

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: P191035

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191035  
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-07-LED-E1-SL2-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 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: 23504.3 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 226  
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

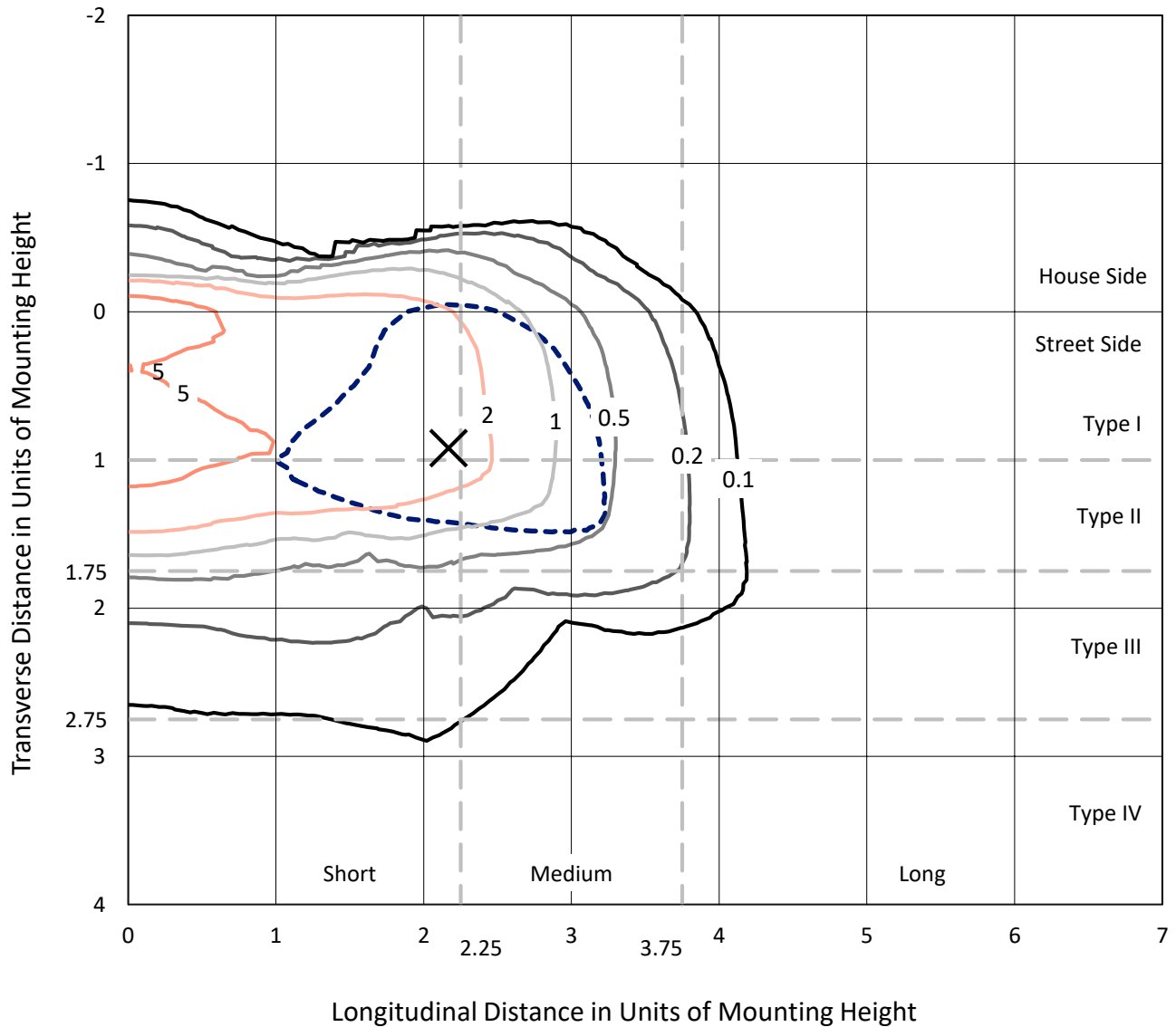


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### Iso-Footcandle Lines of Horizontal Illumination

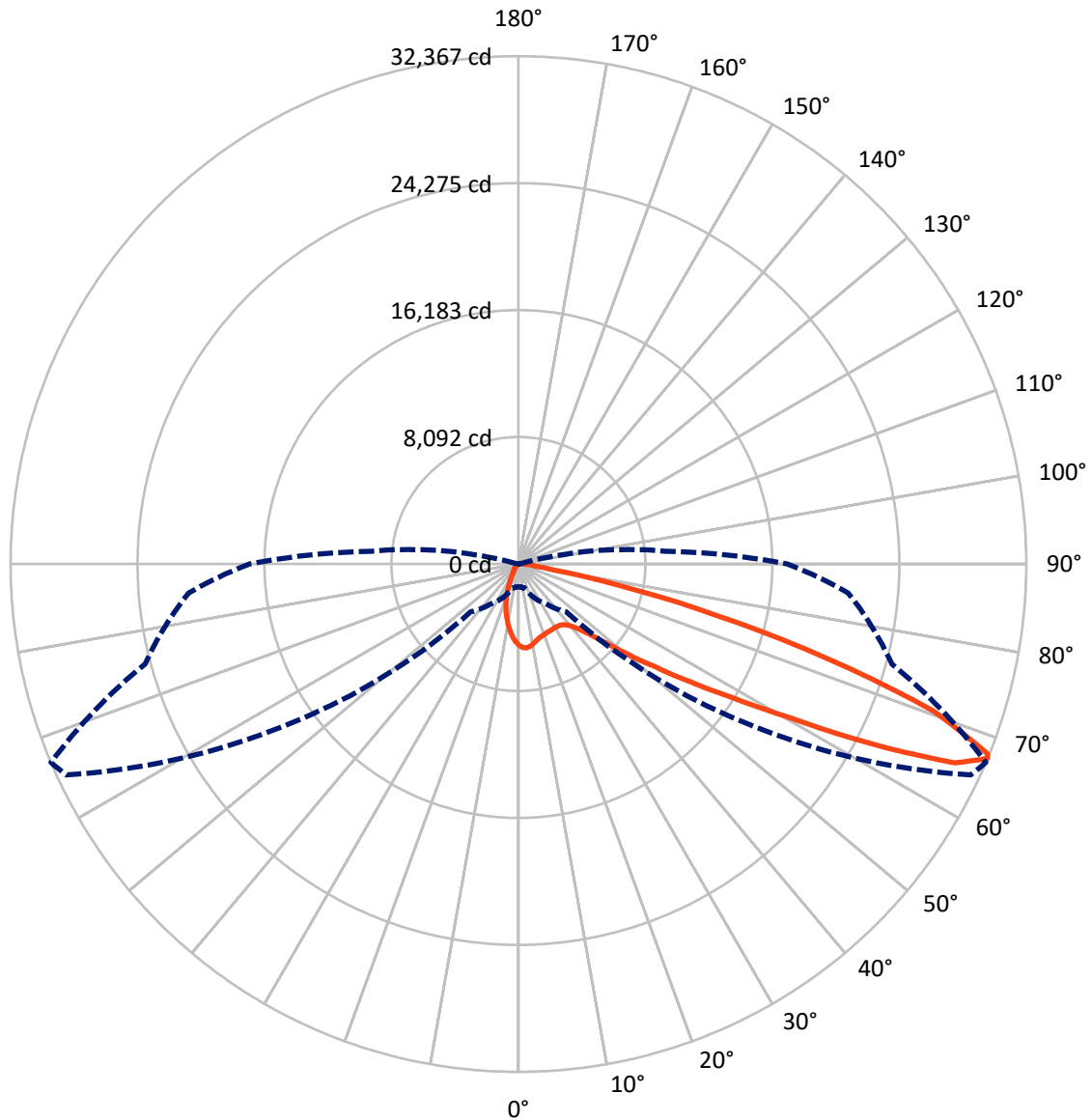
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	2440.4	0.0	2440.4
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	21063.9	0.0	21063.9
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	23504.3	0.0	23504.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.8	1.8
10°-20°	897.7	3.8
20°-30°	1305.2	5.6
30°-40°	2036.1	8.7
40°-50°	3606.9	15.3
50°-60°	5707.6	24.3
60°-70°	6537.3	27.8
70°-80°	2711.6	11.5
80°-90°	280.1	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°	23504.3	100.0
0°-180°	23504.3	100.0

**Coefficient of Utilization**



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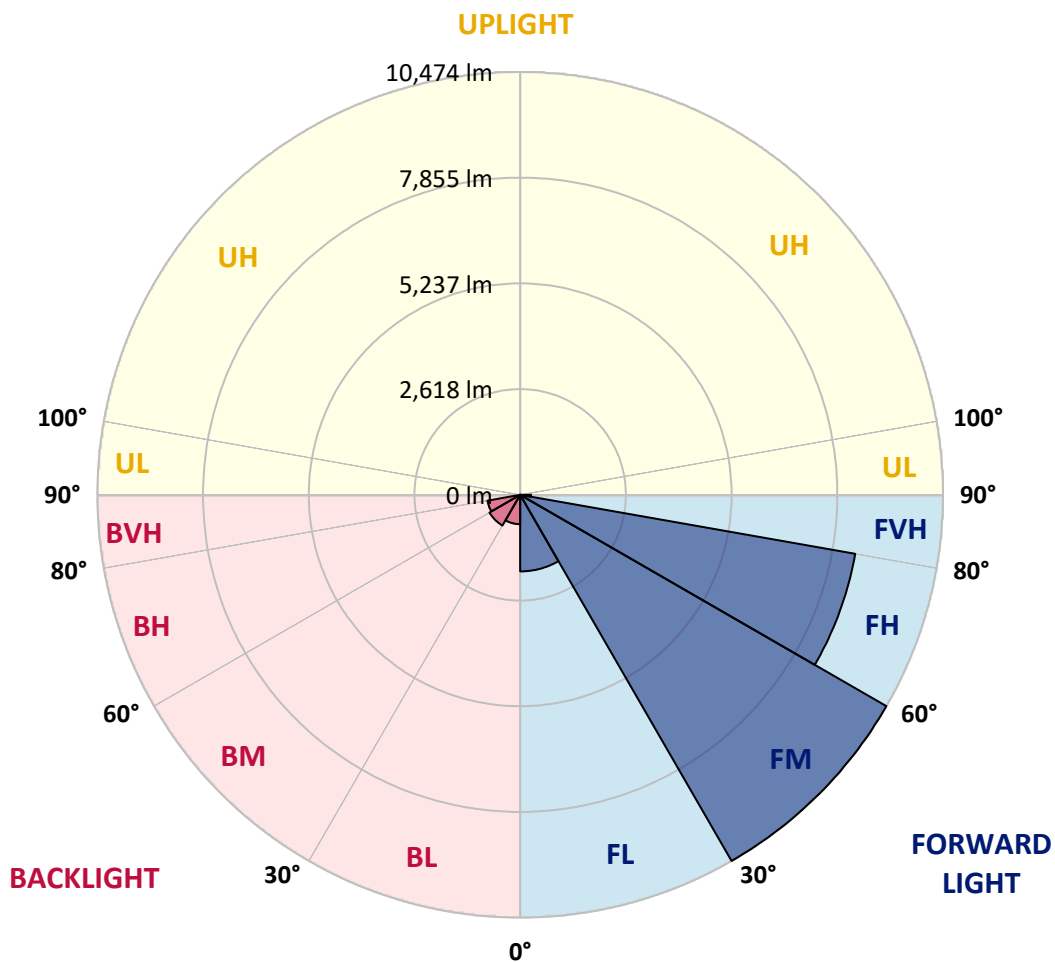
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1896.4	8.1			
FM (30°-60°)	10473.6	44.6			
FH (60°-80°)	8426.4	35.9			G4/12000
FVH (80°-90°)	267.5	1.1			G3/500
BL (0°-30°)	728.2	3.1	B2/1000		
BM (30°-60°)	877.1	3.7	B1/1000		
BH (60°-80°)	822.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	12.6	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5183.6	5183.6	5183.6	5183.6	5183.6	5183.6	5183.6	5183.6	5183.6	5183.6	5183.6
2.5°	5359.0	5370.0	5368.7	5376.8	5396.1	5397.4	5378.3	5341.2	5333.1	5285.1	5201.4
5°	4942.3	4973.8	4993.0	5071.2	5158.9	5264.4	5344.0	5372.7	5368.7	5334.4	5208.3
7.5°	4466.6	4498.1	4520.0	4611.9	4728.4	4909.3	5116.4	5286.4	5301.4	5338.5	5202.7
10°	4149.9	4155.3	4185.5	4273.3	4395.3	4580.4	4827.1	5124.6	5169.9	5305.6	5189.0
12.5°	3889.4	3893.6	3933.2	4027.9	4158.1	4344.6	4603.7	4947.8	5017.7	5264.4	5186.4
15°	3704.3	3719.3	3755.0	3853.8	3992.2	4177.3	4443.3	4817.5	4901.2	5249.4	5211.0
17.5°	3642.6	3659.1	3670.0	3741.3	3867.5	4048.4	4321.3	4732.6	4827.1	5257.6	5259.0
20°	3707.1	3719.3	3694.7	3712.5	3790.6	3952.5	4218.4	4659.8	4772.3	5267.2	5320.7
22.5°	3947.0	3952.5	3885.3	3807.1	3793.4	3882.5	4137.5	4602.3	4723.0	5293.3	5393.3
25°	4358.3	4348.7	4239.0	4070.3	3911.4	3870.2	4089.6	4566.7	4698.2	5320.7	5468.7
27.5°	4854.5	4868.2	4717.4	4472.0	4169.0	3952.5	4082.7	4551.5	4687.3	5339.9	5534.6
30°	5457.7	5477.0	5304.2	4995.8	4561.1	4155.3	4145.7	4548.9	4680.4	5327.5	5540.0
32.5°	6073.4	6096.6	5960.9	5642.8	5084.9	4495.4	4288.3	4579.0	4694.1	5285.1	5508.5
35°	6717.7	6750.6	6660.1	6387.3	5795.0	4986.2	4539.2	4670.8	4758.6	5280.9	5477.0
37.5°	7607.4	7637.6	7467.5	7178.4	6654.6	5644.2	4942.3	4843.6	4910.8	5346.8	5485.2
40°	8935.9	8931.8	8493.0	8050.2	7599.2	6480.5	5508.5	5156.2	5190.5	5545.5	5586.6
42.5°	10383.6	10376.7	9728.3	9055.2	8647.9	7510.1	6252.9	5696.3	5673.0	5911.5	5849.8
45°	11499.6	11498.2	10969.0	10210.9	9910.7	8691.8	7215.3	6447.6	6412.0	6506.6	6335.1
47.5°	11975.3	11983.5	11717.5	11184.2	11310.4	10290.4	8428.6	7536.2	7482.7	7444.3	7183.8
50°	11605.2	11621.5	11643.5	11539.3	12337.2	12438.7	10055.9	9070.2	9044.2	8872.8	8465.6
52.5°	10395.9	10479.6	10737.3	11067.7	12693.7	14500.5	12607.3	10975.9	10836.0	10653.7	10205.4
55°	8358.7	8450.6	8940.0	9742.0	12163.1	15855.1	16182.8	13432.6	13199.5	12655.2	12008.2
57.5°	5531.8	5674.4	6384.5	7404.5	10622.1	16073.0	19749.9	16842.2	16030.6	14540.3	13811.0
60°	3047.7	3184.8	3955.2	4879.3	7671.8	14995.5	22149.1	21281.3	19847.3	16647.5	16000.4
62.5°	1876.8	1950.9	2519.8	3379.4	4600.9	11835.4	22645.4	26859.7	25199.5	19360.6	18645.0
65°	1494.3	1525.8	1804.2	2762.5	3298.5	7039.8	21042.8	31112.4	30558.5	22645.4	21012.6
67°	1450.4	1462.8	1594.4	2371.7	3109.4	4315.7	17629.1	31804.8	32366.9	24633.3	21086.6
67.5°	1460.1	1473.8	1598.6	2263.5	3103.8	3966.2	16452.8	31531.9	32242.1	24790.9	20758.9
70°	1408.0	1450.4	1830.3	2262.1	2951.6	3295.7	9853.1	27320.4	28059.3	23034.8	17614.0
72.5°	499.0	501.8	791.0	1830.3	3209.4	3331.4	4947.8	20028.3	20575.2	17620.8	12699.1
75°	296.1	252.3	263.2	521.0	3066.8	3235.5	2854.3	12797.8	13002.1	10097.0	6431.2
77.5°	204.3	178.2	183.7	230.4	1168.0	3190.2	2267.6	6673.8	6455.8	3541.1	1369.6
80°	116.5	102.8	109.7	201.5	425.0	2976.4	2138.7	2706.2	2307.3	600.5	378.4
82.5°	61.7	52.1	63.0	165.9	296.1	1854.9	2142.8	1307.8	1036.5	202.9	257.8
85°	21.9	17.8	30.2	113.8	197.4	569.0	1986.5	1099.5	863.7	98.7	196.0
87.5°	4.1	4.1	12.4	46.6	79.5	174.1	1174.9	652.5	437.3	58.9	134.3
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°	5183.6	5183.6	5183.6	5183.6	5183.6	5183.6	5183.6	5183.6	5183.6	5183.6	5183.6
2.5°	5167.1	5108.2	5028.6	4931.3	4816.2	4714.7	4639.3	4561.1	4544.7	4517.2	4513.2
5°	5132.9	5031.4	4834.0	4607.8	4366.5	4148.5	3971.6	3814.0	3744.1	3683.7	3676.9
7.5°	5082.1	4929.9	4594.1	4229.4	3852.3	3509.6	3219.0	3013.3	2824.2	2733.6	2719.9
10°	5023.2	4805.2	4324.0	3818.1	3297.2	2813.2	2381.3	2019.4	1800.1	1669.9	1653.4
12.5°	4968.4	4683.2	4048.4	3391.7	2699.4	2052.3	1497.1	1151.6	921.3	828.1	817.1
15°	4942.3	4584.5	3790.6	2955.8	2074.2	1306.5	818.5	633.4	558.0	536.0	534.7
17.5°	4939.5	4500.9	3538.4	2504.7	1453.2	759.5	533.3	486.7	471.6	466.2	466.2
20°	4938.2	4421.3	3286.1	2037.2	922.7	505.8	444.2	433.2	422.3	415.4	415.4
22.5°	4953.2	4350.0	3022.9	1560.1	581.2	409.9	390.8	379.7	366.0	356.5	355.1
25°	4968.4	4295.2	2754.3	1110.5	420.8	356.5	337.3	322.1	303.0	290.6	289.3
27.5°	4971.0	4226.6	2466.3	743.1	352.3	311.2	286.5	263.2	241.3	228.9	227.6
30°	4929.9	4111.4	2146.9	501.8	311.2	270.1	237.2	212.5	191.9	182.3	182.3
32.5°	4849.1	3968.9	1796.0	378.4	276.9	231.7	196.0	172.8	159.1	154.9	153.5
35°	4776.4	3815.4	1435.4	320.8	248.2	196.0	160.4	145.4	137.1	135.7	134.3
37.5°	4733.9	3691.9	1096.8	290.6	220.8	164.5	135.7	124.8	120.6	117.9	119.3
40°	4766.8	3589.1	810.3	266.0	193.3	137.1	115.2	109.7	105.6	104.2	104.2
42.5°	4910.8	3571.3	601.8	244.1	167.3	113.8	100.0	96.0	93.2	91.9	93.2
45°	5289.2	3681.0	467.5	223.5	141.2	96.0	85.0	83.7	82.2	82.2	82.2
47.5°	5858.1	3907.3	389.3	200.2	117.9	82.2	74.1	72.6	71.3	72.6	72.6
50°	6821.9	4321.3	348.2	176.9	97.4	69.9	63.0	63.0	63.0	63.0	64.4
52.5°	8287.4	5135.6	320.8	153.5	79.5	58.9	53.5	53.5	54.8	54.8	56.2
55°	9920.3	6215.9	296.1	130.2	67.2	49.3	43.9	45.2	46.6	48.0	48.0
57.5°	11691.5	7412.7	275.6	106.9	57.6	39.8	37.0	38.4	39.8	42.5	42.5
60°	13828.8	8708.3	245.4	83.7	48.0	31.5	28.7	31.5	35.6	38.4	39.8
62.5°	16175.9	9961.4	207.0	65.8	39.8	24.7	23.3	28.7	34.3	37.0	38.4
65°	17779.9	10354.8	159.1	53.5	30.2	17.8	19.2	26.1	32.9	37.0	37.0
67°	17130.0	9388.3	130.2	45.2	24.7	13.7	17.8	26.1	32.9	35.6	37.0
67.5°	16679.0	9009.9	124.8	43.9	23.3	13.7	17.8	26.1	32.9	37.0	37.0
70°	13571.1	6768.4	104.2	32.9	19.2	12.4	15.0	24.7	31.5	35.6	35.6
72.5°	9429.5	4173.2	93.2	23.3	16.5	10.9	13.7	23.3	30.2	34.3	35.6
75°	4483.0	1510.8	79.5	17.8	15.0	9.6	12.4	23.3	30.2	34.3	34.3
77.5°	914.4	351.0	64.4	15.0	12.4	9.6	10.9	21.9	28.7	32.9	32.9
80°	300.2	135.7	48.0	13.7	12.4	9.6	10.9	20.6	28.7	31.5	32.9
82.5°	216.7	68.5	31.5	13.7	12.4	9.6	9.6	20.6	27.4	31.5	31.5
85°	165.9	48.0	20.6	13.7	12.4	9.6	9.6	19.2	26.1	30.2	30.2
87.5°	109.7	19.2	16.5	13.7	12.4	9.6	9.6	19.2	24.7	28.7	30.2
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)