

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: P457349

Luminaire Tested: **GALN-SA8C-830-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457349  
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-SA8C-830-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 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: 32485 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

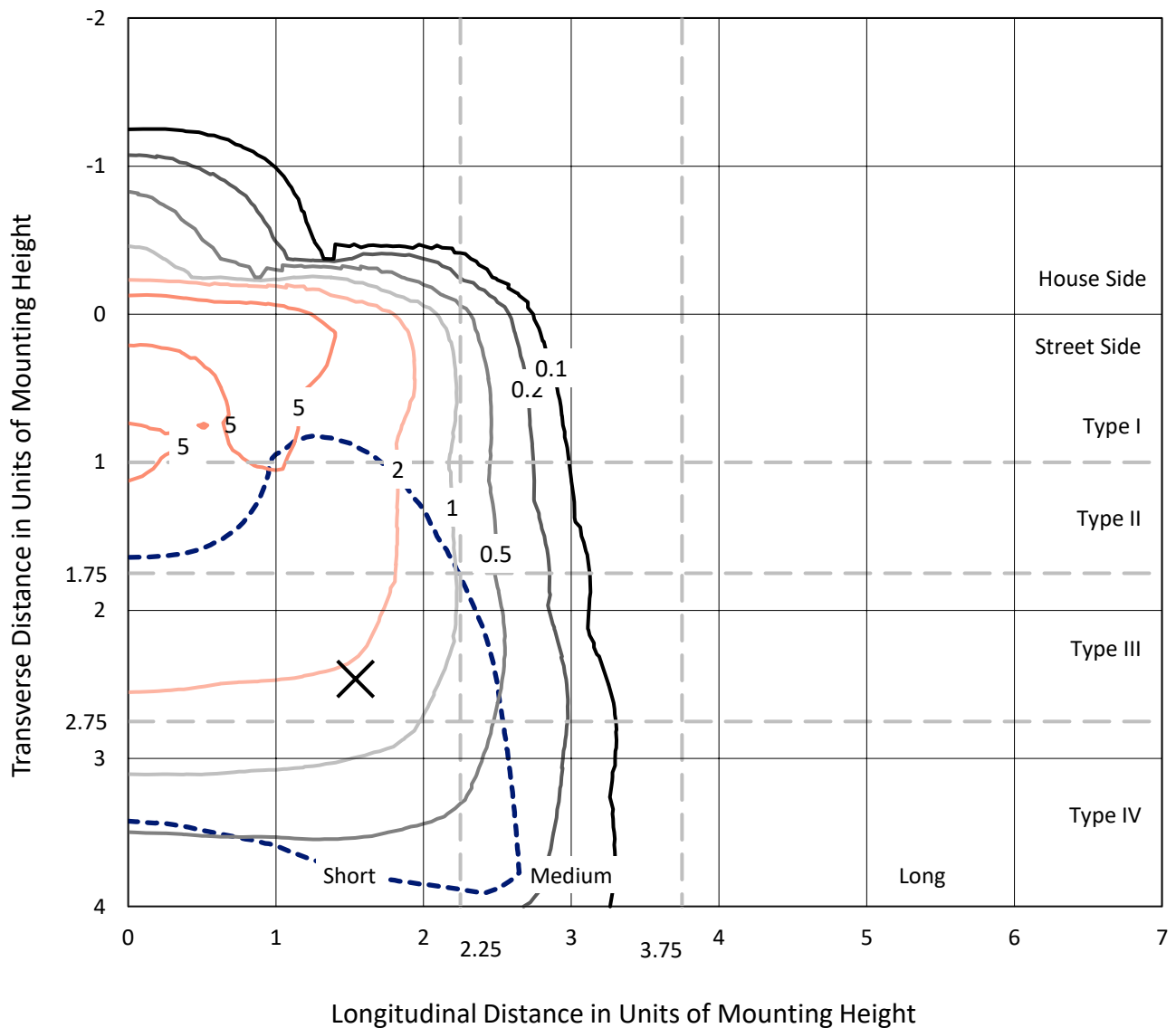
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

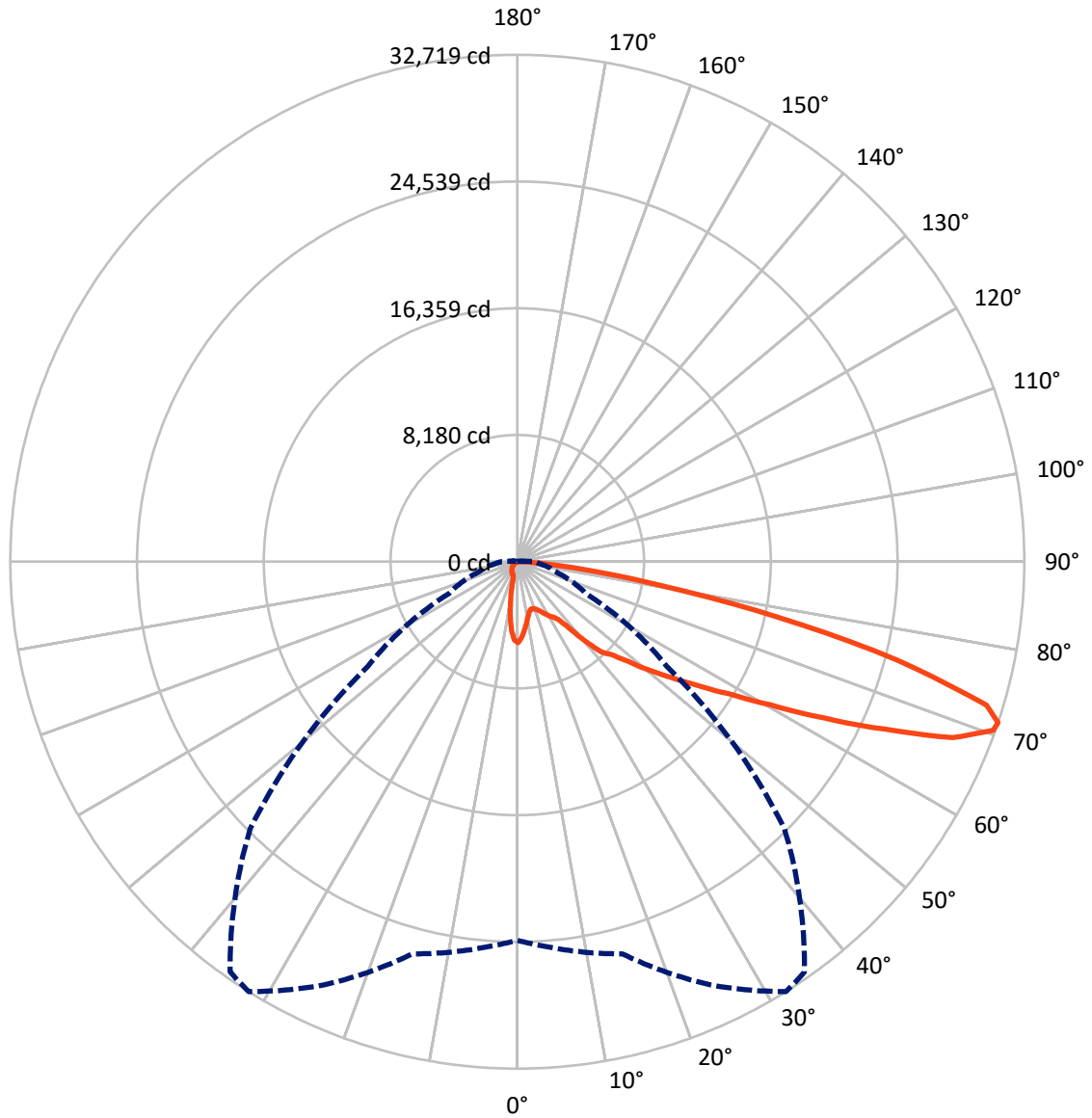
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	2721.0	0.0	2721.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	29764.0	0.0	29764.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	32485.0	0.0	32485.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.8	1.3
10°-20°	921.9	2.8
20°-30°	1434.2	4.4
30°-40°	2389.4	7.4
40°-50°	4444.7	13.7
50°-60°	7136.2	22.0
60°-70°	9598.5	29.5
70°-80°	5694.9	17.5
80°-90°	440.2	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°	32485.0	100.0
0°-180°	32485.0	100.0

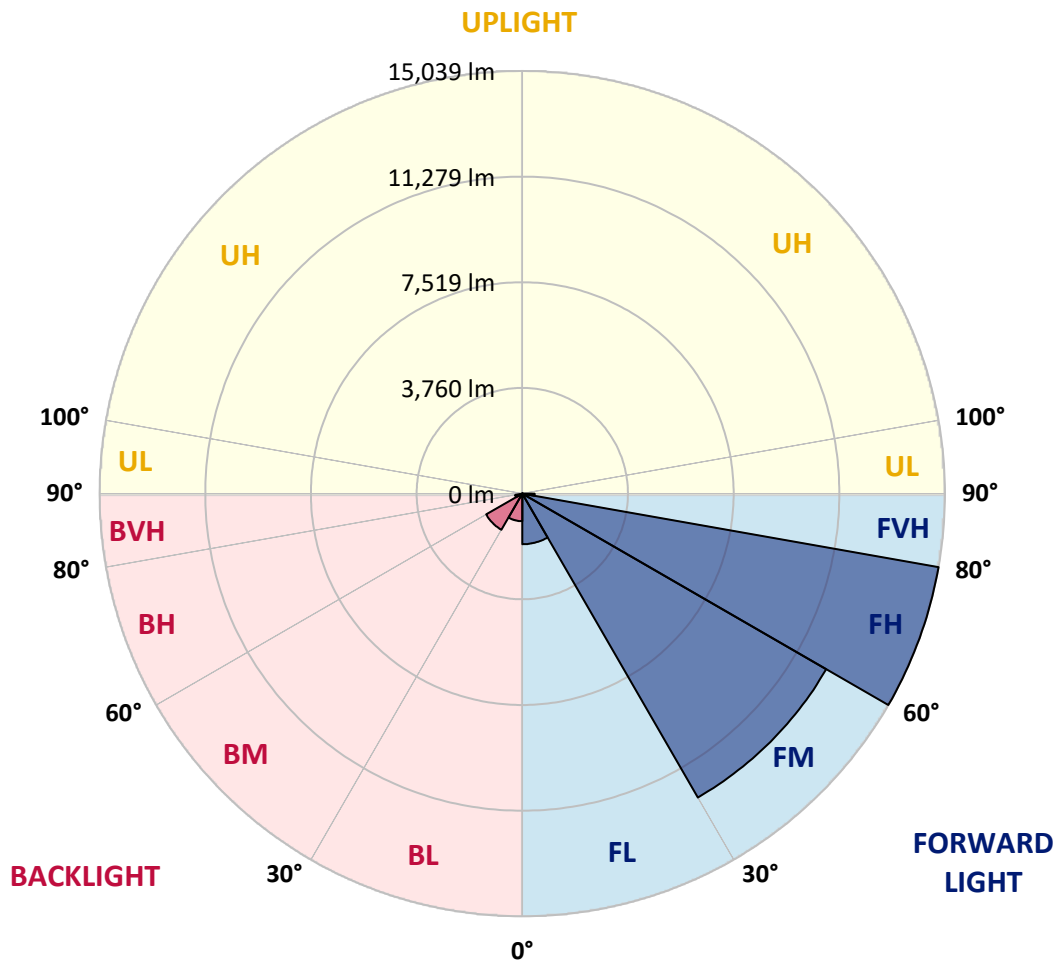


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1800.5	5.5			
FM (30°-60°)	12486.0	38.4			
FH (60°-80°)	15039.0	46.3			G5
FVH (80°-90°)	438.5	1.3			G3/500
BL (0°-30°)	980.4	3.0	B2/1000		
BM (30°-60°)	1484.3	4.6	B2/2500		
BH (60°-80°)	254.5	0.8	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1
2.5°	4845.1	4894.9	4887.5	4904.9	4947.3	4964.8	5012.1	5064.5	5136.8	5186.7	5219.1
5°	4338.9	4376.3	4381.3	4468.5	4510.9	4558.3	4697.9	4850.1	5019.6	5154.3	5244.0
7.5°	3797.8	3817.7	3857.6	3972.3	4079.5	4126.9	4338.9	4603.2	4870.0	5121.9	5283.9
10°	3351.4	3373.8	3446.2	3568.3	3668.1	3730.4	4024.7	4356.3	4730.4	5104.4	5341.3
12.5°	3097.1	3109.5	3137.0	3246.7	3373.8	3441.2	3757.9	4136.9	4618.2	5111.9	5438.5
15°	3079.6	3074.6	3042.2	3087.1	3201.8	3271.6	3580.8	3987.3	4518.4	5136.8	5553.3
17.5°	3171.9	3159.4	3082.1	3082.1	3176.8	3234.2	3506.0	3907.5	4468.5	5194.2	5715.3
20°	3314.0	3294.0	3166.9	3156.9	3249.2	3309.0	3550.9	3912.5	4478.5	5301.4	5932.3
22.5°	3493.5	3471.1	3279.1	3284.1	3383.8	3443.7	3680.6	4002.2	4540.8	5433.6	6164.2
25°	3727.9	3703.0	3476.1	3466.1	3570.8	3623.2	3872.6	4161.8	4628.1	5598.1	6468.4
27.5°	4039.6	3987.3	3715.5	3700.5	3812.7	3880.0	4104.5	4376.3	4782.7	5825.1	6877.4
30°	4296.5	4239.1	3979.8	3939.9	4059.6	4111.9	4343.9	4665.5	5086.9	6221.5	7443.4
32.5°	4633.1	4548.3	4244.1	4139.4	4266.6	4333.9	4690.5	5204.1	5538.3	6640.5	8116.7
35°	5391.2	5338.8	4967.3	4600.7	4593.2	4678.0	5201.7	5747.8	6002.1	7293.8	9034.3
37.5°	6475.9	6438.5	6044.5	5553.3	5411.1	5371.2	5822.6	6346.2	6742.7	8191.5	10101.6
40°	7735.2	7647.9	7286.3	6869.9	6685.3	6568.1	6555.7	7236.4	7710.2	9410.9	11213.7
42.5°	8637.8	8478.2	8039.4	8009.4	7969.6	7847.4	7493.3	8538.1	8959.5	10722.5	12403.2
45°	9585.4	9343.5	8690.2	8578.0	8563.0	8555.5	8909.6	10079.1	10321.0	12143.8	13625.0
47.5°	10321.0	10129.0	9592.9	9543.0	9605.4	9774.9	10782.3	11714.9	11665.1	13410.6	14649.9
50°	11301.0	11156.4	10560.4	10655.2	10976.8	11253.6	12894.4	13497.9	12769.7	14408.0	15395.5
52.5°	12458.0	12191.2	11637.6	11894.5	12388.2	12849.5	15136.2	15058.9	13545.2	15158.6	15951.6
55°	13460.5	13270.9	13081.4	13348.2	14086.4	14662.4	17161.0	16228.4	14108.8	15762.1	16195.9
57.5°	15156.1	15111.2	14916.7	15188.5	16083.7	16682.2	18973.8	17136.0	14470.4	16076.2	15909.2
60°	17664.7	17592.4	17230.8	17577.4	18744.4	19684.5	20644.5	17951.4	14552.7	15954.1	15083.8
62.5°	20681.9	20435.1	20125.9	20637.0	22237.9	22651.9	22218.0	18435.2	14245.9	14981.6	13093.9
65°	23499.7	23245.4	23252.8	24330.1	26073.1	26354.9	24053.3	18362.9	13348.2	12545.3	9657.7
67.5°	25656.7	25614.3	25918.5	28020.6	30299.8	30105.3	25694.1	17280.7	10687.6	8131.6	5131.8
70°	25766.4	25848.7	26721.4	30269.8	32583.9	32274.7	25554.4	14046.5	6662.9	3740.4	2022.3
71°	24439.8	24993.4	26200.3	30200.0	32718.5	32317.1	24377.4	11764.8	4887.5	2608.3	1458.8
72.5°	20826.6	21118.3	23726.6	28422.1	31653.8	30796.0	21392.6	8246.3	3129.5	1595.9	837.9
75°	11470.6	12188.7	15889.2	22297.8	25317.5	24564.5	13941.7	3917.4	1561.0	872.8	346.6
77.5°	5461.0	5321.3	7752.6	13261.0	17166.0	17126.1	7024.5	1740.5	910.2	591.0	174.6
80°	1561.0	1755.5	2967.4	6303.8	9530.5	9635.3	2698.1	840.3	630.9	461.3	89.8
82.5°	471.3	481.3	1089.7	2787.8	4740.3	4468.5	1012.4	428.9	453.8	366.6	52.4
85°	82.3	102.2	321.7	982.5	1807.9	1371.5	254.3	204.5	299.2	241.9	29.9
87.5°	5.0	7.5	107.2	112.2	159.6	92.3	44.9	29.9	64.8	64.8	17.5
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°	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1
2.5°	5241.6	5256.5	5246.5	5224.1	5186.7	5141.8	5082.0	5032.1	4989.7	4967.3	4994.7
5°	5274.0	5293.9	5244.0	5131.8	4962.3	4777.7	4568.3	4406.2	4279.0	4239.1	4224.2
7.5°	5323.8	5336.3	5201.7	4952.3	4593.2	4156.8	3775.3	3453.6	3204.3	3129.5	3019.8
10°	5388.7	5381.2	5126.8	4663.0	4032.2	3376.3	2785.4	2346.5	2014.8	1895.1	1885.2
12.5°	5488.4	5448.5	5032.1	4269.0	3363.9	2506.1	1775.4	1388.9	1179.5	1109.7	1094.7
15°	5613.1	5518.3	4882.5	3807.7	2575.9	1618.3	1094.7	977.5	950.1	945.1	940.1
17.5°	5760.2	5610.6	4685.5	3241.7	1810.4	1049.8	915.2	912.7	915.2	910.2	907.7
20°	5959.7	5707.9	4451.1	2570.9	1196.9	885.2	872.8	872.8	875.3	872.8	872.8
22.5°	6171.7	5822.6	4161.8	1962.5	902.7	840.3	837.9	842.8	847.8	845.3	845.3
25°	6433.5	5972.2	3780.3	1344.1	807.9	802.9	805.4	815.4	825.4	827.9	825.4
27.5°	6812.5	6156.7	3371.3	925.1	740.6	745.6	770.5	795.5	810.4	812.9	812.9
30°	7238.9	6361.2	2837.7	750.6	685.7	685.7	715.7	763.0	795.5	800.4	802.9
32.5°	7787.5	6598.1	2246.7	675.8	633.4	628.4	655.8	713.2	773.0	790.5	790.5
35°	8465.8	6877.4	1670.7	628.4	596.0	583.5	598.5	645.8	723.1	773.0	778.0
37.5°	9261.2	7141.7	1221.9	586.0	561.1	543.6	553.6	591.0	653.3	728.1	748.1
40°	9996.8	7376.1	912.7	551.1	526.1	513.7	521.2	538.6	591.0	660.8	673.3
42.5°	10799.8	7558.1	725.6	513.7	491.2	486.3	486.3	493.7	528.6	568.5	571.0
45°	11600.2	7622.9	608.4	468.8	453.8	458.8	456.3	451.3	466.3	461.3	461.3
47.5°	12171.3	7545.6	503.7	426.4	426.4	433.9	421.4	404.0	396.5	366.6	369.1
50°	12562.8	7263.9	413.9	376.5	396.5	406.5	381.5	354.1	326.7	294.2	286.8
52.5°	12724.8	6762.6	339.1	311.7	351.6	364.1	334.1	301.7	259.3	231.9	224.4
55°	12620.1	6144.2	281.8	254.3	296.7	311.7	281.8	244.4	197.0	167.1	162.1
57.5°	12158.8	5406.1	239.4	202.0	236.9	246.9	226.9	187.0	139.6	109.7	109.7
60°	11360.8	4643.1	194.5	159.6	177.0	192.0	172.1	134.7	94.8	67.3	62.3
62.5°	9742.5	3770.3	157.1	124.7	124.7	137.1	119.7	97.3	59.8	34.9	32.4
65°	7034.5	2585.9	124.7	92.3	89.8	89.8	74.8	64.8	34.9	15.0	10.0
67.5°	3822.7	1458.8	99.7	69.8	62.3	59.8	47.4	37.4	15.0	2.5	0.0
70°	1503.6	561.1	77.3	47.4	39.9	37.4	24.9	17.5	10.0	0.0	0.0
71°	1019.9	386.5	67.3	39.9	32.4	27.4	19.9	15.0	7.5	0.0	0.0
72.5°	583.5	239.4	52.4	29.9	24.9	19.9	15.0	10.0	7.5	0.0	0.0
75°	254.3	122.2	32.4	22.4	17.5	12.5	10.0	7.5	2.5	0.0	0.0
77.5°	129.7	67.3	22.4	17.5	10.0	7.5	5.0	2.5	0.0	0.0	0.0
80°	72.3	34.9	15.0	10.0	7.5	5.0	2.5	2.5	0.0	0.0	0.0
82.5°	39.9	19.9	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.9	12.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	5.0	0.0	0.0	0.0	0.0	2.5	2.5	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)