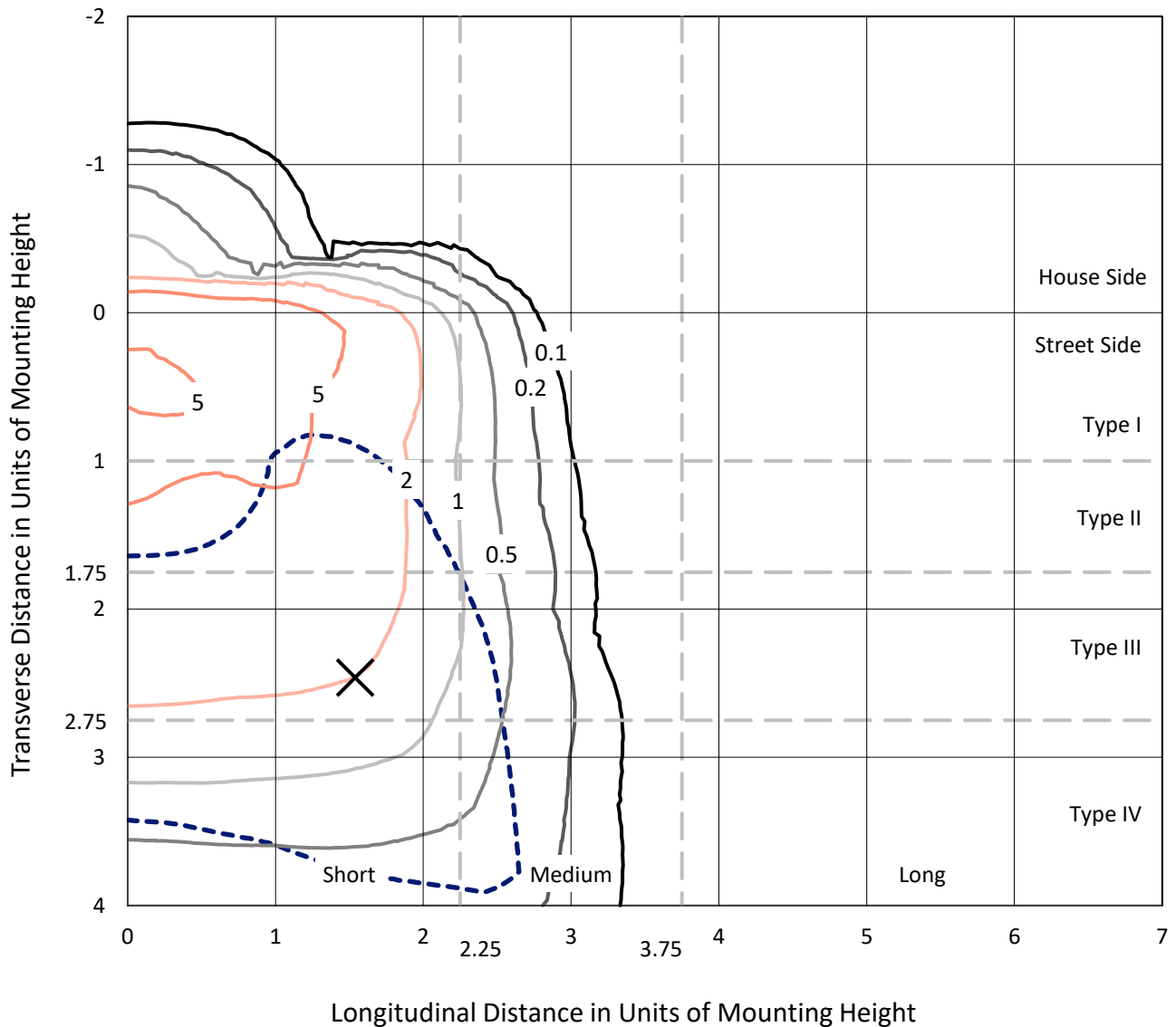
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

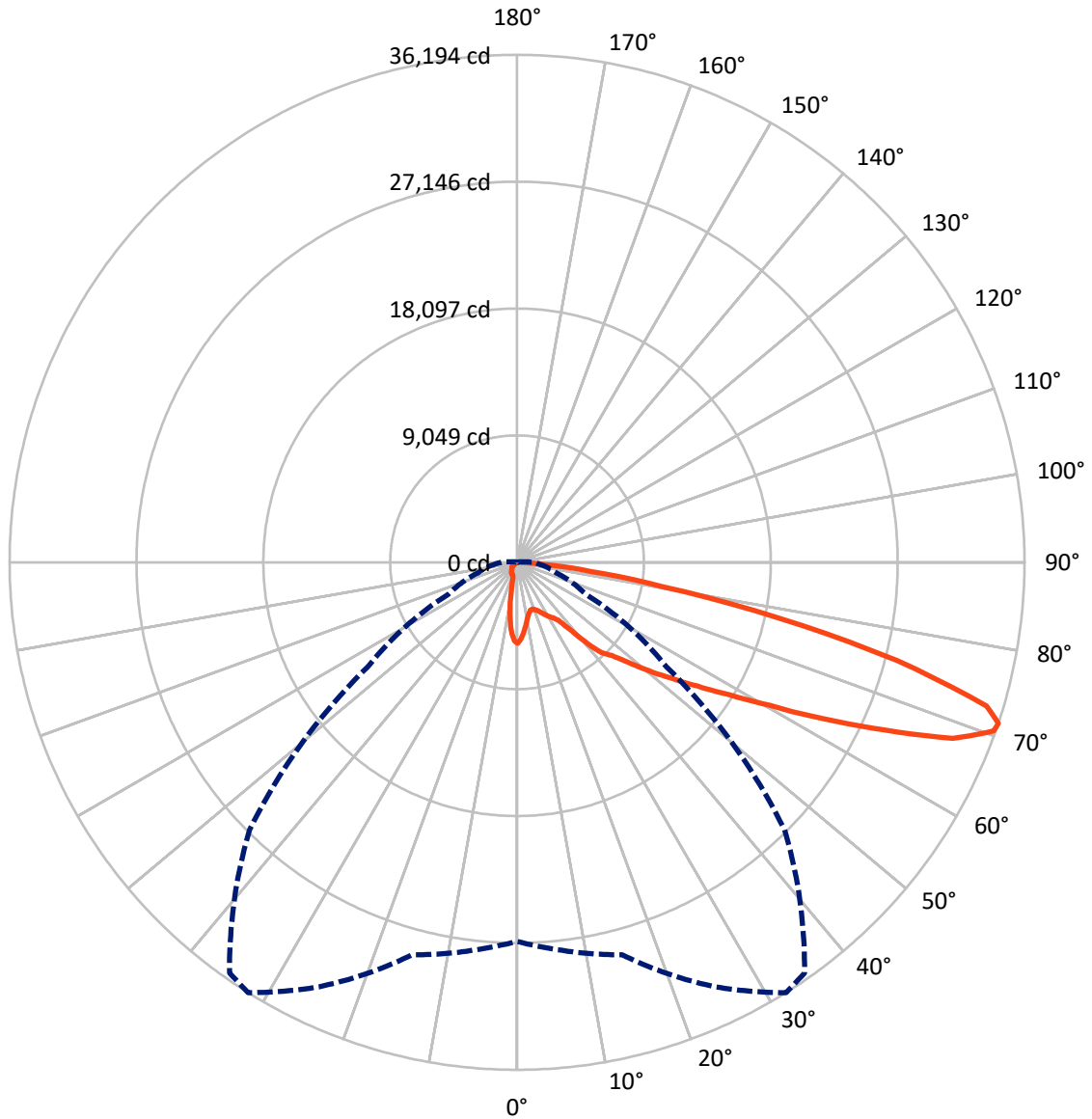
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3010.0	0.0	3010.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	32925.8	0.0	32925.8
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	35935.8	0.0	35935.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.9	1.3
10°-20°	1019.9	2.8
20°-30°	1586.6	4.4
30°-40°	2643.3	7.4
40°-50°	4916.9	13.7
50°-60°	7894.3	22.0
60°-70°	10618.1	29.5
70°-80°	6299.9	17.5
80°-90°	487.0	1.4
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°	35935.8	100.0
0°-180°	35935.8	100.0

**Coefficient of Utilization**



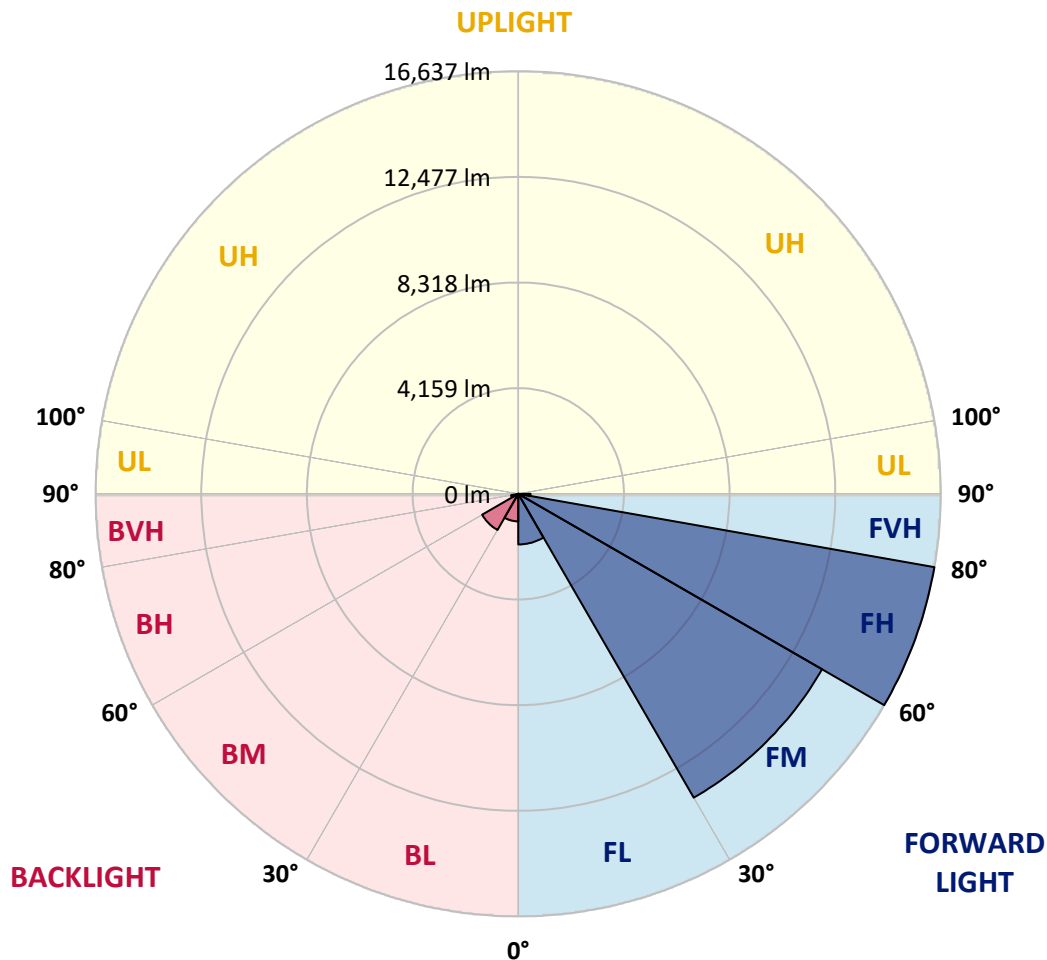
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1991.8	5.5			
FM (30°-60°)	13812.4	38.4			
FH (60°-80°)	16636.5	46.3			G5
FVH (80°-90°)	485.1	1.3			G3/500
BL (0°-30°)	1084.6	3.0	B3/2500		
BM (30°-60°)	1642.0	4.6	B2/2500		
BH (60°-80°)	281.5	0.8	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5779.0	5779.0	5779.0	5779.0	5779.0	5779.0	5779.0	5779.0	5779.0	5779.0	5779.0
2.5°	5359.7	5414.9	5406.6	5426.0	5472.9	5492.1	5544.6	5602.5	5682.5	5737.7	5773.5
5°	4799.8	4841.1	4846.7	4943.2	4990.1	5042.5	5197.0	5365.3	5552.8	5701.8	5801.1
7.5°	4201.2	4223.3	4267.4	4394.3	4512.9	4565.3	4799.8	5092.2	5387.4	5665.9	5845.3
10°	3707.4	3732.2	3812.3	3947.4	4057.7	4126.7	4452.2	4819.1	5232.9	5646.6	5908.7
12.5°	3426.0	3439.8	3470.2	3591.5	3732.2	3806.7	4157.0	4576.3	5108.7	5654.9	6016.3
15°	3406.8	3401.2	3365.3	3415.0	3541.9	3619.1	3961.2	4410.8	4998.4	5682.5	6143.2
17.5°	3508.8	3495.0	3409.5	3409.5	3514.3	3577.8	3878.4	4322.6	4943.2	5746.0	6322.5
20°	3666.0	3644.0	3503.3	3492.3	3594.3	3660.5	3928.1	4328.0	4954.3	5864.5	6562.5
22.5°	3864.7	3839.8	3627.4	3633.0	3743.3	3809.5	4071.5	4427.4	5023.2	6010.8	6819.0
25°	4123.9	4096.3	3845.3	3834.3	3950.2	4008.1	4283.9	4603.9	5119.7	6192.8	7155.5
27.5°	4468.7	4410.8	4110.1	4093.6	4217.7	4292.2	4540.5	4841.1	5290.8	6443.9	7607.9
30°	4752.9	4689.5	4402.6	4358.4	4490.8	4548.8	4805.3	5161.1	5627.3	6882.4	8234.1
32.5°	5125.3	5031.5	4694.9	4579.1	4719.8	4794.2	5188.7	5756.9	6126.6	7345.9	8978.9
35°	5963.9	5905.9	5494.9	5089.4	5081.1	5174.9	5754.2	6358.4	6639.7	8068.6	9994.0
37.5°	7163.8	7122.4	6686.6	6143.2	5986.0	5941.8	6441.0	7020.4	7458.9	9061.7	11174.7
40°	8556.9	8460.3	8060.3	7599.6	7395.5	7265.8	7252.1	8005.2	8529.2	10410.5	12404.9
42.5°	9555.4	9378.9	8893.4	8860.3	8816.1	8681.0	8289.2	9445.1	9911.2	11861.5	13720.7
45°	10603.6	10336.1	9613.4	9489.2	9472.7	9464.4	9856.1	11149.8	11417.4	13433.9	15072.4
47.5°	11417.4	11205.0	10611.9	10556.7	10625.7	10813.3	11927.7	12959.4	12904.2	14835.2	16206.1
50°	12501.5	12341.5	11682.2	11787.0	12142.8	12449.1	14264.1	14931.7	14126.3	15938.6	17030.9
52.5°	13781.4	13486.2	12873.9	13158.0	13704.1	14214.5	16744.1	16658.5	14984.1	16768.9	17646.1
55°	14890.3	14680.7	14471.0	14766.2	15582.7	16219.9	18983.9	17952.2	15607.5	17436.4	17916.4
57.5°	16766.1	16716.4	16501.3	16801.9	17792.3	18454.3	20989.3	18956.4	16007.5	17784.0	17599.2
60°	19541.2	19461.2	19061.2	19444.6	20735.6	21775.5	22837.5	19858.4	16098.6	17648.8	16686.1
62.5°	22878.9	22605.8	22263.7	22829.2	24600.2	25058.1	24578.1	20393.5	15759.3	16573.0	14484.8
65°	25996.0	25714.7	25722.9	26914.6	28842.7	29154.5	26608.4	20313.5	14766.2	13878.0	10683.6
67.5°	28382.1	28335.2	28671.7	30997.2	33518.4	33303.3	28423.4	19116.3	11822.9	8995.4	5677.0
70°	28503.5	28594.5	29560.0	33485.3	36045.2	35703.2	28269.0	15538.6	7370.7	4137.8	2237.1
71°	27036.0	27648.4	28983.4	33408.1	36194.2	35750.1	26967.0	13014.6	5406.6	2885.4	1613.7
72.5°	23038.9	23361.7	26247.0	31441.3	35016.2	34067.3	23665.1	9122.3	3461.9	1765.4	926.8
75°	12689.1	13483.5	17577.1	24666.4	28007.0	27173.9	15422.8	4333.6	1726.8	965.4	383.4
77.5°	6041.1	5886.6	8576.1	14669.7	18989.5	18945.3	7770.6	1925.4	1006.9	653.7	193.1
80°	1726.8	1942.0	3282.6	6973.5	10542.9	10658.8	2984.7	929.6	697.9	510.4	99.3
82.5°	521.3	532.4	1205.4	3084.0	5243.9	4943.2	1119.9	474.5	502.1	405.5	57.9
85°	91.1	113.1	355.9	1086.9	1999.9	1517.1	281.3	226.2	331.1	267.6	33.1
87.5°	5.5	8.3	118.6	124.1	176.6	102.1	49.6	33.1	71.7	71.7	19.3
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°	5779.0	5779.0	5779.0	5779.0	5779.0	5779.0	5779.0	5779.0	5779.0	5779.0	5779.0
2.5°	5798.3	5814.9	5803.8	5779.0	5737.7	5688.0	5621.8	5566.7	5519.8	5494.9	5525.2
5°	5834.2	5856.3	5801.1	5677.0	5489.4	5285.2	5053.6	4874.3	4733.5	4689.5	4672.9
7.5°	5889.4	5903.2	5754.2	5478.3	5081.1	4598.4	4176.4	3820.5	3544.6	3461.9	3340.5
10°	5961.1	5952.8	5671.4	5158.4	4460.5	3735.0	3081.3	2595.7	2228.9	2096.5	2085.4
12.5°	6071.5	6027.3	5566.7	4722.5	3721.2	2772.3	1964.1	1536.5	1304.8	1227.5	1211.0
15°	6209.3	6104.5	5401.1	4212.2	2849.5	1790.3	1211.0	1081.3	1051.0	1045.5	1040.0
17.5°	6372.1	6206.6	5183.2	3586.1	2002.7	1161.3	1012.3	1009.6	1012.3	1006.9	1004.1
20°	6592.8	6314.2	4923.9	2844.0	1324.1	979.3	965.4	965.4	968.3	965.4	965.4
22.5°	6827.3	6441.0	4603.9	2170.9	998.6	929.6	926.8	932.4	937.9	935.1	935.1
25°	7116.9	6606.6	4181.8	1486.8	893.7	888.2	891.0	902.0	913.1	915.8	913.1
27.5°	7536.2	6810.7	3729.5	1023.4	819.3	824.8	852.4	879.9	896.5	899.3	899.3
30°	8007.9	7036.9	3139.1	830.3	758.6	758.6	791.7	844.1	879.9	885.5	888.2
32.5°	8614.8	7299.0	2485.4	747.5	700.6	695.1	725.4	789.0	855.1	874.5	874.5
35°	9365.1	7607.9	1848.2	695.1	659.3	645.5	662.0	714.5	800.0	855.1	860.7
37.5°	10245.0	7900.3	1351.7	648.2	620.7	601.3	612.4	653.7	722.7	805.5	827.6
40°	11058.8	8159.6	1009.6	609.6	582.0	568.2	576.5	595.9	653.7	731.0	744.8
42.5°	11947.0	8361.0	802.7	568.2	543.4	537.9	537.9	546.1	584.8	628.9	631.7
45°	12832.5	8432.7	673.1	518.6	502.1	507.5	504.8	499.3	515.8	510.4	510.4
47.5°	13464.2	8347.2	557.2	471.7	471.7	480.0	466.2	446.9	438.6	405.5	408.3
50°	13897.2	8035.5	457.9	416.6	438.6	449.6	422.0	391.7	361.4	325.5	317.2
52.5°	14076.5	7481.0	375.1	344.8	388.9	402.8	369.7	333.8	286.9	256.5	248.3
55°	13960.7	6796.9	311.7	281.3	328.2	344.8	311.7	270.4	217.9	184.8	179.3
57.5°	13450.4	5980.4	264.8	223.5	262.1	273.1	251.0	206.9	154.5	121.4	121.4
60°	12567.7	5136.3	215.2	176.6	195.8	212.4	190.3	148.9	104.8	74.5	69.0
62.5°	10777.4	4170.8	173.7	137.9	137.9	151.7	132.4	107.6	66.2	38.6	35.9
65°	7781.7	2860.5	137.9	102.1	99.3	99.3	82.8	71.7	38.6	16.5	11.0
67.5°	4228.7	1613.7	110.3	77.2	69.0	66.2	52.4	41.3	16.5	2.7	0.0
70°	1663.4	620.7	85.5	52.4	44.2	41.3	27.6	19.3	11.0	0.0	0.0
71°	1128.2	427.6	74.5	44.2	35.9	30.4	22.1	16.5	8.3	0.0	0.0
72.5°	645.5	264.8	57.9	33.1	27.6	22.1	16.5	11.0	8.3	0.0	0.0
75°	281.3	135.1	35.9	24.8	19.3	13.8	11.0	8.3	2.7	0.0	0.0
77.5°	143.4	74.5	24.8	19.3	11.0	8.3	5.5	2.7	0.0	0.0	0.0
80°	80.0	38.6	16.5	11.0	8.3	5.5	2.7	2.7	0.0	0.0	0.0
82.5°	44.2	22.1	8.3	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.6	13.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.8	5.5	0.0	0.0	0.0	0.0	2.7	2.7	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)