

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: P191864

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7050-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191864  
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-SL2-7050-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 1200mA 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: 32348 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 382  
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

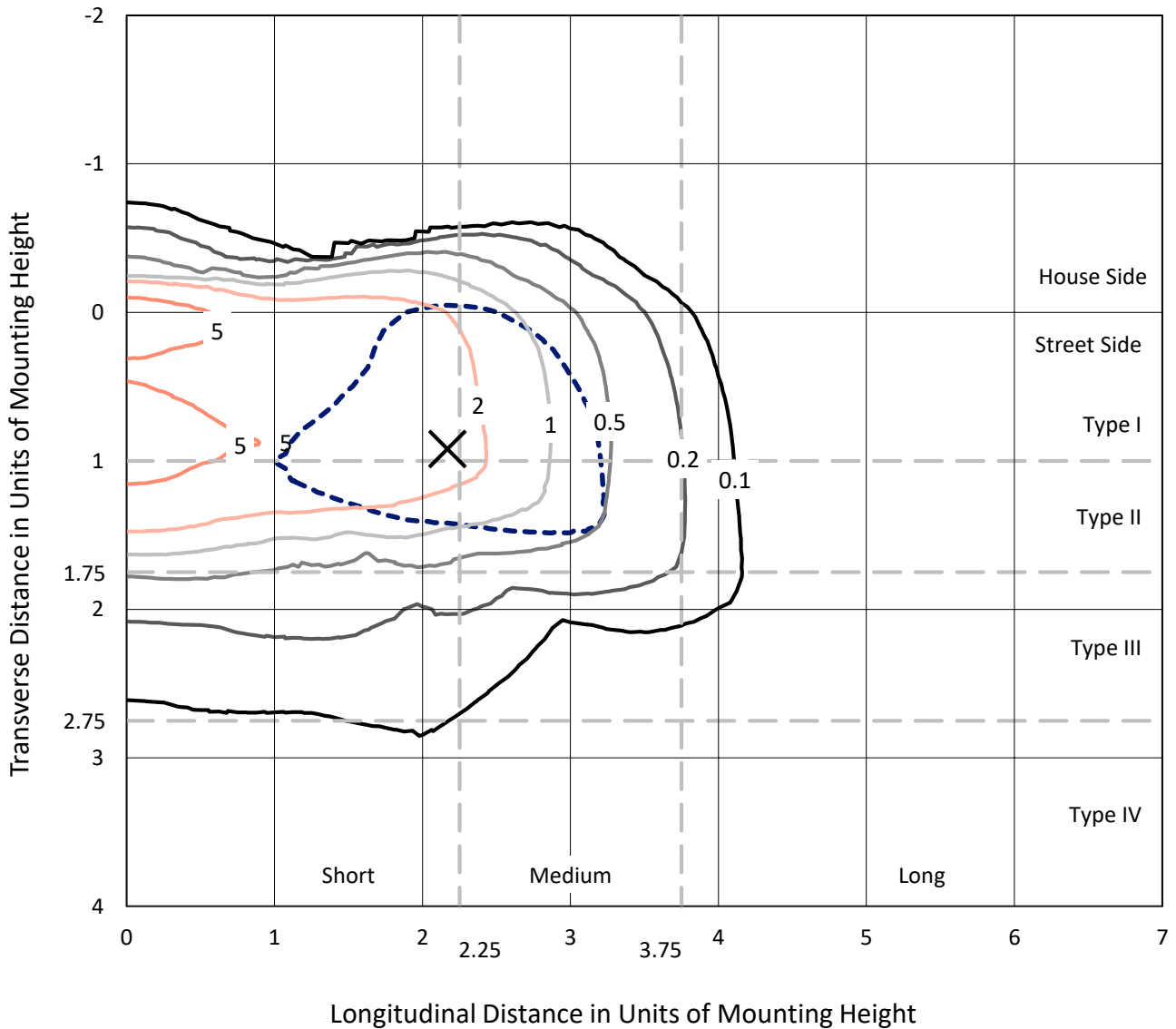


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

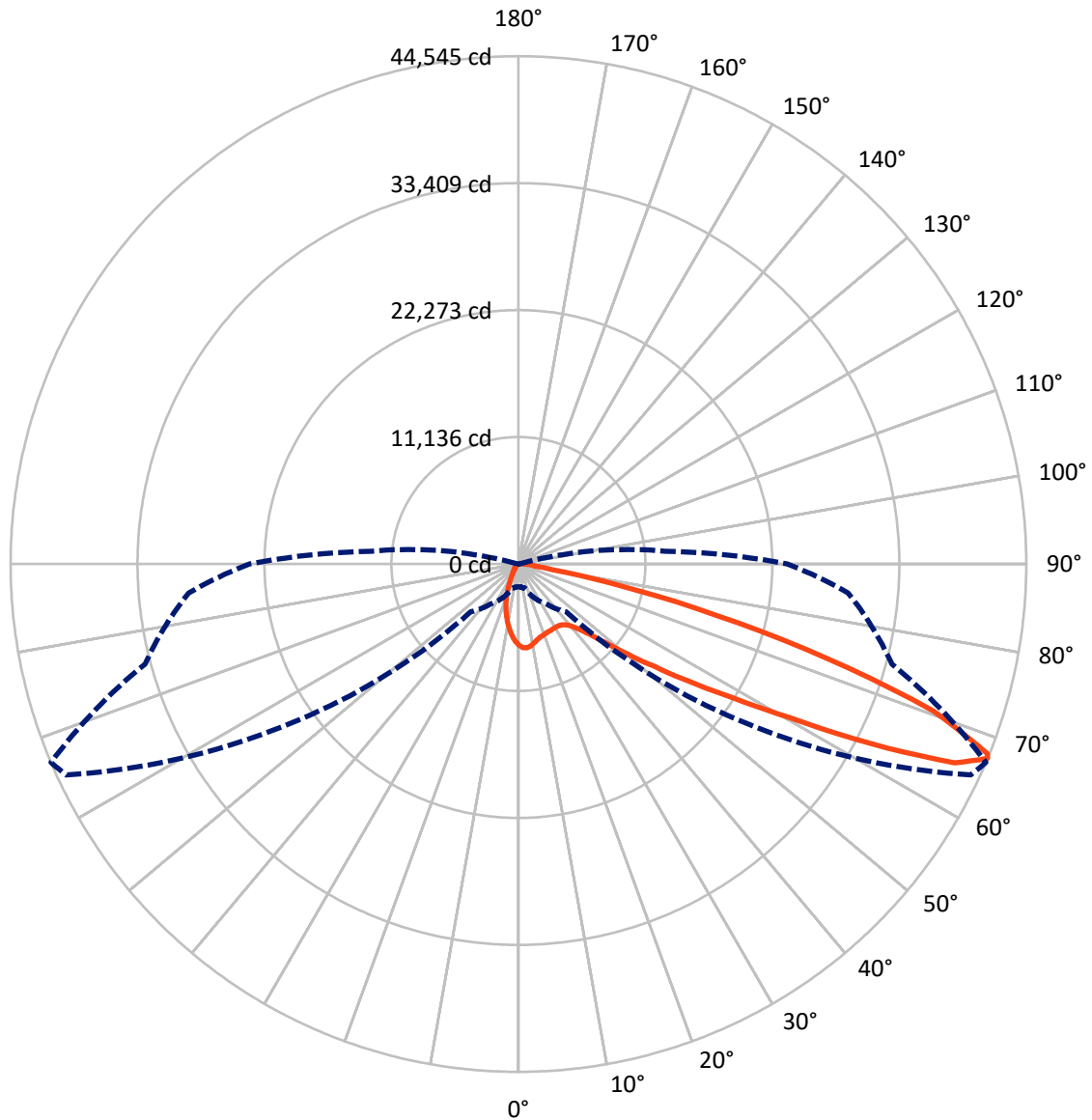


Based on 30 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - Semi-Cutoff

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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	3358.7	0.0	3358.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	28989.3	0.0	28989.3
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	32348.0	0.0	32348.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	580.5	1.8
10°-20°	1235.5	3.8
20°-30°	1796.3	5.6
30°-40°	2802.3	8.7
40°-50°	4964.1	15.3
50°-60°	7855.1	24.3
60°-70°	8997.0	27.8
70°-80°	3731.9	11.5
80°-90°	385.5	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°	32348.0	100.0
0°-180°	32348.0	100.0



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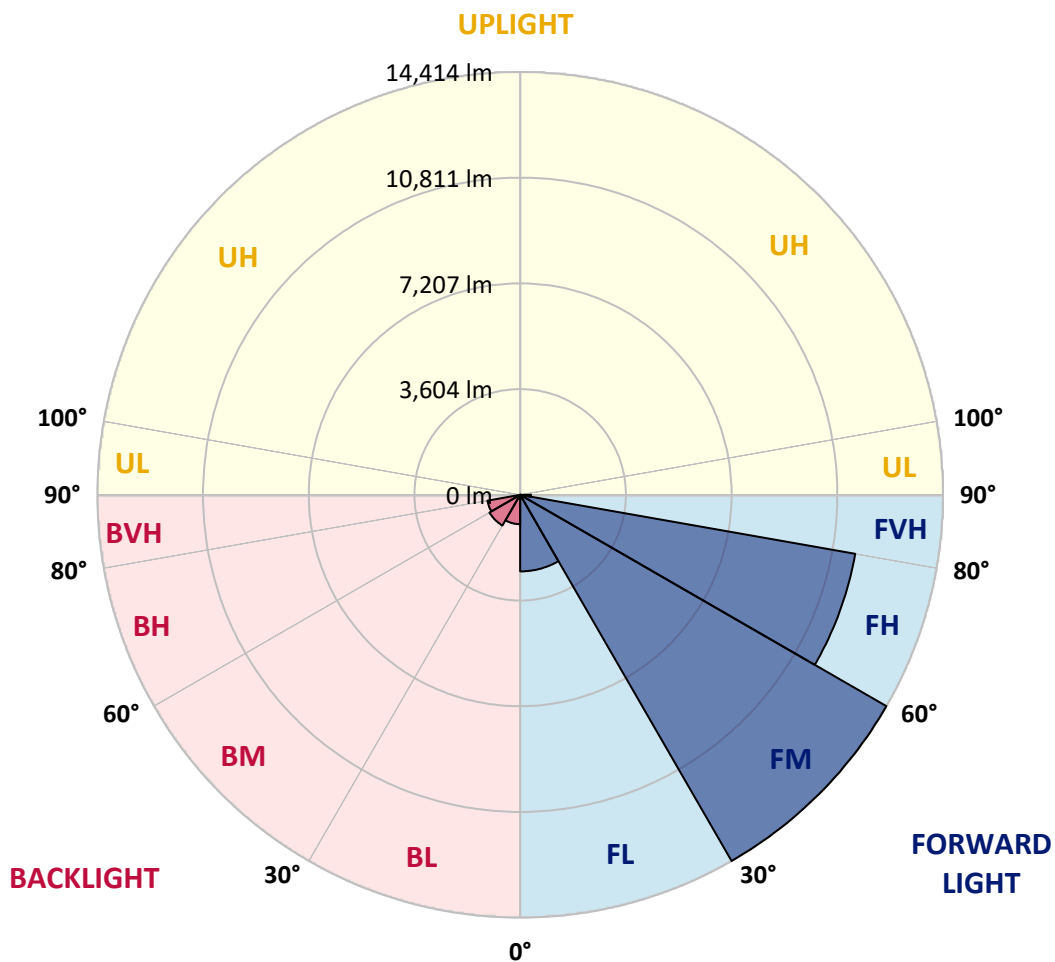
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2610.0	8.1			
FM (30°-60°)	14414.4	44.6			
FH (60°-80°)	11596.8	35.9			G4/12000
FVH (80°-90°)	368.1	1.1			G3/500
BL (0°-30°)	1002.2	3.1	B3/2500		
BM (30°-60°)	1207.1	3.7	B2/2500		
BH (60°-80°)	1132.0	3.5	B3/2500		G3/2500
BVH (80°-90°)	17.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7133.9	7133.9	7133.9	7133.9	7133.9	7133.9	7133.9	7133.9	7133.9	7133.9	7133.9
2.5°	7375.4	7390.5	7388.6	7400.0	7426.4	7428.3	7401.9	7350.9	7339.6	7273.6	7158.5
5°	6801.9	6845.3	6871.7	6979.2	7100.0	7245.2	7354.7	7394.3	7388.6	7341.5	7167.9
7.5°	6147.1	6190.5	6220.7	6347.1	6507.5	6756.6	7041.5	7275.4	7296.2	7347.1	7160.3
10°	5711.3	5718.8	5760.4	5881.1	6049.0	6303.7	6643.4	7052.8	7115.1	7301.9	7141.5
12.5°	5352.8	5358.5	5413.2	5543.4	5722.6	5979.2	6335.8	6809.4	6905.6	7245.2	7137.7
15°	5098.1	5118.8	5167.9	5303.7	5494.3	5749.0	6115.1	6630.2	6745.3	7224.5	7171.7
17.5°	5013.2	5035.8	5050.9	5149.0	5322.6	5571.7	5947.1	6513.2	6643.4	7235.8	7237.7
20°	5101.9	5118.8	5084.9	5109.4	5217.0	5439.6	5805.6	6413.2	6567.9	7249.0	7322.6
22.5°	5432.0	5439.6	5347.1	5239.6	5220.7	5343.4	5694.3	6333.9	6500.0	7284.9	7422.6
25°	5998.1	5984.9	5833.9	5601.9	5383.0	5326.4	5628.3	6284.9	6466.0	7322.6	7526.4
27.5°	6681.1	6700.0	6492.4	6154.7	5737.7	5439.6	5618.8	6264.1	6450.9	7349.0	7616.9
30°	7511.3	7537.7	7300.0	6875.4	6277.3	5718.8	5705.6	6260.3	6441.5	7332.0	7624.5
32.5°	8358.5	8390.5	8203.7	7766.0	6998.1	6186.8	5901.9	6301.9	6460.3	7273.6	7581.1
35°	9245.2	9290.5	9166.0	8790.5	7975.4	6862.2	6247.1	6428.3	6549.0	7267.9	7537.7
37.5°	10469.8	10511.3	10277.3	9879.2	9158.4	7767.9	6801.9	6666.0	6758.5	7358.5	7549.0
40°	12298.1	12292.4	11688.6	11079.2	10458.4	8918.8	7581.1	7096.2	7143.4	7632.0	7688.6
42.5°	14290.5	14281.1	13388.6	12462.2	11901.8	10335.8	8605.6	7839.6	7807.5	8135.8	8050.9
45°	15826.3	15824.5	15096.2	14052.8	13639.6	11962.2	9930.1	8873.5	8824.5	8954.7	8718.8
47.5°	16481.1	16492.4	16126.3	15392.4	15566.0	14162.2	11599.9	10371.6	10298.1	10245.2	9886.7
50°	15971.6	15994.3	16024.5	15881.1	16979.2	17118.8	13839.6	12483.0	12447.1	12211.3	11650.9
52.5°	14307.5	14422.6	14777.3	15232.0	17469.7	19956.5	17350.9	15105.6	14913.1	14662.2	14045.2
55°	11503.7	11630.1	12303.7	13407.5	16739.5	21820.7	22271.6	18486.7	18166.0	17416.9	16526.3
57.5°	7613.2	7809.4	8786.8	10190.5	14618.8	22120.7	27181.0	23179.1	22062.2	20011.2	19007.5
60°	4194.3	4383.0	5443.4	6715.1	10558.4	20637.6	30482.9	29288.5	27315.0	22911.2	22020.7
62.5°	2583.0	2684.9	3467.9	4650.9	6332.0	16288.6	31165.9	36965.9	34681.0	26645.2	25660.3
65°	2056.6	2100.0	2483.0	3801.9	4539.6	9688.6	28960.2	42818.7	42056.4	31165.9	28918.7
67°	1996.2	2013.2	2194.3	3264.1	4279.2	5939.6	24262.1	43771.5	44545.1	33901.7	29020.6
67.5°	2009.4	2028.3	2200.0	3115.1	4271.7	5458.5	22643.3	43396.0	44373.4	34118.7	28569.7
70°	1937.7	1996.2	2518.9	3113.2	4062.2	4535.8	13560.3	37599.8	38616.8	31701.7	24241.4
72.5°	686.8	690.6	1088.7	2518.9	4417.0	4584.9	6809.4	27564.0	28316.8	24250.8	17477.3
75°	407.5	347.2	362.3	717.0	4220.7	4452.8	3928.3	17613.1	17894.3	13896.2	8850.9
77.5°	281.1	245.3	252.8	317.0	1607.5	4390.5	3120.7	9184.9	8884.9	4873.6	1884.9
80°	160.4	141.5	150.9	277.4	584.9	4096.2	2943.4	3724.5	3175.5	826.4	520.8
82.5°	84.9	71.7	86.8	228.3	407.5	2552.8	2949.0	1800.0	1426.4	279.2	354.7
85°	30.2	24.5	41.5	156.6	271.7	783.0	2733.9	1513.2	1188.7	135.8	269.8
87.5°	5.7	5.7	17.0	64.2	109.4	239.6	1617.0	898.1	601.9	81.1	184.9
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°	7133.9	7133.9	7133.9	7133.9	7133.9	7133.9	7133.9	7133.9	7133.9	7133.9	7133.9
2.5°	7111.3	7030.2	6920.7	6786.8	6628.3	6488.6	6384.9	6277.3	6254.7	6217.0	6211.3
5°	7064.1	6924.5	6652.8	6341.5	6009.4	5709.4	5466.0	5249.0	5152.8	5069.8	5060.4
7.5°	6994.3	6784.9	6322.6	5820.7	5301.9	4830.2	4430.2	4147.2	3886.8	3762.2	3743.4
10°	6913.2	6613.2	5950.9	5254.7	4537.7	3871.7	3277.3	2779.2	2477.3	2298.1	2275.5
12.5°	6837.7	6445.3	5571.7	4667.9	3715.1	2824.5	2060.4	1584.9	1267.9	1139.6	1124.5
15°	6801.9	6309.4	5217.0	4067.9	2854.7	1798.1	1126.4	871.7	767.9	737.7	735.8
17.5°	6798.1	6194.3	4869.8	3447.2	2000.0	1045.3	734.0	669.8	649.1	641.5	641.5
20°	6796.2	6084.9	4522.6	2803.8	1269.8	696.2	611.3	596.2	581.1	571.7	571.7
22.5°	6816.9	5986.8	4160.4	2147.2	800.0	564.1	537.7	522.6	503.8	490.6	488.7
25°	6837.7	5911.3	3790.5	1528.3	579.2	490.6	464.1	443.4	417.0	400.0	398.1
27.5°	6841.5	5817.0	3394.3	1022.6	484.9	428.3	394.3	362.3	332.1	315.1	313.2
30°	6784.9	5658.5	2954.7	690.6	428.3	371.7	326.4	292.5	264.1	250.9	250.9
32.5°	6673.6	5462.2	2471.7	520.8	381.1	318.9	269.8	237.7	218.9	213.2	211.3
35°	6573.6	5250.9	1975.5	441.5	341.5	269.8	220.8	200.0	188.7	186.8	184.9
37.5°	6515.1	5081.1	1509.4	400.0	303.8	226.4	186.8	171.7	166.0	162.3	164.2
40°	6560.3	4939.6	1115.1	366.0	266.0	188.7	158.5	150.9	145.3	143.4	143.4
42.5°	6758.5	4915.1	828.3	335.8	230.2	156.6	137.7	132.1	128.3	126.4	128.3
45°	7279.2	5066.0	643.4	307.5	194.3	132.1	117.0	115.1	113.2	113.2	113.2
47.5°	8062.2	5377.3	535.8	275.5	162.3	113.2	101.9	100.0	98.1	100.0	100.0
50°	9388.6	5947.1	479.2	243.4	134.0	96.2	86.8	86.8	86.8	86.8	88.7
52.5°	11405.6	7067.9	441.5	211.3	109.4	81.1	73.6	73.6	75.5	75.5	77.4
55°	13652.8	8554.7	407.5	179.2	92.5	67.9	60.4	62.3	64.2	66.0	66.0
57.5°	16090.5	10201.8	379.2	147.2	79.2	54.7	50.9	52.8	54.7	58.5	58.5
60°	19032.0	11984.8	337.7	115.1	66.0	43.4	39.6	43.4	49.1	52.8	54.7
62.5°	22262.2	13709.4	284.9	90.6	54.7	34.0	32.1	39.6	47.2	50.9	52.8
65°	24469.7	14250.9	218.9	73.6	41.5	24.5	26.4	35.8	45.3	50.9	50.9
67°	23575.4	12920.7	179.2	62.3	34.0	18.9	24.5	35.8	45.3	49.1	50.9
67.5°	22954.6	12399.9	171.7	60.4	32.1	18.9	24.5	35.8	45.3	50.9	50.9
70°	18677.3	9315.1	143.4	45.3	26.4	17.0	20.8	34.0	43.4	49.1	49.1
72.5°	12977.3	5743.4	128.3	32.1	22.6	15.1	18.9	32.1	41.5	47.2	49.1
75°	6169.8	2079.2	109.4	24.5	20.8	13.2	17.0	32.1	41.5	47.2	47.2
77.5°	1258.5	483.0	88.7	20.8	17.0	13.2	15.1	30.2	39.6	45.3	45.3
80°	413.2	186.8	66.0	18.9	17.0	13.2	15.1	28.3	39.6	43.4	45.3
82.5°	298.1	94.3	43.4	18.9	17.0	13.2	13.2	28.3	37.7	43.4	43.4
85°	228.3	66.0	28.3	18.9	17.0	13.2	13.2	26.4	35.8	41.5	41.5
87.5°	150.9	26.4	22.6	18.9	17.0	13.2	13.2	26.4	34.0	39.6	41.5
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)