

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: P191843

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7050-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191843  
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-05-LED-E1-SL2-7050-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 800mA 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: 19909 lumens  
Efficiency: N/A  
Efficacy: 94.8 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): 210  
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

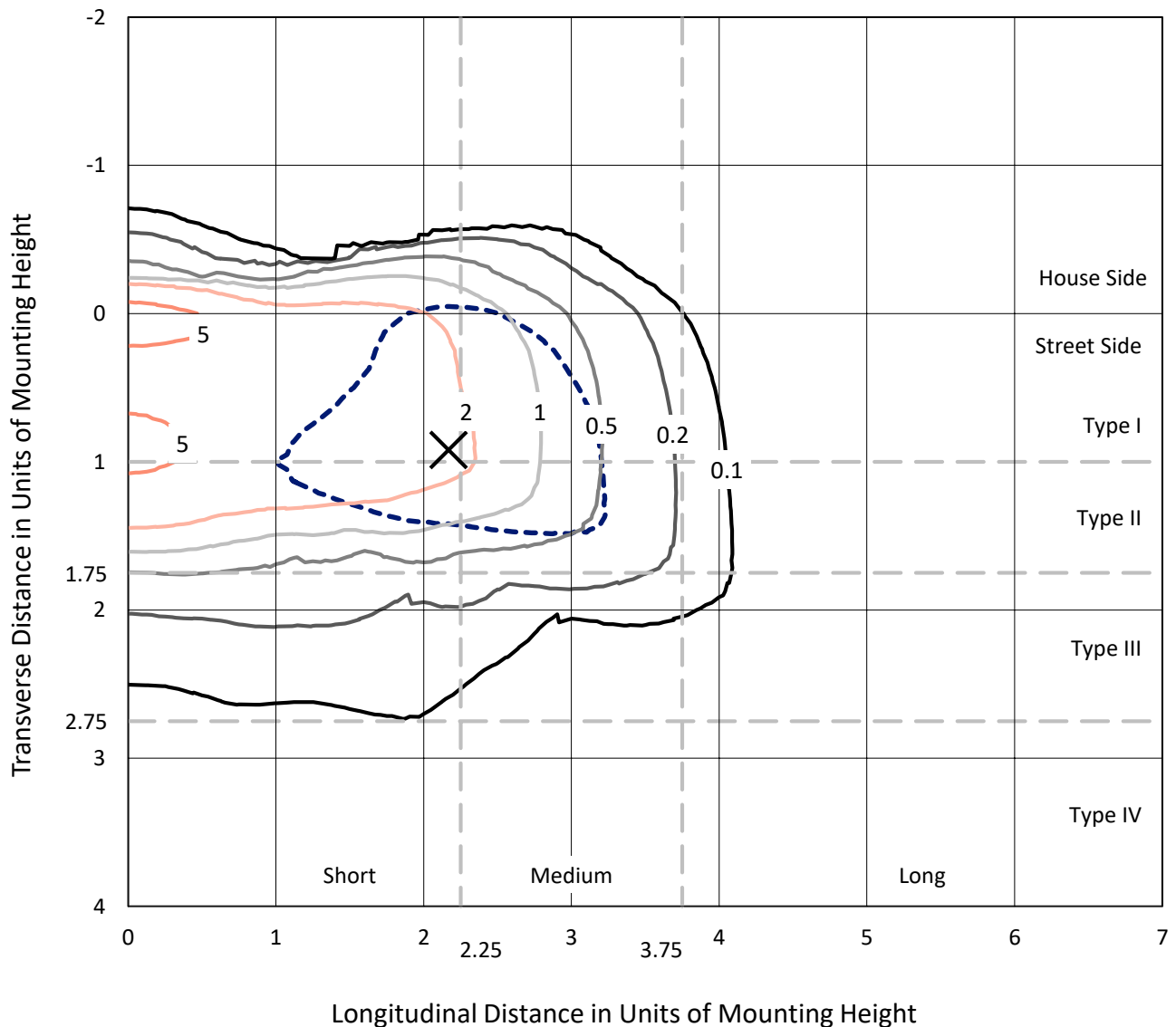


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### Iso-Footcandle Lines of Horizontal Illumination

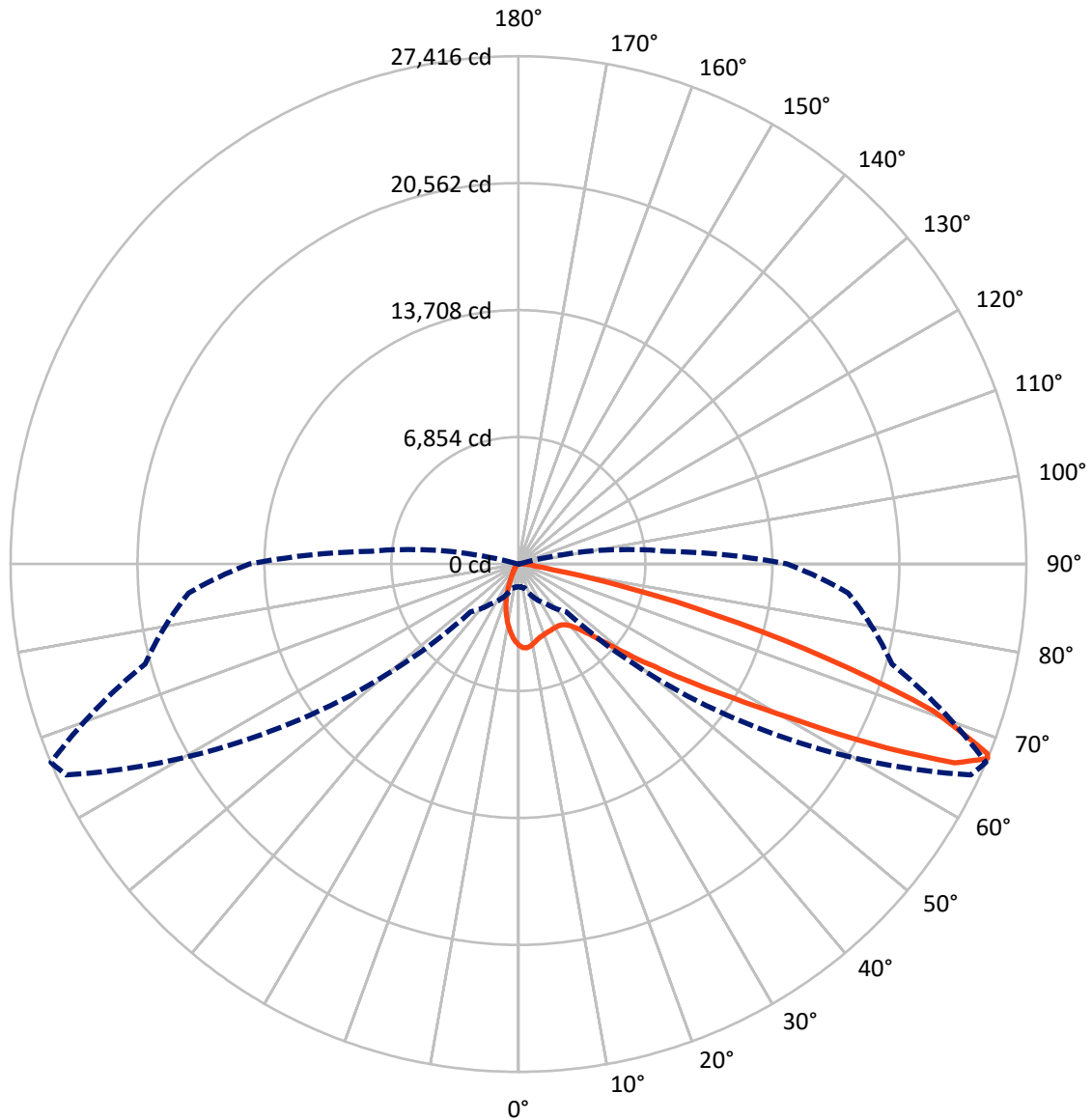
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	2067.2	0.0	2067.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	17841.9	0.0	17841.9
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	19909.0	0.0	19909.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.3	1.8
10°-20°	760.4	3.8
20°-30°	1105.5	5.6
30°-40°	1724.7	8.7
40°-50°	3055.2	15.3
50°-60°	4834.5	24.3
60°-70°	5537.3	27.8
70°-80°	2296.8	11.5
80°-90°	237.2	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°	19909.0	100.0
0°-180°	19909.0	100.0

**Coefficient of Utilization**



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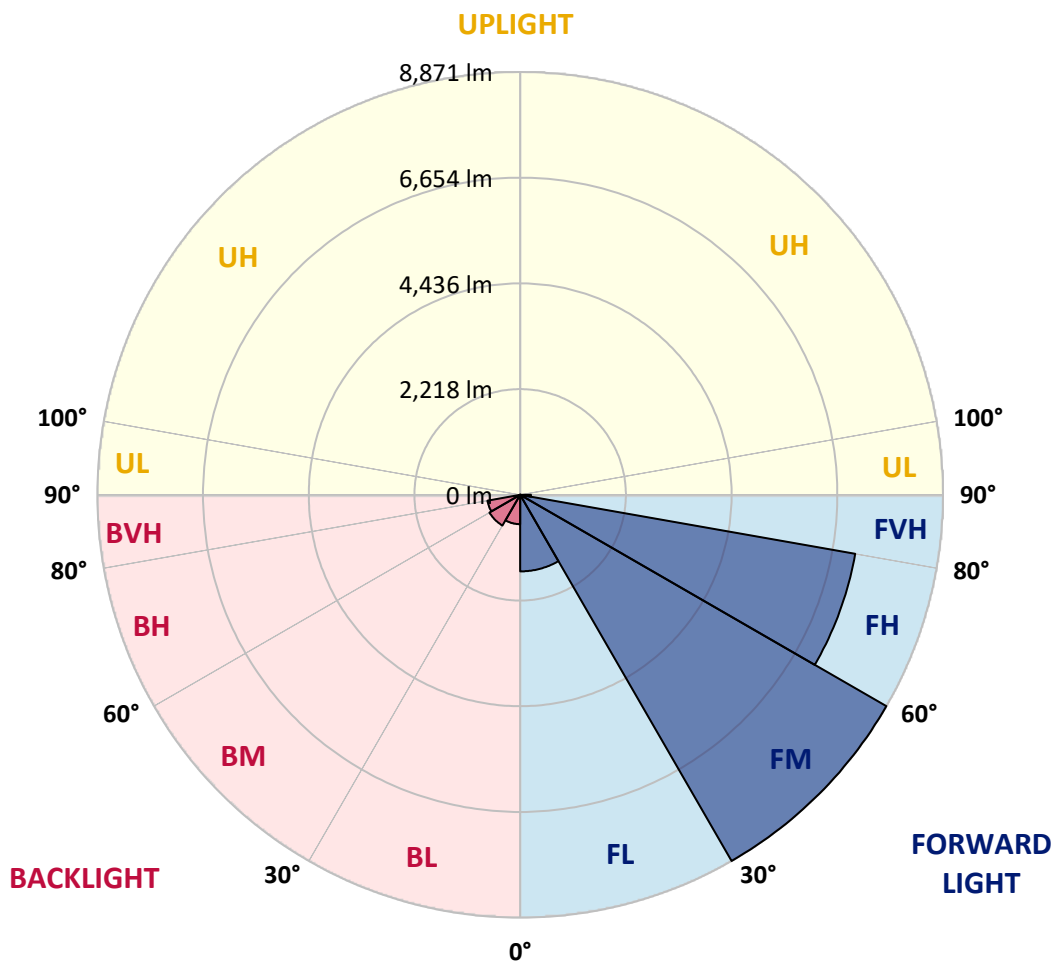
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1606.4	8.1			
FM (30°-60°)	8871.5	44.6			
FH (60°-80°)	7137.4	35.9			G3/7500
FVH (80°-90°)	226.6	1.1			G3/500
BL (0°-30°)	616.8	3.1	B2/1000		
BM (30°-60°)	742.9	3.7	B1/1000		
BH (60°-80°)	696.7	3.5	B2/1000		G2/1000
BVH (80°-90°)	10.7	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°	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7
2.5°	4539.3	4548.6	4547.4	4554.4	4570.7	4571.8	4555.6	4524.2	4517.2	4476.6	4405.8
5°	4186.3	4213.0	4229.3	4295.4	4369.8	4459.2	4526.5	4550.9	4547.4	4518.4	4411.6
7.5°	3783.3	3810.0	3828.6	3906.4	4005.1	4158.4	4333.8	4477.8	4490.5	4521.9	4406.9
10°	3515.1	3519.7	3545.3	3619.6	3723.0	3879.7	4088.7	4340.7	4379.1	4494.0	4395.3
12.5°	3294.5	3297.9	3331.6	3411.7	3522.1	3680.0	3899.5	4190.9	4250.2	4459.2	4393.0
15°	3137.7	3150.5	3180.7	3264.3	3381.5	3538.3	3763.6	4080.6	4151.5	4446.4	4413.9
17.5°	3085.4	3099.4	3108.7	3169.0	3275.9	3429.2	3660.2	4008.6	4088.7	4453.4	4454.5
20°	3140.0	3150.5	3129.6	3144.7	3210.8	3347.9	3573.2	3947.1	4042.3	4461.5	4506.8
22.5°	3343.2	3347.9	3291.0	3224.8	3213.2	3288.6	3504.6	3898.3	4000.5	4483.6	4568.3
25°	3691.6	3683.5	3590.6	3447.7	3313.0	3278.2	3464.0	3868.1	3979.6	4506.8	4632.2
27.5°	4112.0	4123.6	3995.8	3788.0	3531.3	3347.9	3458.2	3855.3	3970.3	4523.1	4687.9
30°	4622.9	4639.2	4492.9	4231.6	3863.5	3519.7	3511.6	3853.0	3964.5	4512.6	4692.6
32.5°	5144.3	5164.1	5049.1	4779.7	4307.1	3807.7	3632.4	3878.6	3976.1	4476.6	4665.9
35°	5690.1	5718.0	5641.3	5410.2	4908.6	4223.5	3844.9	3956.4	4030.7	4473.1	4639.2
37.5°	6443.8	6469.3	6325.3	6080.3	5636.7	4780.8	4186.3	4102.7	4159.6	4528.9	4646.1
40°	7569.0	7565.5	7193.9	6818.8	6436.8	5489.2	4665.9	4367.4	4396.5	4697.2	4732.1
42.5°	8795.3	8789.5	8240.2	7670.0	7325.1	6361.3	5296.4	4825.0	4805.2	5007.3	4955.0
45°	9740.5	9739.4	9291.1	8649.0	8394.6	7362.3	6111.6	5461.3	5431.1	5511.3	5366.1
47.5°	10143.5	10150.4	9925.2	9473.4	9580.3	8716.3	7139.3	6383.4	6338.1	6305.6	6084.9
50°	9829.9	9843.9	9862.5	9774.2	10450.0	10536.0	8517.7	7682.8	7660.7	7515.6	7170.7
52.5°	8805.7	8876.6	9094.9	9374.7	10752.0	12282.5	10678.8	9296.9	9178.5	9024.0	8644.3
55°	7080.1	7157.9	7572.5	8251.8	10302.6	13429.8	13707.3	11377.9	11180.5	10719.5	10171.4
57.5°	4685.6	4806.4	5407.9	6271.9	8997.3	13614.4	16728.9	14265.9	13578.4	12316.2	11698.4
60°	2581.4	2697.6	3350.2	4132.9	6498.3	12701.7	18761.1	18026.0	16811.4	14101.0	13552.9
62.5°	1589.7	1652.5	2134.4	2862.5	3897.1	10025.0	19181.5	22751.1	21344.9	16399.1	15792.9
65°	1265.8	1292.5	1528.2	2339.9	2794.0	5963.0	17824.0	26353.3	25884.2	19181.5	17798.4
67°	1228.6	1239.0	1350.5	2009.0	2633.7	3655.6	14932.5	26939.7	27415.8	20865.3	17861.1
67.5°	1236.7	1248.3	1354.0	1917.2	2629.1	3359.5	13936.1	26708.6	27310.2	20998.8	17583.6
70°	1192.6	1228.6	1550.3	1916.1	2500.2	2791.6	8345.9	23141.3	23767.2	19511.2	14919.7
72.5°	422.7	425.0	670.0	1550.3	2718.5	2821.8	4190.9	16964.6	17428.0	14925.5	10756.6
75°	250.8	213.7	223.0	441.3	2597.7	2740.5	2417.7	10840.2	11013.3	8552.6	5447.4
77.5°	173.0	151.0	155.6	195.1	989.4	2702.2	1920.7	5652.9	5468.3	2999.5	1160.1
80°	98.7	87.1	92.9	170.7	360.0	2521.1	1811.5	2292.3	1954.4	508.6	320.5
82.5°	52.3	44.1	53.4	140.5	250.8	1571.2	1815.0	1107.8	877.9	171.9	218.3
85°	18.6	15.1	25.5	96.4	167.2	481.9	1682.6	931.3	731.6	83.6	166.1
87.5°	3.5	3.5	10.5	39.5	67.4	147.5	995.2	552.8	370.4	49.9	113.8
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°	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7
2.5°	4376.7	4326.8	4259.4	4177.0	4079.5	3993.5	3929.7	3863.5	3849.5	3826.3	3822.8
5°	4347.7	4261.8	4094.6	3902.9	3698.6	3513.9	3364.1	3230.6	3171.4	3120.3	3114.5
7.5°	4304.7	4175.8	3891.3	3582.4	3263.1	2972.8	2726.6	2552.4	2392.2	2315.5	2303.9
10°	4254.8	4070.2	3662.6	3234.1	2792.8	2382.9	2017.1	1710.5	1524.7	1414.4	1400.5
12.5°	4208.4	3966.8	3429.2	2872.9	2286.5	1738.4	1268.1	975.4	780.4	701.4	692.1
15°	4186.3	3883.2	3210.8	2503.6	1757.0	1106.7	693.3	536.5	472.6	454.0	452.9
17.5°	4184.0	3812.4	2997.2	2121.6	1230.9	643.3	451.7	412.2	399.5	394.8	394.8
20°	4182.8	3745.0	2783.5	1725.6	781.5	428.5	376.2	367.0	357.7	351.9	351.9
22.5°	4195.6	3684.6	2560.5	1321.5	492.4	347.2	331.0	321.7	310.1	301.9	300.8
25°	4208.4	3638.2	2332.9	940.6	356.5	301.9	285.7	272.9	256.6	246.2	245.0
27.5°	4210.7	3580.1	2089.1	629.4	298.4	263.6	242.7	223.0	204.4	193.9	192.8
30°	4175.8	3482.6	1818.5	425.0	263.6	228.8	200.9	180.0	162.6	154.4	154.4
32.5°	4107.3	3361.8	1521.2	320.5	234.6	196.3	166.1	146.3	134.7	131.2	130.1
35°	4045.8	3231.7	1215.8	271.7	210.2	166.1	135.9	123.1	116.1	115.0	113.8
37.5°	4009.8	3127.2	929.0	246.2	187.0	139.3	115.0	105.7	102.2	99.9	101.0
40°	4037.7	3040.1	686.3	225.3	163.7	116.1	97.5	92.9	89.4	88.3	88.3
42.5°	4159.6	3025.0	509.8	206.7	141.7	96.4	84.8	81.3	79.0	77.8	79.0
45°	4480.1	3117.9	396.0	189.3	119.6	81.3	72.0	70.8	69.7	69.7	69.7
47.5°	4962.0	3309.6	329.8	169.5	99.9	69.7	62.7	61.5	60.4	61.5	61.5
50°	5778.4	3660.2	295.0	149.8	82.4	59.2	53.4	53.4	53.4	53.4	54.6
52.5°	7019.7	4350.0	271.7	130.1	67.4	49.9	45.3	45.3	46.4	46.4	47.6
55°	8402.8	5265.1	250.8	110.3	56.9	41.8	37.2	38.3	39.5	40.6	40.6
57.5°	9903.1	6278.9	233.4	90.6	48.8	33.7	31.4	32.5	33.7	36.0	36.0
60°	11713.5	7376.2	207.9	70.8	40.6	26.7	24.4	26.7	30.2	32.5	33.7
62.5°	13701.5	8437.6	175.3	55.7	33.7	20.9	19.7	24.4	29.0	31.4	32.5
65°	15060.2	8770.9	134.7	45.3	25.5	15.1	16.3	22.1	27.9	31.4	31.4
67°	14509.8	7952.2	110.3	38.3	20.9	11.6	15.1	22.1	27.9	30.2	31.4
67.5°	14127.7	7631.7	105.7	37.2	19.7	11.6	15.1	22.1	27.9	31.4	31.4
70°	11495.2	5733.1	88.3	27.9	16.3	10.5	12.8	20.9	26.7	30.2	30.2
72.5°	7987.0	3534.8	79.0	19.7	13.9	9.3	11.6	19.7	25.5	29.0	30.2
75°	3797.3	1279.7	67.4	15.1	12.8	8.1	10.5	19.7	25.5	29.0	29.0
77.5°	774.6	297.3	54.6	12.8	10.5	8.1	9.3	18.6	24.4	27.9	27.9
80°	254.3	115.0	40.6	11.6	10.5	8.1	9.3	17.4	24.4	26.7	27.9
82.5°	183.5	58.1	26.7	11.6	10.5	8.1	8.1	17.4	23.2	26.7	26.7
85°	140.5	40.6	17.4	11.6	10.5	8.1	8.1	16.3	22.1	25.5	25.5
87.5°	92.9	16.3	13.9	11.6	10.5	8.1	8.1	16.3	20.9	24.4	25.5
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)