

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: P191835

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7050-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191835  
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-SL2-7050-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 22977 lumens  
Efficiency: N/A  
Efficacy: 101.7 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

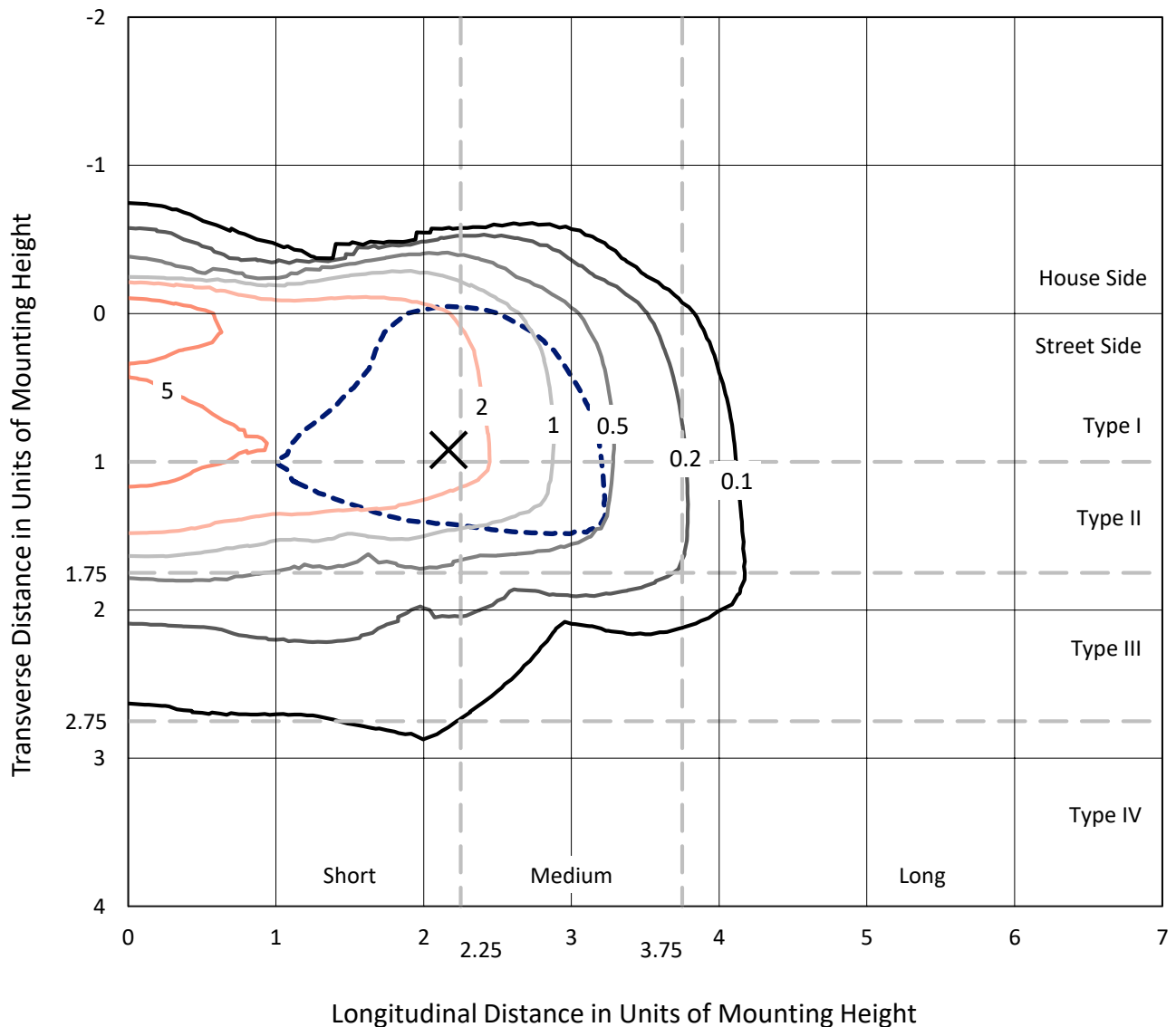


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### Iso-Footcandle Lines of Horizontal Illumination

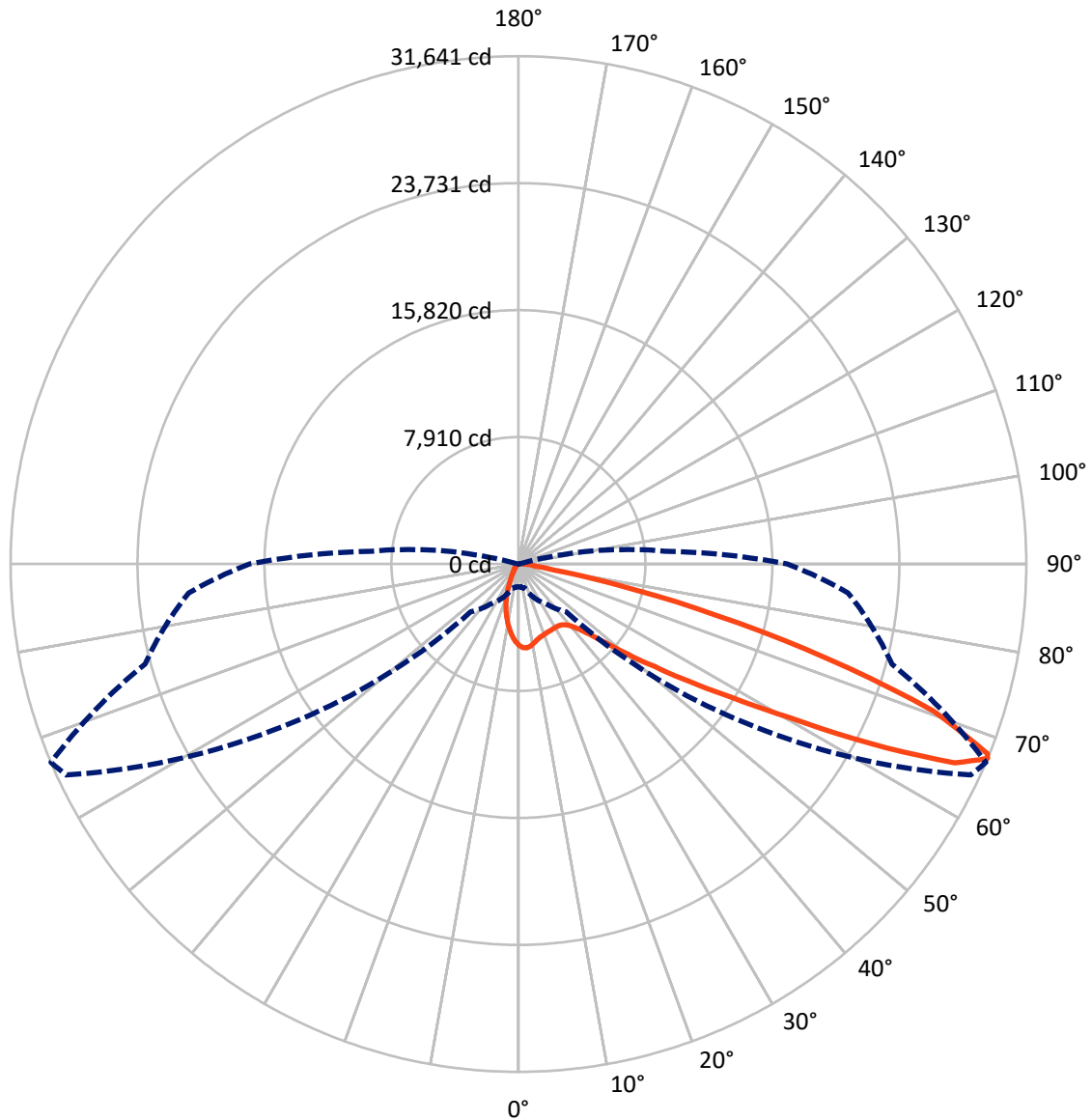
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	2385.7	0.0	2385.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	20591.3	0.0	20591.3
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	22977.0	0.0	22977.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.3	1.8
10°-20°	877.6	3.8
20°-30°	1275.9	5.6
30°-40°	1990.5	8.7
40°-50°	3526.0	15.3
50°-60°	5579.6	24.3
60°-70°	6390.6	27.8
70°-80°	2650.8	11.5
80°-90°	273.8	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°	22977.0	100.0
0°-180°	22977.0	100.0

**Coefficient of Utilization**



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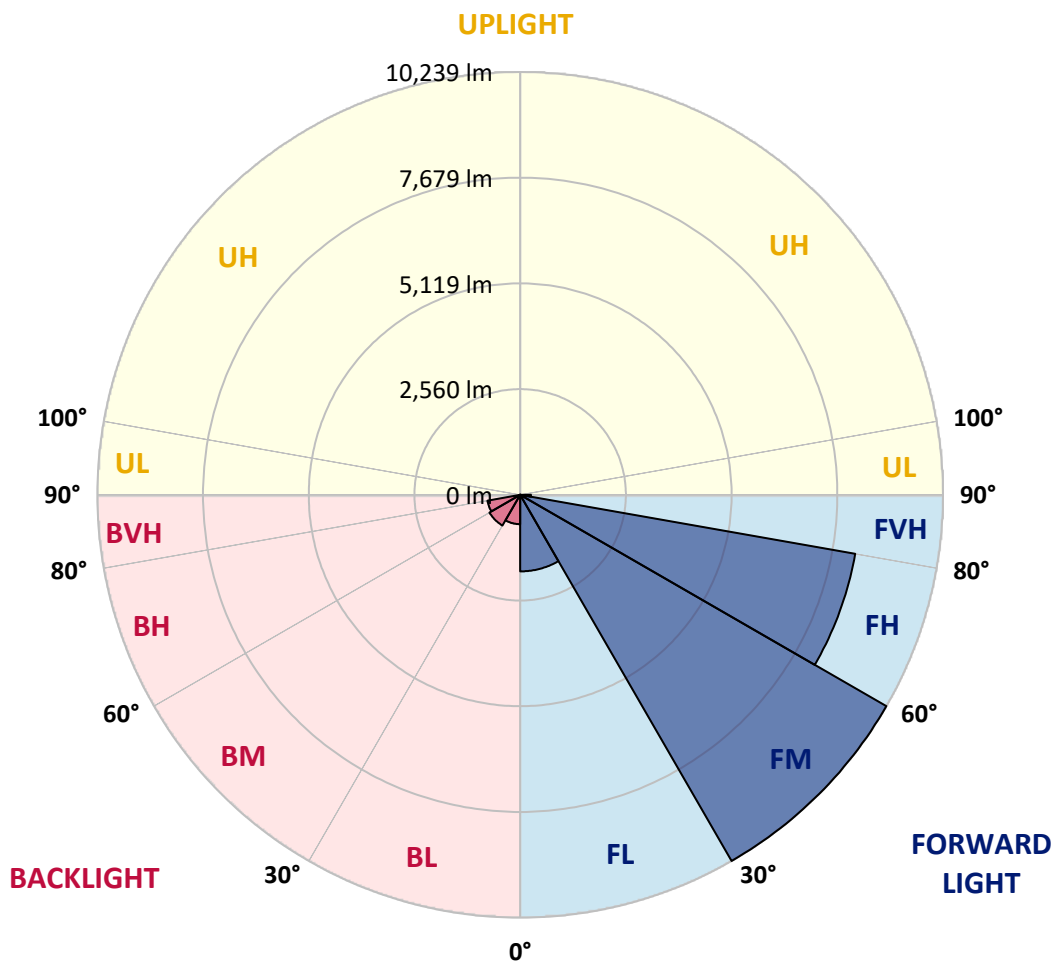
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1853.9	8.1			
FM	(30°-60°)	10238.6	44.6			
FH	(60°-80°)	8237.3	35.9			G4/12000
FVH	(80°-90°)	261.5	1.1			G3/500
BL	(0°-30°)	711.9	3.1	B2/1000		
BM	(30°-60°)	857.4	3.7	B1/1000		
BH	(60°-80°)	804.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	12.3	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°	5067.3	5067.3	5067.3	5067.3	5067.3	5067.3	5067.3	5067.3	5067.3	5067.3	5067.3
2.5°	5238.8	5249.5	5248.2	5256.2	5275.0	5276.3	5257.6	5221.4	5213.4	5166.5	5084.7
5°	4831.4	4862.2	4881.0	4957.4	5043.2	5146.3	5224.1	5252.2	5248.2	5214.7	5091.4
7.5°	4366.4	4397.2	4418.6	4508.4	4622.3	4799.2	5001.6	5167.8	5182.5	5218.7	5086.0
10°	4056.8	4062.1	4091.6	4177.4	4296.7	4477.6	4718.8	5009.6	5053.9	5186.6	5072.6
12.5°	3802.1	3806.2	3845.0	3937.5	4064.8	4247.1	4500.4	4836.8	4905.1	5146.3	5070.0
15°	3621.2	3635.9	3670.8	3767.3	3902.6	4083.6	4343.6	4709.4	4791.2	5131.6	5094.1
17.5°	3560.9	3577.0	3587.7	3657.4	3780.7	3957.6	4224.3	4626.4	4718.8	5139.6	5141.0
20°	3623.9	3635.9	3611.8	3629.2	3705.6	3863.8	4123.8	4555.3	4665.2	5149.0	5201.3
22.5°	3858.4	3863.8	3798.1	3721.7	3708.3	3795.4	4044.7	4499.0	4617.0	5174.5	5272.3
25°	4260.5	4251.1	4143.9	3979.0	3823.6	3783.4	3997.8	4464.2	4592.8	5201.3	5346.0
27.5°	4745.6	4759.0	4611.6	4371.7	4075.5	3863.8	3991.1	4449.4	4582.1	5220.1	5410.4
30°	5335.3	5354.1	5185.2	4883.7	4458.8	4062.1	4052.7	4446.8	4575.4	5208.0	5415.7
32.5°	5937.1	5959.8	5827.2	5516.2	4970.8	4394.5	4192.1	4476.3	4588.8	5166.5	5384.9
35°	6567.0	6599.1	6510.7	6244.0	5665.0	4874.3	4437.4	4566.0	4651.8	5162.4	5354.1
37.5°	7436.7	7466.2	7300.0	7017.3	6505.3	5517.6	4831.4	4734.9	4800.6	5226.8	5362.1
40°	8735.4	8731.4	8302.5	7869.6	7428.7	6335.1	5384.9	5040.5	5074.0	5421.1	5461.3
42.5°	10150.6	10143.9	9510.0	8852.0	8453.9	7341.6	6112.6	5568.5	5545.7	5778.9	5718.6
45°	11241.6	11240.2	10722.9	9981.8	9688.3	8496.8	7053.4	6302.9	6268.1	6360.6	6193.0
47.5°	11706.6	11714.6	11454.6	10933.3	11056.6	10059.5	8239.5	7367.1	7314.8	7277.3	7022.6
50°	11344.8	11360.8	11382.3	11280.4	12060.4	12159.6	9830.3	8866.7	8841.3	8673.7	8275.7
52.5°	10162.7	10244.5	10496.4	10819.4	12408.9	14175.2	12324.4	10729.6	10592.9	10414.7	9976.4
55°	8171.2	8261.0	8739.4	9523.4	11890.2	15499.4	15819.7	13131.2	12903.4	12371.3	11738.8
57.5°	5407.7	5547.1	6241.3	7238.4	10383.8	15712.4	19306.8	16464.3	15670.9	14214.1	13501.1
60°	2979.3	3113.3	3866.5	4769.8	7499.7	14659.1	21652.2	20803.8	19402.0	16274.0	15641.4
62.5°	1834.7	1907.1	2463.3	3303.6	4497.7	11569.9	22137.3	26257.1	24634.1	18926.2	18226.7
65°	1460.8	1491.6	1763.7	2700.5	3224.5	6881.9	20570.7	30414.4	29872.9	22137.3	20541.2
67°	1417.9	1430.0	1558.6	2318.5	3039.6	4218.9	17233.6	31091.2	31640.7	24080.6	20613.5
67.5°	1427.3	1440.7	1562.7	2212.7	3034.2	3877.2	16083.7	30824.5	31518.7	24234.7	20293.2
70°	1376.4	1417.9	1789.2	2211.3	2885.4	3221.8	9632.0	26707.4	27429.8	22518.0	17218.8
72.5°	487.8	490.5	773.3	1789.2	3137.4	3256.7	4836.8	19578.9	20113.6	17225.5	12414.2
75°	289.5	246.6	257.3	509.3	2998.0	3162.9	2790.3	12510.7	12710.4	9870.5	6286.9
77.5°	199.7	174.2	179.6	225.2	1141.8	3118.6	2216.7	6524.1	6311.0	3461.7	1338.9
80°	113.9	100.5	107.2	197.0	415.5	2909.6	2090.7	2645.5	2255.5	587.0	369.9
82.5°	60.3	50.9	61.6	162.2	289.5	1813.3	2094.7	1278.5	1013.2	198.3	252.0
85°	21.4	17.4	29.5	111.2	193.0	556.2	1941.9	1074.8	844.3	96.5	191.6
87.5°	4.0	4.0	12.1	45.6	77.7	170.2	1148.5	637.9	427.5	57.6	131.3
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°	5067.3	5067.3	5067.3	5067.3	5067.3	5067.3	5067.3	5067.3	5067.3	5067.3	5067.3
2.5°	5051.2	4993.6	4915.8	4820.7	4708.1	4608.9	4535.2	4458.8	4442.7	4415.9	4411.9
5°	5017.7	4918.5	4725.5	4504.4	4268.5	4055.4	3882.5	3728.4	3660.1	3601.1	3594.4
7.5°	4968.1	4819.3	4491.0	4134.5	3765.9	3430.9	3146.8	2945.7	2760.8	2672.3	2658.9
10°	4910.5	4697.4	4227.0	3732.4	3223.2	2750.1	2327.9	1974.1	1759.7	1632.4	1616.3
12.5°	4856.9	4578.1	3957.6	3315.6	2638.8	2006.3	1463.5	1125.8	900.6	809.5	798.8
15°	4831.4	4481.6	3705.6	2889.5	2027.7	1277.2	800.1	619.2	545.5	524.0	522.7
17.5°	4828.7	4399.9	3459.0	2448.5	1420.6	742.5	521.3	475.8	461.0	455.7	455.7
20°	4827.4	4322.1	3212.4	1991.5	902.0	494.5	434.2	423.5	412.8	406.1	406.1
22.5°	4842.1	4252.4	2955.1	1525.1	568.2	400.7	382.0	371.2	357.8	348.5	347.1
25°	4856.9	4198.8	2692.5	1085.6	411.4	348.5	329.7	314.9	296.2	284.1	282.8
27.5°	4859.5	4131.8	2411.0	726.4	344.4	304.2	280.1	257.3	235.9	223.8	222.5
30°	4819.3	4019.2	2098.7	490.5	304.2	264.0	231.9	207.7	187.6	178.2	178.2
32.5°	4740.3	3879.9	1755.7	369.9	270.7	226.5	191.6	168.9	155.5	151.4	150.1
35°	4669.2	3729.8	1403.2	313.6	242.6	191.6	156.8	142.1	134.0	132.7	131.3
37.5°	4627.7	3609.1	1072.2	284.1	215.8	160.8	132.7	122.0	117.9	115.3	116.6
40°	4659.9	3508.6	792.1	260.0	189.0	134.0	112.6	107.2	103.2	101.9	101.9
42.5°	4800.6	3491.2	588.3	238.6	163.5	111.2	97.8	93.8	91.1	89.8	91.1
45°	5170.5	3598.4	457.0	218.5	138.0	93.8	83.1	81.8	80.4	80.4	80.4
47.5°	5726.7	3819.6	380.6	195.7	115.3	80.4	72.4	71.0	69.7	71.0	71.0
50°	6668.8	4224.3	340.4	172.9	95.2	68.3	61.6	61.6	61.6	61.6	63.0
52.5°	8101.5	5020.4	313.6	150.1	77.7	57.6	52.3	52.3	53.6	53.6	54.9
55°	9697.7	6076.4	289.5	127.3	65.7	48.2	42.9	44.2	45.6	46.9	46.9
57.5°	11429.2	7246.4	269.4	104.5	56.3	38.9	36.2	37.5	38.9	41.5	41.5
60°	13518.5	8512.9	239.9	81.8	46.9	30.8	28.1	30.8	34.8	37.5	38.9
62.5°	15813.0	9737.9	202.4	64.3	38.9	24.1	22.8	28.1	33.5	36.2	37.5
65°	17381.0	10122.5	155.5	52.3	29.5	17.4	18.8	25.5	32.2	36.2	36.2
67°	16745.7	9177.7	127.3	44.2	24.1	13.4	17.4	25.5	32.2	34.8	36.2
67.5°	16304.8	8807.8	122.0	42.9	22.8	13.4	17.4	25.5	32.2	36.2	36.2
70°	13266.6	6616.5	101.9	32.2	18.8	12.1	14.7	24.1	30.8	34.8	34.8
72.5°	9217.9	4079.6	91.1	22.8	16.1	10.7	13.4	22.8	29.5	33.5	34.8
75°	4382.4	1476.9	77.7	17.4	14.7	9.4	12.1	22.8	29.5	33.5	33.5
77.5°	893.9	343.1	63.0	14.7	12.1	9.4	10.7	21.4	28.1	32.2	32.2
80°	293.5	132.7	46.9	13.4	12.1	9.4	10.7	20.1	28.1	30.8	32.2
82.5°	211.8	67.0	30.8	13.4	12.1	9.4	9.4	20.1	26.8	30.8	30.8
85°	162.2	46.9	20.1	13.4	12.1	9.4	9.4	18.8	25.5	29.5	29.5
87.5°	107.2	18.8	16.1	13.4	12.1	9.4	9.4	18.8	24.1	28.1	29.5
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)