

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: P269549

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7027-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269549  
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-08-LED-E1-SL2-7027-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 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: 27735.7 lumens  
Efficiency: N/A  
Efficacy: 83.0 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): 334  
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

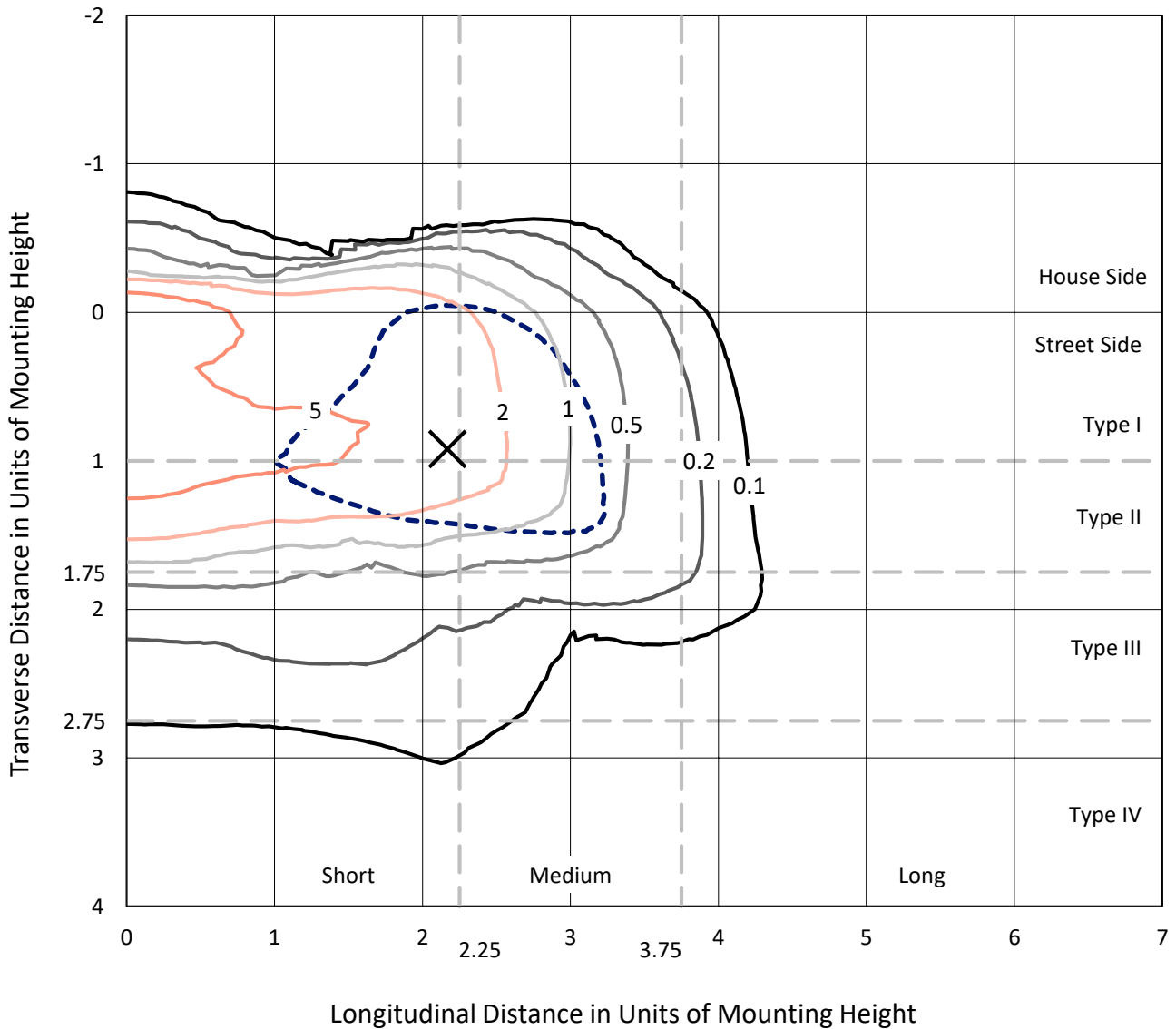


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

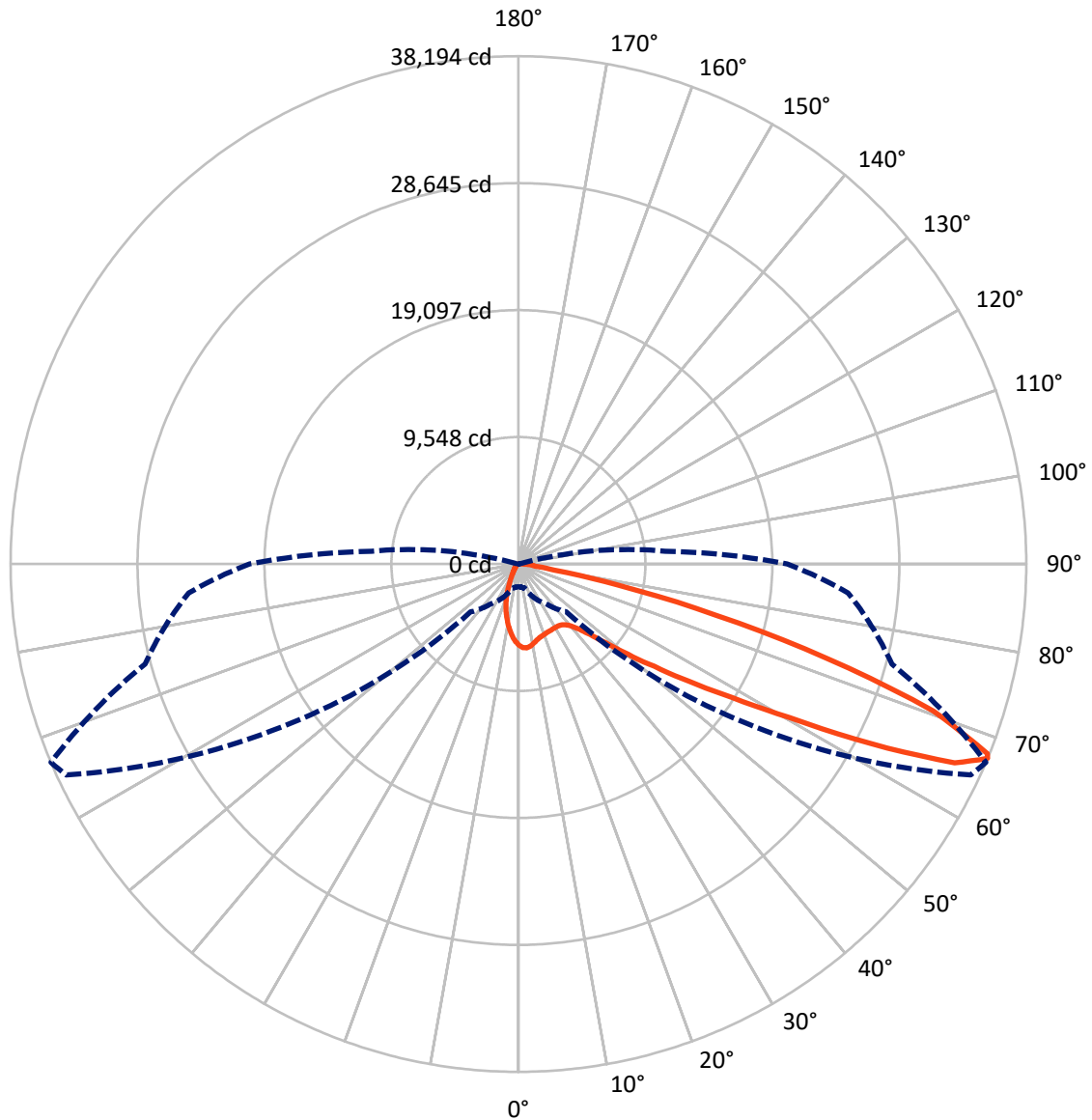


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Short - Semi-Cutoff

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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	2879.8	0.0	2879.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	24855.9	0.0	24855.9
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	27735.7	0.0	27735.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	497.7	1.8
10°-20°	1059.3	3.8
20°-30°	1540.2	5.6
30°-40°	2402.7	8.7
40°-50°	4256.2	15.3
50°-60°	6735.1	24.3
60°-70°	7714.1	27.8
70°-80°	3199.8	11.5
80°-90°	330.5	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°	27735.7	100.0
0°-180°	27735.7	100.0

**Coefficient of Utilization**



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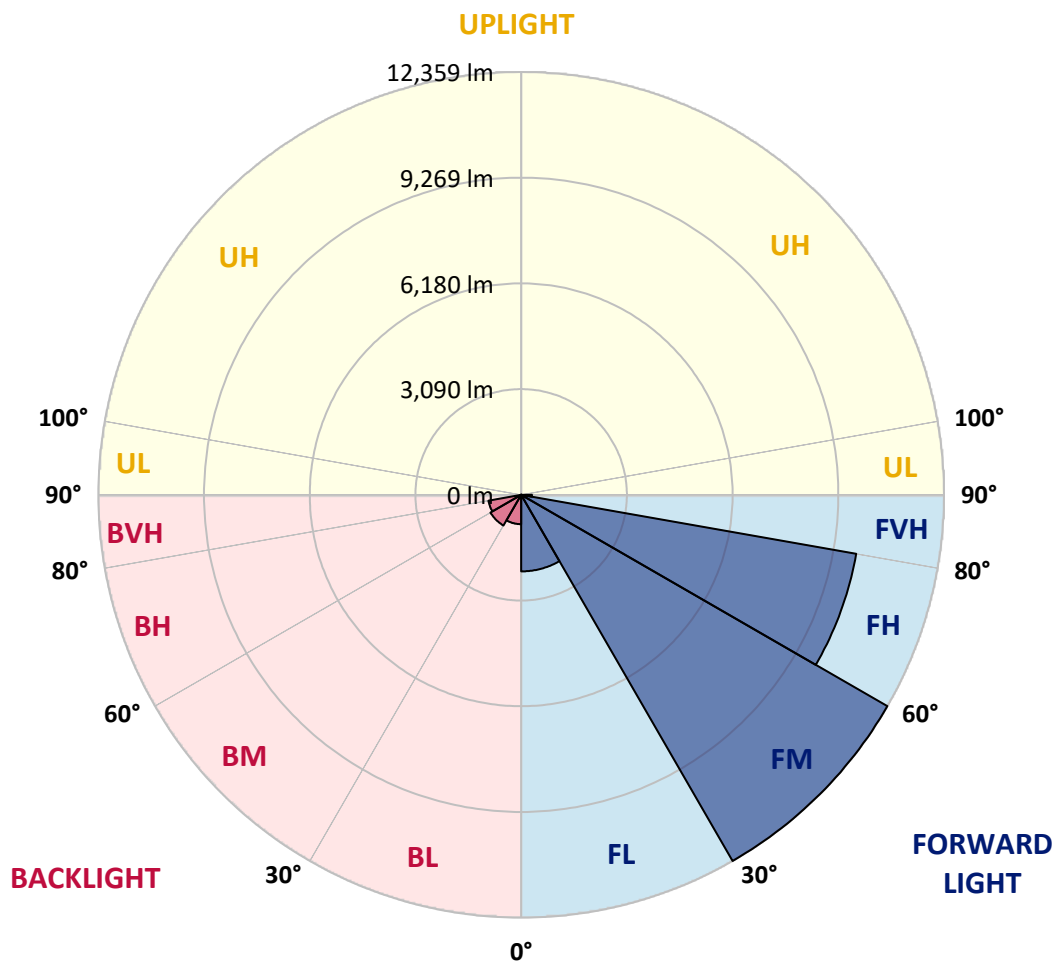
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2237.8	8.1			
FM (30°-60°)	12359.1	44.6			
FH (60°-80°)	9943.3	35.9			G4/12000
FVH (80°-90°)	315.6	1.1			G3/500
BL (0°-30°)	859.3	3.1	B2/1000		
BM (30°-60°)	1035.0	3.7	B2/2500		
BH (60°-80°)	970.6	3.5	B2/1000		G2/1000
BVH (80°-90°)	14.9	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°	6116.7	6116.7	6116.7	6116.7	6116.7	6116.7	6116.7	6116.7	6116.7	6116.7	6116.7
2.5°	6323.8	6336.7	6335.1	6344.9	6367.5	6369.2	6346.4	6302.8	6293.0	6236.5	6137.8
5°	5832.1	5869.3	5891.9	5984.1	6087.6	6212.1	6306.0	6340.0	6335.1	6294.8	6145.8
7.5°	5270.6	5307.8	5333.7	5442.1	5579.6	5793.2	6037.5	6238.1	6255.8	6299.5	6139.3
10°	4896.9	4903.4	4939.1	5042.5	5186.5	5404.9	5696.2	6047.2	6100.6	6260.7	6123.1
12.5°	4589.6	4594.4	4641.4	4753.0	4906.6	5126.6	5432.4	5838.4	5921.0	6212.1	6120.0
15°	4371.2	4388.9	4431.0	4547.5	4710.9	4929.3	5243.1	5684.8	5783.5	6194.4	6149.1
17.5°	4298.4	4317.9	4330.8	4414.9	4563.7	4777.2	5099.1	5584.6	5696.2	6204.1	6205.8
20°	4374.4	4388.9	4359.8	4380.9	4473.1	4664.0	4977.9	5498.7	5631.5	6215.5	6278.6
22.5°	4657.5	4664.0	4584.7	4492.6	4476.3	4581.4	4882.4	5430.9	5573.2	6246.2	6364.2
25°	5142.8	5131.5	5002.1	4803.1	4615.4	4567.0	4825.8	5388.8	5544.1	6278.6	6453.2
27.5°	5728.5	5744.7	5566.6	5277.2	4919.6	4664.0	4817.7	5371.0	5531.1	6301.3	6530.9
30°	6440.3	6462.9	6259.1	5895.0	5382.3	4903.4	4892.1	5367.7	5523.0	6286.6	6537.3
32.5°	7166.7	7194.2	7034.0	6658.6	6000.3	5304.6	5060.3	5403.3	5539.2	6236.5	6500.1
35°	7927.1	7965.8	7859.1	7537.0	6838.3	5883.8	5356.5	5511.7	5615.2	6231.6	6462.9
37.5°	8976.9	9012.5	8812.0	8470.6	7852.7	6660.4	5832.1	5715.6	5794.7	6309.2	6472.6
40°	10544.6	10539.8	10022.0	9499.4	8967.2	7647.1	6500.1	6084.4	6124.9	6543.9	6592.3
42.5°	12252.9	12244.7	11479.6	10685.2	10204.8	8862.0	7378.6	6721.7	6694.3	6975.8	6902.9
45°	13569.7	13568.1	12943.7	12049.1	11694.8	10256.6	8514.2	7608.4	7566.2	7677.9	7475.6
47.5°	14131.1	14140.8	13827.0	13197.7	13346.5	12142.8	9945.9	8892.9	8829.7	8784.4	8477.0
50°	13694.3	13713.7	13739.7	13616.7	14558.2	14677.9	11866.3	10703.0	10672.4	10470.1	9989.6
52.5°	12267.4	12366.2	12670.2	13060.2	14978.8	17111.0	14876.9	12951.8	12786.7	12571.6	12042.6
55°	9863.5	9971.8	10549.3	11495.8	14352.8	18709.4	19096.0	15850.9	15575.8	14933.6	14170.0
57.5°	6527.7	6695.8	7533.8	8737.5	12534.4	18966.6	23305.4	19874.1	18916.5	17157.9	16297.3
60°	3596.3	3758.1	4667.2	5757.5	9052.9	17695.1	26136.5	25112.5	23420.3	19644.5	18880.8
62.5°	2214.7	2302.0	2973.4	3987.8	5429.1	13966.0	26722.2	31695.1	29736.1	22846.0	22001.5
65°	1763.4	1800.6	2129.0	3259.8	3892.4	8307.2	24830.9	36713.4	36059.9	26722.2	24795.3
67°	1711.6	1726.2	1881.5	2798.7	3669.0	5092.8	20802.8	37530.4	38193.6	29067.8	24882.7
67.5°	1722.9	1739.1	1886.4	2670.9	3662.6	4680.2	19414.7	37208.4	38046.5	29253.9	24496.2
70°	1661.4	1711.6	2159.7	2669.4	3483.1	3889.1	11626.9	32238.7	33110.6	27181.5	20785.0
72.5°	588.8	592.2	933.5	2159.7	3787.2	3931.2	5838.4	23633.8	24279.3	20793.1	14985.3
75°	349.4	297.7	310.6	614.7	3618.9	3817.8	3368.1	15101.8	15342.8	11914.8	7588.9
77.5°	241.0	210.4	216.9	271.7	1378.3	3764.5	2675.8	7875.3	7618.0	4178.6	1616.1
80°	137.5	121.4	129.4	237.8	501.6	3512.2	2523.7	3193.5	2722.8	708.6	446.5
82.5°	72.9	61.4	74.4	195.7	349.4	2188.8	2528.5	1543.4	1223.0	239.4	304.2
85°	26.0	21.0	35.7	134.2	233.0	671.4	2344.1	1297.4	1019.1	116.5	231.4
87.5°	4.9	4.9	14.6	54.9	93.9	205.4	1386.4	770.0	516.0	69.6	158.6
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°	6116.7	6116.7	6116.7	6116.7	6116.7	6116.7	6116.7	6116.7	6116.7	6116.7	6116.7
2.5°	6097.3	6027.7	5933.9	5819.1	5683.1	5563.5	5474.5	5382.3	5362.9	5330.5	5325.6
5°	6056.9	5937.2	5704.1	5437.4	5152.6	4895.4	4686.6	4500.6	4418.1	4346.9	4338.9
7.5°	5997.1	5817.5	5421.1	4990.8	4546.0	4141.5	3798.6	3555.9	3332.6	3225.9	3209.6
10°	5927.5	5670.2	5102.5	4505.4	3890.6	3319.6	2810.1	2382.9	2124.1	1970.4	1950.9
12.5°	5862.8	5526.3	4777.2	4002.3	3185.4	2421.8	1766.5	1359.0	1087.0	977.1	964.2
15°	5832.1	5409.9	4473.1	3487.8	2447.7	1541.8	965.8	747.4	658.5	632.5	630.9
17.5°	5828.8	5311.0	4175.4	2955.7	1714.9	896.1	629.4	574.2	556.5	550.0	550.0
20°	5827.1	5217.3	3877.8	2404.0	1088.7	597.0	524.2	511.2	498.3	490.1	490.1
22.5°	5844.9	5133.2	3567.2	1840.9	685.9	483.6	461.1	448.2	431.9	420.6	419.0
25°	5862.8	5068.4	3250.1	1310.4	496.7	420.6	397.9	380.2	357.5	343.0	341.4
27.5°	5866.0	4987.6	2910.4	876.8	415.7	367.2	338.1	310.6	284.8	270.2	268.6
30°	5817.5	4851.7	2533.4	592.2	367.2	318.7	279.9	250.7	226.6	215.1	215.1
32.5°	5722.1	4683.5	2119.2	446.5	326.9	273.4	231.4	203.8	187.7	182.8	181.2
35°	5636.2	4502.2	1693.8	378.5	292.8	231.4	189.3	171.4	161.8	160.2	158.6
37.5°	5586.1	4356.6	1294.2	343.0	260.5	194.2	160.2	147.2	142.3	139.1	140.8
40°	5624.9	4235.2	956.1	313.9	228.1	161.8	136.0	129.4	124.5	123.0	123.0
42.5°	5794.7	4214.3	710.2	287.9	197.4	134.2	118.0	113.2	110.0	108.3	110.0
45°	6241.3	4343.7	551.6	263.7	166.6	113.2	100.3	98.6	97.0	97.0	97.0
47.5°	6912.6	4610.6	459.5	236.2	139.1	97.0	87.3	85.8	84.1	85.8	85.8
50°	8049.9	5099.1	411.0	208.6	114.9	82.6	74.4	74.4	74.4	74.4	76.0
52.5°	9779.4	6060.1	378.5	181.2	93.9	69.6	63.2	63.2	64.7	64.7	66.4
55°	11706.2	7334.9	349.4	153.7	79.3	58.2	51.7	53.4	54.9	56.7	56.7
57.5°	13796.2	8747.2	325.1	126.2	67.9	46.9	43.7	45.4	46.9	50.1	50.1
60°	16318.3	10276.0	289.6	98.6	56.7	37.2	34.0	37.2	42.1	45.4	46.9
62.5°	19087.9	11754.6	244.2	77.7	46.9	29.1	27.5	34.0	40.5	43.7	45.4
65°	20980.8	12218.9	187.7	63.2	35.7	21.0	22.6	30.7	38.8	43.7	43.7
67°	20213.9	11078.3	153.7	53.4	29.1	16.2	21.0	30.7	38.8	42.1	43.7
67.5°	19681.7	10631.9	147.2	51.7	27.5	16.2	21.0	30.7	38.8	43.7	43.7
70°	16014.2	7986.9	123.0	38.8	22.6	14.6	17.7	29.1	37.2	42.1	42.1
72.5°	11126.9	4924.5	110.0	27.5	19.5	12.9	16.2	27.5	35.7	40.5	42.1
75°	5290.1	1782.7	93.9	21.0	17.7	11.3	14.6	27.5	35.7	40.5	40.5
77.5°	1079.0	414.2	76.0	17.7	14.6	11.3	12.9	26.0	34.0	38.8	38.8
80°	354.3	160.2	56.7	16.2	14.6	11.3	12.9	24.3	34.0	37.2	38.8
82.5°	255.6	80.8	37.2	16.2	14.6	11.3	11.3	24.3	32.3	37.2	37.2
85°	195.7	56.7	24.3	16.2	14.6	11.3	11.3	22.6	30.7	35.7	35.7
87.5°	129.4	22.6	19.5	16.2	14.6	11.3	11.3	22.6	29.1	34.0	35.7
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)