

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: P191834

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7050-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-SL2-7050-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 615mA 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: 19429 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 193  
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: 25 FT

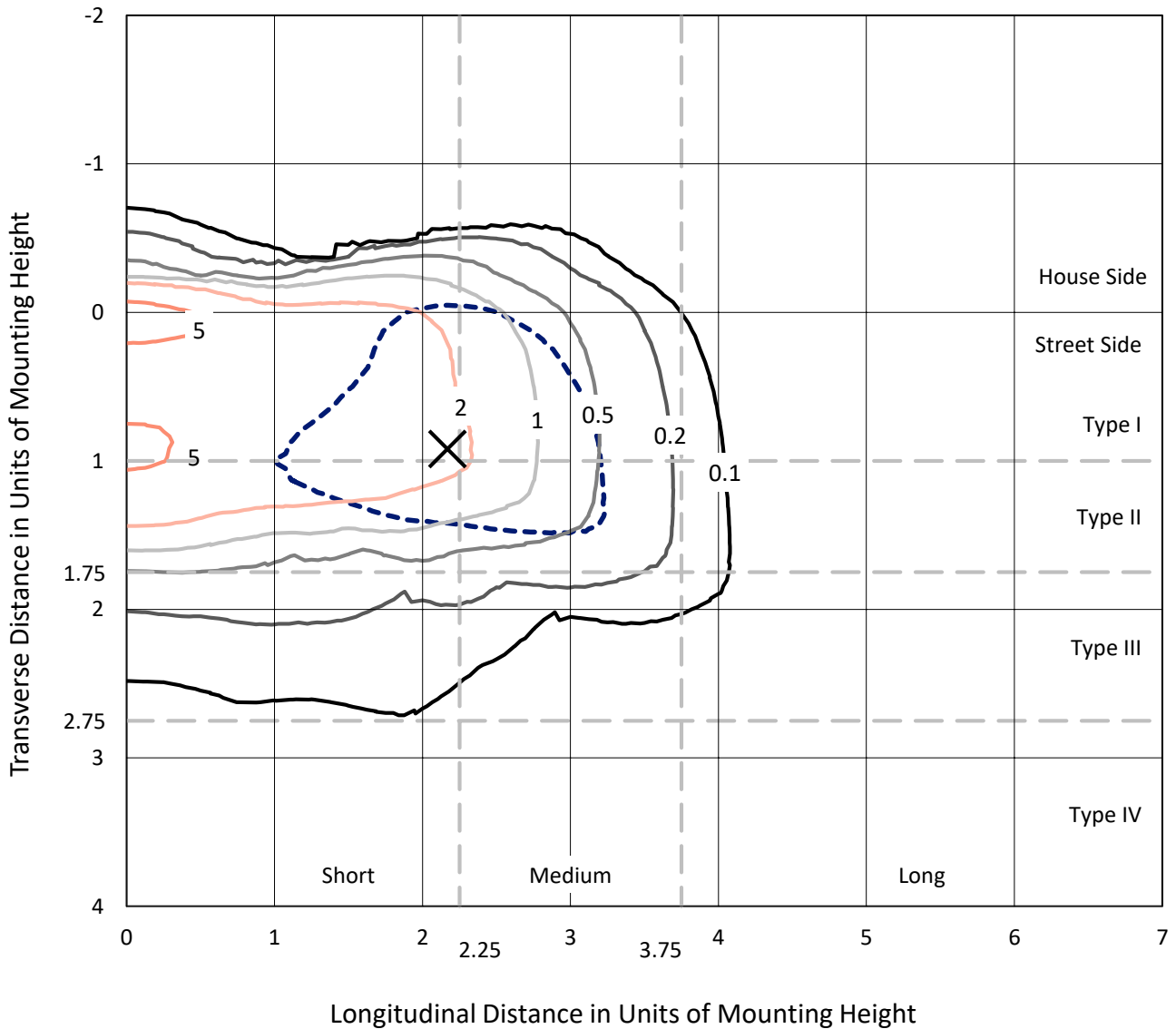


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

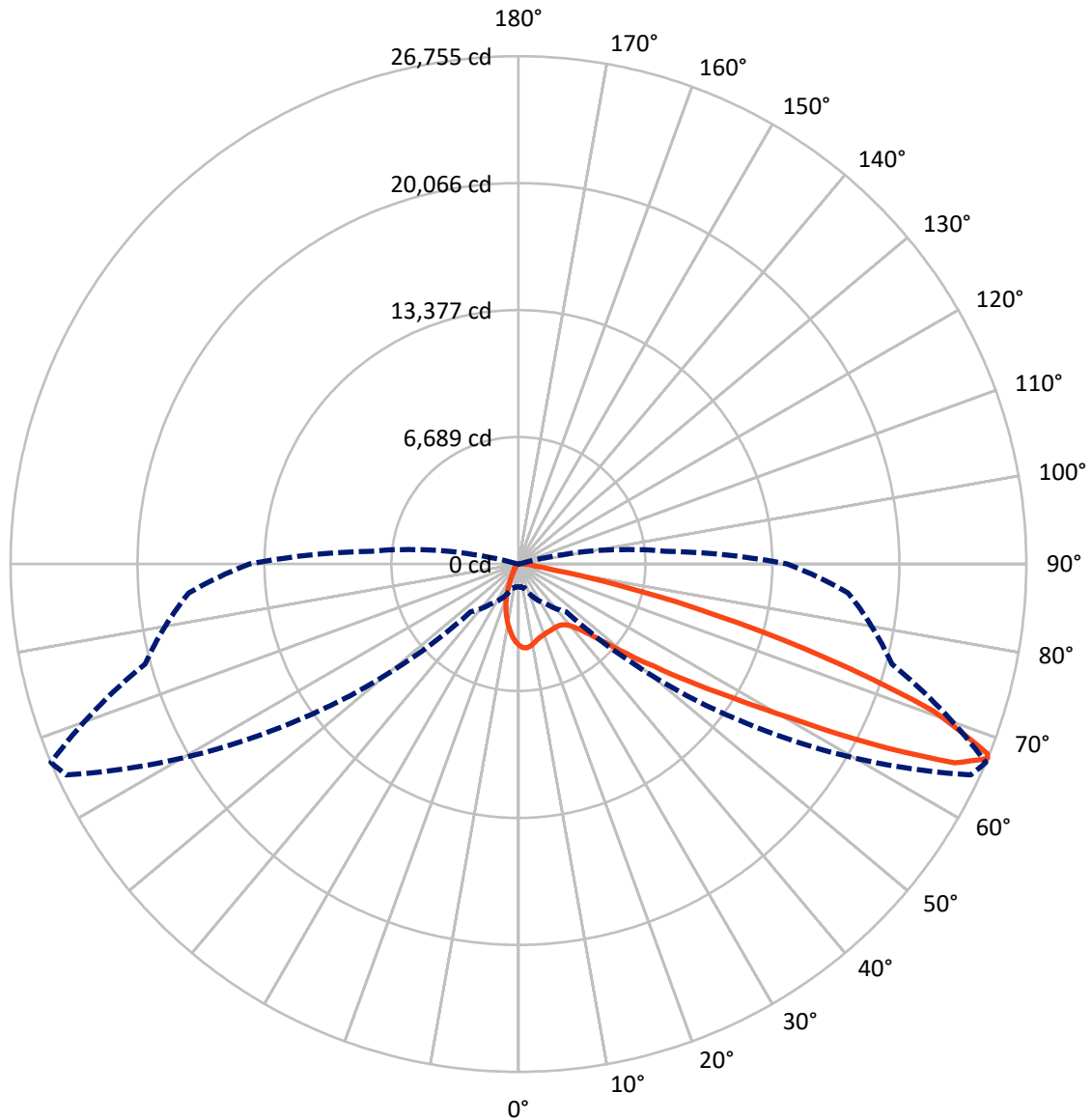


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2017.3	0.0	2017.3
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	17411.7	0.0	17411.7
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	19429.0	0.0	19429.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.6	1.8
10°-20°	742.1	3.8
20°-30°	1078.9	5.6
30°-40°	1683.1	8.7
40°-50°	2981.5	15.3
50°-60°	4718.0	24.3
60°-70°	5403.8	27.8
70°-80°	2241.5	11.5
80°-90°	231.5	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°	19429.0	100.0
0°-180°	19429.0	100.0

**Coefficient of Utilization**



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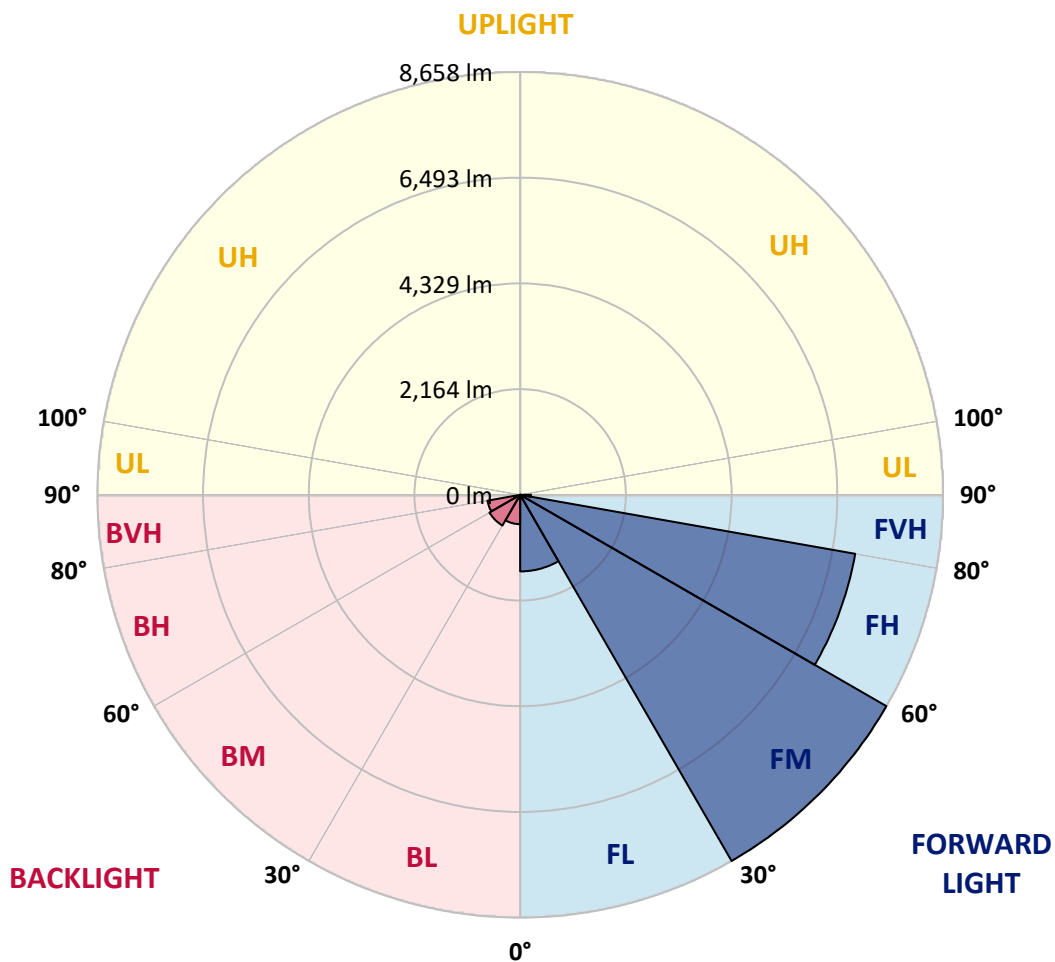
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1567.6	8.1			
FM (30°-60°)	8657.6	44.6			
FH (60°-80°)	6965.3	35.9			G3/7500
FVH (80°-90°)	221.1	1.1			G2/225
BL (0°-30°)	602.0	3.1	B2/1000		
BM (30°-60°)	725.0	3.7	B1/1000		
BH (60°-80°)	679.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	10.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8
2.5°	4429.9	4438.9	4437.8	4444.6	4460.5	4461.6	4445.7	4415.1	4408.3	4368.7	4299.5
5°	4085.4	4111.4	4127.3	4191.9	4264.4	4351.7	4417.4	4441.2	4437.8	4409.5	4305.2
7.5°	3692.1	3718.2	3736.3	3812.2	3908.6	4058.2	4229.3	4369.8	4382.3	4412.9	4300.7
10°	3430.3	3434.9	3459.8	3532.3	3633.2	3786.2	3990.2	4236.1	4273.5	4385.7	4289.3
12.5°	3215.0	3218.4	3251.3	3329.5	3437.1	3591.3	3805.4	4089.9	4147.7	4351.7	4287.1
15°	3062.0	3074.5	3104.0	3185.6	3300.0	3453.0	3672.9	3982.2	4051.4	4339.2	4307.5
17.5°	3011.0	3024.6	3033.7	3092.6	3196.9	3346.5	3572.0	3912.0	3990.2	4346.0	4347.1
20°	3064.3	3074.5	3054.1	3068.8	3133.4	3267.2	3487.0	3851.9	3944.8	4353.9	4398.1
22.5°	3262.6	3267.2	3211.6	3147.0	3135.7	3209.4	3420.1	3804.3	3904.0	4375.5	4458.2
25°	3602.6	3594.7	3504.0	3364.6	3233.2	3199.2	3380.5	3774.9	3883.6	4398.1	4520.5
27.5°	4012.8	4024.2	3899.5	3696.7	3446.2	3267.2	3374.8	3762.4	3874.6	4414.0	4574.9
30°	4511.5	4527.3	4384.5	4129.6	3770.3	3434.9	3426.9	3760.1	3868.9	4403.8	4579.5
32.5°	5020.3	5039.6	4927.4	4664.5	4203.2	3715.9	3544.8	3785.0	3880.2	4368.7	4553.4
35°	5552.9	5580.1	5505.3	5279.8	4790.2	4121.6	3752.2	3861.0	3933.5	4365.3	4527.3
37.5°	6288.4	6313.3	6172.8	5933.7	5500.8	4665.6	4085.4	4003.8	4059.3	4419.7	4534.1
40°	7386.5	7383.1	7020.5	6654.4	6281.6	5356.9	4553.4	4262.1	4290.5	4584.0	4618.0
42.5°	8583.2	8577.6	8041.5	7485.1	7148.5	6207.9	5168.7	4708.6	4689.4	4886.6	4835.6
45°	9505.7	9504.6	9067.1	8440.4	8192.3	7184.8	5964.3	5329.7	5300.2	5378.4	5236.7
47.5°	9898.9	9905.7	9685.9	9245.0	9349.3	8506.2	6967.2	6229.5	6185.3	6153.5	5938.2
50°	9592.9	9606.5	9624.7	9538.6	10198.1	10282.0	8312.4	7497.6	7476.0	7334.4	6997.8
52.5°	8593.4	8662.6	8875.6	9148.7	10492.7	11986.4	10421.4	9072.8	8957.2	8806.5	8435.9
55°	6909.4	6985.3	7389.9	8052.9	10054.2	13106.0	13376.9	11103.6	10910.9	10461.0	9926.1
57.5°	4572.7	4690.5	5277.5	6120.7	8780.4	13286.2	16325.6	13922.0	13251.1	12019.2	11416.3
60°	2519.2	2632.5	3269.4	4033.2	6341.7	12395.5	18308.8	17591.4	16406.0	13761.0	13226.1
62.5°	1551.4	1612.6	2082.9	2793.5	3803.2	9783.3	18719.0	22202.6	20830.2	16003.7	15412.2
65°	1235.2	1261.3	1491.4	2283.5	2726.6	5819.2	17394.2	25717.9	25260.1	18719.0	17369.3
67°	1199.0	1209.2	1318.0	1960.5	2570.2	3567.5	14572.4	26290.2	26754.9	20362.2	17430.5
67.5°	1206.9	1218.2	1321.4	1871.0	2565.7	3278.5	13600.1	26064.7	26651.7	20492.5	17159.6
70°	1163.8	1199.0	1512.9	1869.9	2439.9	2724.3	8144.7	22583.4	23194.2	19040.8	14560.0
72.5°	412.5	414.8	653.9	1512.9	2652.9	2753.8	4089.9	16555.6	17007.8	14565.6	10497.3
75°	244.8	208.5	217.6	430.6	2535.1	2674.5	2359.4	10578.9	10747.7	8346.4	5316.1
77.5°	168.9	147.3	151.9	190.4	965.5	2637.1	1874.4	5516.7	5336.5	2927.2	1132.1
80°	96.3	85.0	90.7	166.6	351.3	2460.3	1767.9	2237.0	1907.3	496.4	312.8
82.5°	51.0	43.1	52.1	137.1	244.8	1533.3	1771.3	1081.1	856.7	167.7	213.1
85°	18.1	14.7	24.9	94.1	163.2	470.3	1642.1	908.9	713.9	81.6	162.1
87.5°	3.4	3.4	10.2	38.5	65.7	143.9	971.2	539.4	361.5	48.7	111.1
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°	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8
2.5°	4271.2	4222.5	4156.8	4076.3	3981.1	3897.2	3834.9	3770.3	3756.7	3734.1	3730.7
5°	4242.9	4159.0	3995.8	3808.8	3609.4	3429.2	3283.0	3152.7	3094.9	3045.0	3039.4
7.5°	4201.0	4075.2	3797.5	3496.1	3184.4	2901.1	2660.9	2490.9	2334.5	2259.7	2248.4
10°	4152.2	3972.0	3574.3	3156.1	2725.5	2325.4	1968.5	1669.3	1488.0	1380.3	1366.7
12.5°	4106.9	3871.2	3346.5	2803.7	2231.4	1696.5	1237.5	951.9	761.5	684.5	675.4
15°	4085.4	3789.6	3133.4	2443.3	1714.6	1080.0	676.5	523.6	461.2	443.1	442.0
17.5°	4083.1	3720.5	2924.9	2070.4	1201.2	627.8	440.8	402.3	389.8	385.3	385.3
20°	4082.0	3654.7	2716.4	1684.0	762.7	418.2	367.2	358.1	349.0	343.4	343.4
22.5°	4094.4	3595.8	2498.8	1289.6	480.5	338.8	323.0	313.9	302.6	294.6	293.5
25°	4106.9	3550.5	2276.7	917.9	347.9	294.6	278.8	266.3	250.4	240.2	239.1
27.5°	4109.2	3493.8	2038.7	614.2	291.2	257.2	236.8	217.6	199.5	189.3	188.1
30°	4075.2	3398.6	1774.7	414.8	257.2	223.2	196.1	175.7	158.7	150.7	150.7
32.5°	4008.3	3280.8	1484.6	312.8	228.9	191.5	162.1	142.8	131.5	128.1	126.9
35°	3948.2	3153.8	1186.5	265.2	205.1	162.1	132.6	120.1	113.3	112.2	111.1
37.5°	3913.1	3051.8	906.6	240.2	182.5	136.0	112.2	103.1	99.7	97.5	98.6
40°	3940.3	2966.8	669.7	219.9	159.8	113.3	95.2	90.7	87.3	86.1	86.1
42.5°	4059.3	2952.1	497.5	201.7	138.3	94.1	82.7	79.3	77.1	75.9	77.1
45°	4372.1	3042.8	386.4	184.7	116.7	79.3	70.3	69.1	68.0	68.0	68.0
47.5°	4842.4	3229.8	321.8	165.5	97.5	68.0	61.2	60.1	58.9	60.1	60.1
50°	5639.0	3572.0	287.8	146.2	80.5	57.8	52.1	52.1	52.1	52.1	53.3
52.5°	6850.5	4245.1	265.2	126.9	65.7	48.7	44.2	44.2	45.3	45.3	46.5
55°	8200.2	5138.1	244.8	107.7	55.5	40.8	36.3	37.4	38.5	39.7	39.7
57.5°	9664.3	6127.5	227.8	88.4	47.6	32.9	30.6	31.7	32.9	35.1	35.1
60°	11431.1	7198.4	202.9	69.1	39.7	26.1	23.8	26.1	29.5	31.7	32.9
62.5°	13371.2	8234.2	171.1	54.4	32.9	20.4	19.3	23.8	28.3	30.6	31.7
65°	14697.1	8559.4	131.5	44.2	24.9	14.7	15.9	21.5	27.2	30.6	30.6
67°	14159.9	7760.5	107.7	37.4	20.4	11.3	14.7	21.5	27.2	29.5	30.6
67.5°	13787.1	7447.7	103.1	36.3	19.3	11.3	14.7	21.5	27.2	30.6	30.6
70°	11218.0	5594.8	86.1	27.2	15.9	10.2	12.5	20.4	26.1	29.5	29.5
72.5°	7794.5	3449.6	77.1	19.3	13.6	9.1	11.3	19.3	24.9	28.3	29.5
75°	3705.7	1248.8	65.7	14.7	12.5	7.9	10.2	19.3	24.9	28.3	28.3
77.5°	755.9	290.1	53.3	12.5	10.2	7.9	9.1	18.1	23.8	27.2	27.2
80°	248.2	112.2	39.7	11.3	10.2	7.9	9.1	17.0	23.8	26.1	27.2
82.5°	179.1	56.7	26.1	11.3	10.2	7.9	7.9	17.0	22.7	26.1	26.1
85°	137.1	39.7	17.0	11.3	10.2	7.9	7.9	15.9	21.5	24.9	24.9
87.5°	90.7	15.9	13.6	11.3	10.2	7.9	7.9	15.9	20.4	23.8	24.9
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)