

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: P193678

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193678  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-SL3-8030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41073 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 558  
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

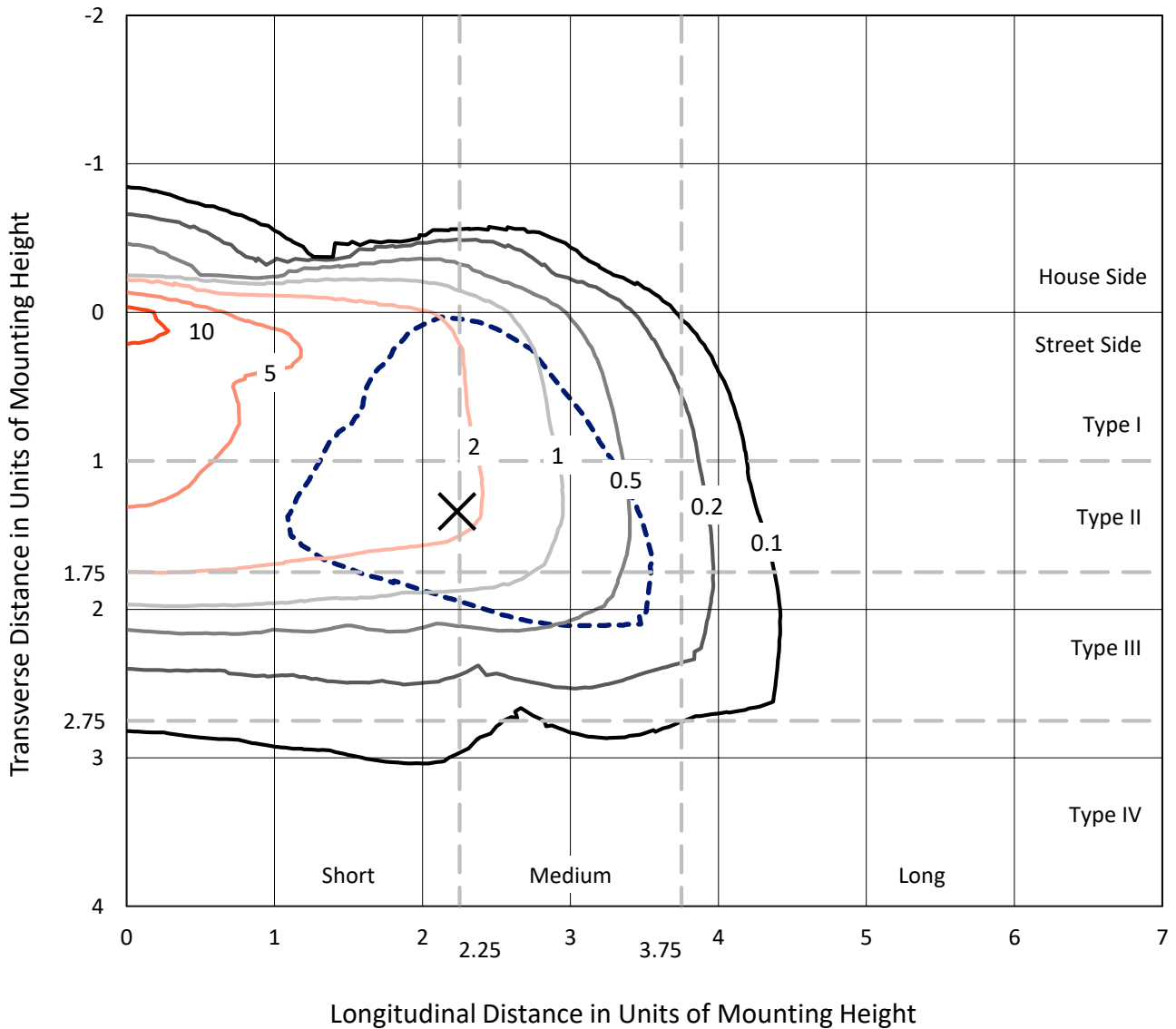


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

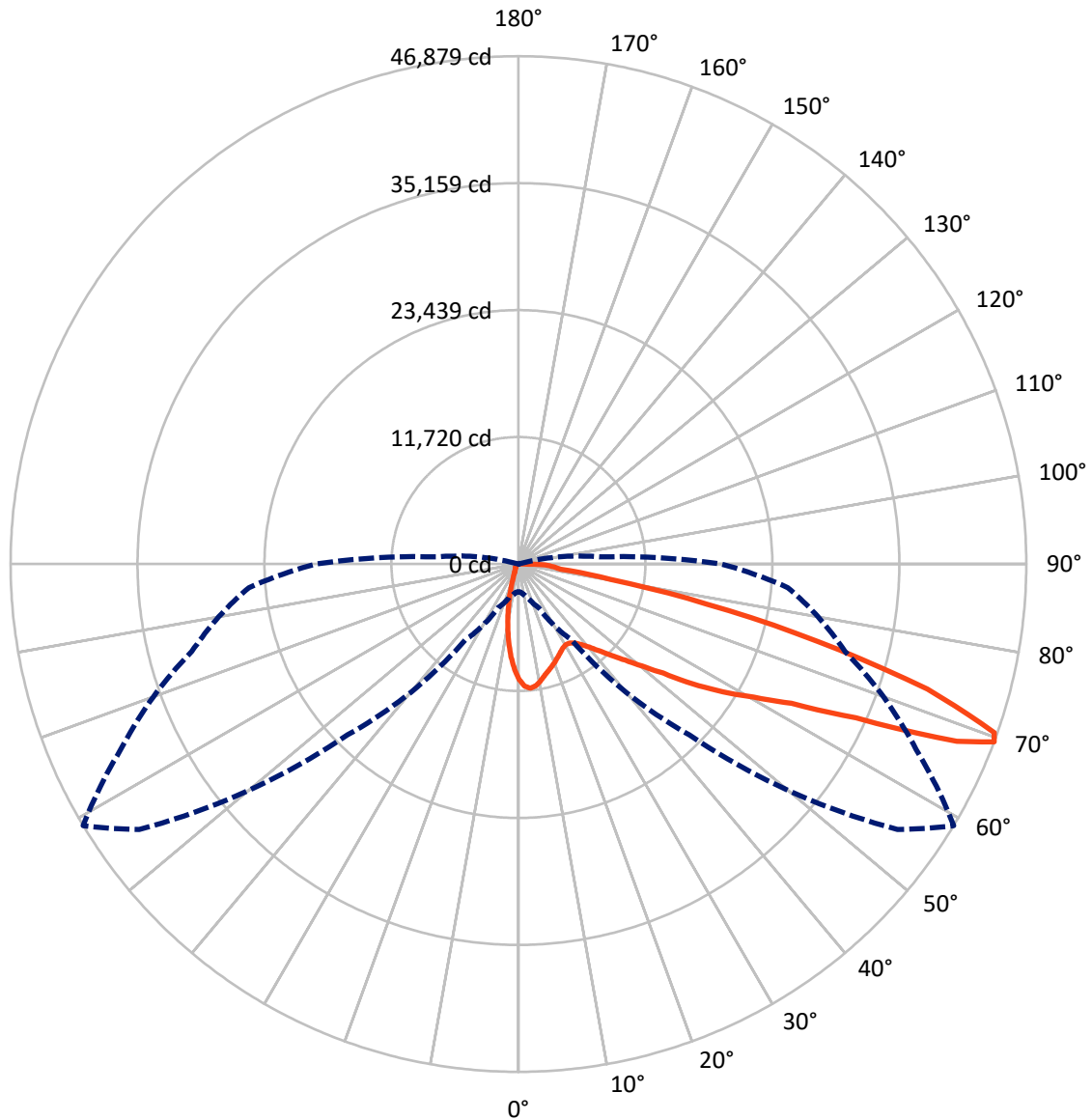


Based on 30 foot mounting height. Maximum calculated value = 11.9 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3344.9	0.0	3344.9
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	37728.1	0.0	37728.1
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	41073.0	0.0	41073.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	867.8	2.1
10°-20°	1793.0	4.4
20°-30°	2412.8	5.9
30°-40°	3503.2	8.5
40°-50°	5833.1	14.2
50°-60°	9099.5	22.2
60°-70°	11260.0	27.4
70°-80°	5706.4	13.9
80°-90°	597.1	1.5
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°	41073.0	100.0
0°-180°	41073.0	100.0



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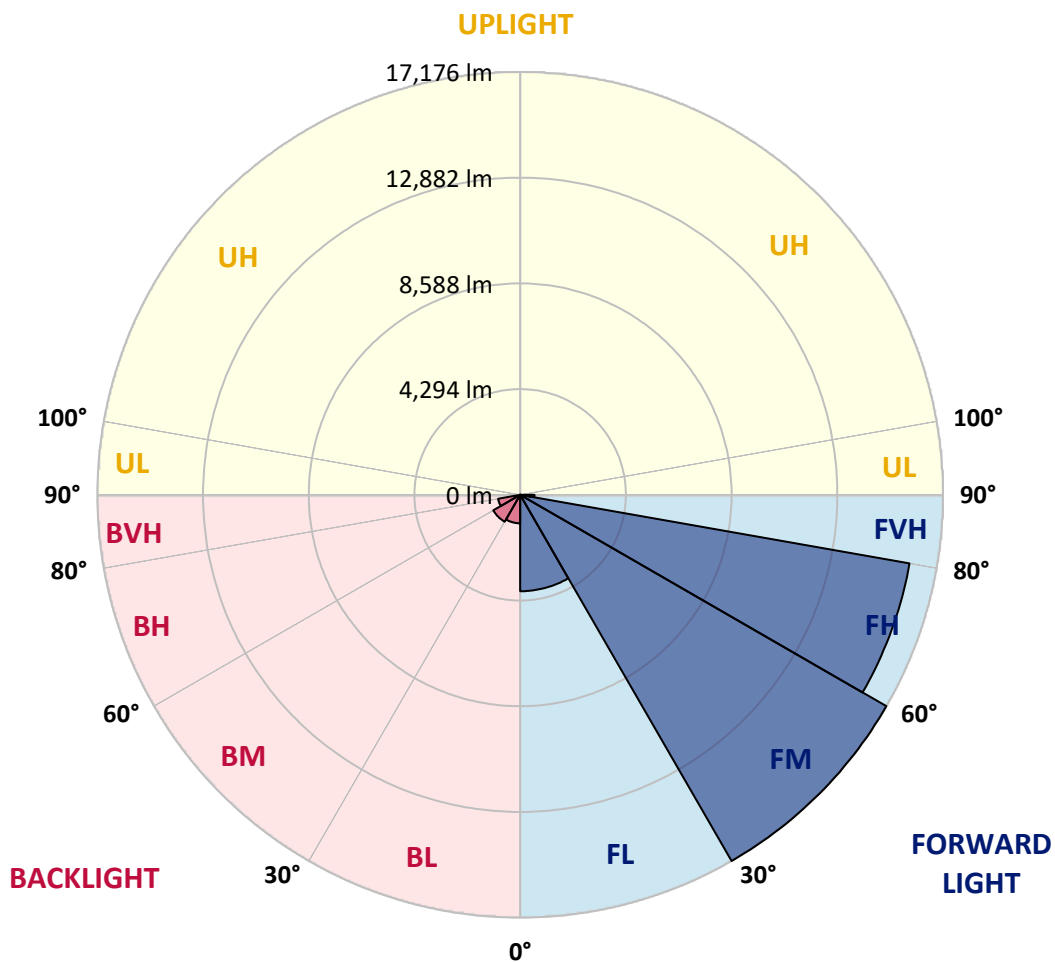
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3915.9	9.5			
FM	(30°-60°)	17175.5	41.8			
FH	(60°-80°)	16058.0	39.1			G5
FVH	(80°-90°)	578.7	1.4			G4/750
BL	(0°-30°)	1157.8	2.8	B3/2500		
BM	(30°-60°)	1260.3	3.1	B2/2500		
BH	(60°-80°)	908.4	2.2	B2/1000		G2/1000
BVH	(80°-90°)	18.4	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10690.7	10690.7	10690.7	10690.7	10690.7	10690.7	10690.7	10690.7	10690.7	10690.7	10690.7
2.5°	11717.3	11712.7	11661.6	11638.3	11596.5	11508.3	11371.2	11299.2	11183.1	10981.1	10709.3
5°	11610.5	11666.2	11696.4	11698.7	11728.9	11696.4	11573.3	11512.9	11352.7	11027.5	10539.8
7.5°	10885.8	10906.7	10992.7	11067.0	11211.0	11348.0	11392.1	11366.6	11271.4	10923.0	10275.0
10°	10110.1	10131.0	10233.2	10330.7	10525.8	10737.2	10960.2	11006.6	11046.1	10774.3	10019.5
12.5°	9441.2	9462.1	9566.6	9694.4	9922.0	10182.1	10528.2	10604.8	10779.0	10632.7	9815.1
15°	8865.2	8874.5	8976.7	9134.6	9406.4	9740.8	10133.3	10256.4	10523.5	10532.8	9636.3
17.5°	8375.1	8398.4	8461.1	8612.0	8909.3	9322.7	9780.3	9956.8	10270.4	10449.2	9462.1
20°	8075.5	8098.8	8096.4	8180.0	8447.1	8888.4	9427.3	9638.6	10019.5	10363.3	9306.5
22.5°	8017.5	8017.5	7957.1	7945.5	8103.4	8472.7	9060.3	9318.1	9794.2	10326.1	9197.3
25°	8224.2	8214.9	8063.9	7940.8	7947.8	8168.4	8704.9	9011.5	9603.8	10351.6	9139.3
27.5°	8660.8	8649.2	8458.8	8224.2	8036.1	8033.7	8435.5	8765.3	9452.8	10472.4	9162.5
30°	9264.7	9260.0	9053.3	8758.4	8416.9	8103.4	8342.6	8642.2	9355.3	10690.7	9215.9
32.5°	9924.3	9917.3	9761.7	9450.5	9018.5	8416.9	8440.2	8691.0	9383.1	10981.1	9346.0
35°	10623.4	10611.8	10544.4	10272.7	9796.5	8995.3	8760.7	8955.8	9559.6	11415.4	9601.5
37.5°	11380.5	11392.1	11440.9	11180.8	10681.4	9805.8	9297.2	9429.6	9915.0	12005.3	10017.2
40°	12497.7	12495.4	12511.6	12170.2	11689.4	10797.6	10047.4	10089.2	10509.6	12788.0	10648.9
42.5°	14525.3	14383.6	13953.9	13257.2	12774.1	11931.0	10992.7	10948.5	11236.5	13756.5	11533.8
45°	17249.6	16947.7	15832.9	14497.4	13879.6	13208.4	12156.3	12014.6	12198.1	14920.1	12625.4
47.5°	19593.1	19279.6	17702.5	15788.7	15052.5	14420.8	13519.6	13264.1	13324.5	16223.1	14009.7
50°	20389.7	20236.4	18859.2	16912.9	16188.2	15946.7	15101.3	14790.0	14704.1	17730.4	15614.6
52.5°	20113.4	20101.7	19184.3	17642.1	17228.7	17526.0	17091.7	16731.7	16415.8	19319.0	17247.3
55°	19669.7	19727.8	19316.7	18280.9	18266.9	18968.3	19813.7	19514.1	18599.0	21044.7	18654.8
57.5°	18445.8	18694.3	19242.4	19488.6	20059.9	20777.6	22080.6	22257.1	21174.8	22366.2	19823.0
60°	14966.6	15512.4	17305.4	19662.8	22370.9	24159.2	24816.5	24967.5	23288.3	23464.8	21400.0
62.5°	10623.4	11180.8	13454.6	17442.4	22405.7	28602.3	28892.6	28300.4	25615.5	25092.9	24119.8
65°	5639.2	6068.8	7926.9	12590.6	19425.9	29633.5	36020.6	34255.4	29721.8	28295.7	27633.8
67.5°	2884.6	3014.7	3753.3	6161.7	13354.7	26321.5	42409.9	43652.5	36798.6	31473.0	27464.2
69°	2552.5	2629.1	3119.2	4454.7	8551.7	22294.2	42721.1	46878.5	40503.1	31208.2	24958.2
70°	2471.2	2538.6	2984.5	4032.0	6684.3	18696.6	41529.7	46595.2	41450.7	30200.2	23086.2
72.5°	2097.3	2155.3	2657.0	3562.8	5432.5	9280.9	33735.2	39483.5	37195.8	25157.9	16710.8
75°	1402.8	1593.3	2550.2	3339.8	5053.9	5272.2	22240.8	28532.6	26505.0	16968.6	8704.9
77.5°	336.8	362.3	720.0	2657.0	4621.9	4640.5	11438.6	17737.4	14467.2	6047.9	2057.8
80°	181.2	174.2	202.1	527.2	4303.7	4354.8	5149.1	8609.7	5165.4	1003.3	678.2
82.5°	127.7	120.8	130.1	220.6	1354.1	3966.9	3725.4	3897.3	2141.4	385.5	304.3
85°	46.5	44.1	72.0	199.7	425.0	2280.8	3827.6	3214.4	1735.0	176.5	223.0
87.5°	16.3	13.9	27.9	109.2	130.1	970.8	2362.0	2429.4	682.8	106.8	104.5
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°	10690.7	10690.7	10690.7	10690.7	10690.7	10690.7	10690.7	10690.7	10690.7	10690.7	10690.7
2.5°	10595.5	10451.5	10186.7	9915.0	9664.2	9362.2	9211.3	9062.6	8999.9	8976.7	8867.5
5°	10288.9	10045.1	9483.0	8918.6	8398.4	7845.6	7481.0	7188.3	7016.4	6932.8	6800.4
7.5°	9896.4	9496.9	8644.6	7773.6	6963.0	6164.1	5571.8	5116.6	4803.0	4652.1	4515.1
10°	9515.5	8983.7	7771.3	6584.5	5483.6	4424.5	3606.9	3014.7	2636.1	2461.9	2350.4
12.5°	9174.1	8484.3	6928.2	5425.5	4043.6	2803.3	1971.9	1500.4	1265.8	1184.5	1145.0
15°	8869.8	8024.4	6131.6	4324.6	2738.3	1602.6	1077.7	917.4	880.2	880.2	875.6
17.5°	8581.9	7573.9	5362.8	3291.1	1718.7	980.1	819.9	799.0	799.0	808.3	808.3
20°	8305.5	7144.2	4619.6	2362.0	1082.3	778.1	740.9	736.3	740.9	752.5	752.5
22.5°	8068.6	6754.0	3925.1	1621.1	803.6	701.4	682.8	675.9	678.2	685.2	689.8
25°	7892.1	6424.2	3270.2	1098.6	692.1	638.7	617.8	606.2	596.9	596.9	601.5
27.5°	7780.6	6145.5	2636.1	799.0	622.4	580.6	548.1	529.5	508.6	497.0	501.7
30°	7699.3	5880.7	2041.5	652.6	557.4	515.6	473.8	443.6	413.4	399.5	404.1
32.5°	7669.1	5667.0	1525.9	576.0	499.3	452.9	401.8	362.3	329.8	318.2	320.5
35°	7750.4	5497.5	1117.2	520.3	452.9	394.8	336.8	292.6	267.1	260.1	262.4
37.5°	7964.1	5406.9	836.1	473.8	411.1	346.1	281.0	239.2	223.0	223.0	225.3
40°	8368.2	5404.6	671.2	441.3	373.9	299.6	232.3	202.1	192.8	197.4	199.7
42.5°	8958.1	5527.7	585.3	411.1	341.4	255.5	192.8	171.9	169.5	174.2	176.5
45°	9764.0	5753.0	538.8	385.5	306.6	213.7	162.6	148.6	148.6	155.6	157.9
47.5°	10751.1	6082.8	499.3	360.0	271.7	178.8	139.4	130.1	132.4	139.4	141.7
50°	11940.3	6498.5	459.9	332.1	246.2	148.6	120.8	113.8	116.1	125.4	127.7
52.5°	13294.3	7058.3	427.4	306.6	213.7	123.1	102.2	97.5	102.2	111.5	113.8
55°	14455.6	7559.9	387.9	285.7	171.9	102.2	83.6	83.6	88.3	99.9	102.2
57.5°	15572.8	8084.8	353.0	246.2	134.7	81.3	69.7	72.0	79.0	90.6	92.9
60°	17212.5	8974.4	311.2	206.7	102.2	65.0	58.1	60.4	69.7	81.3	83.6
62.5°	19997.2	10328.4	269.4	171.9	79.0	51.1	46.5	51.1	62.7	76.6	79.0
65°	22510.2	10878.9	220.6	144.0	60.4	39.5	39.5	46.5	60.4	74.3	76.6
67.5°	21109.7	9157.8	171.9	113.8	46.5	30.2	32.5	44.1	58.1	74.3	76.6
69°	18668.7	7487.9	146.3	90.6	39.5	27.9	30.2	44.1	58.1	72.0	74.3
70°	16766.5	6322.0	130.1	76.6	34.8	27.9	30.2	41.8	58.1	72.0	74.3
72.5°	11229.6	3414.2	104.5	55.7	32.5	25.5	25.5	41.8	55.7	69.7	72.0
75°	4826.3	943.0	83.6	39.5	27.9	23.2	23.2	39.5	53.4	67.4	72.0
77.5°	882.6	239.2	67.4	34.8	27.9	23.2	20.9	37.2	51.1	65.0	67.4
80°	350.7	118.5	53.4	30.2	25.5	20.9	18.6	34.8	48.8	62.7	65.0
82.5°	211.4	67.4	44.1	27.9	25.5	18.6	16.3	30.2	46.5	60.4	62.7
85°	171.9	46.5	34.8	27.9	23.2	18.6	13.9	27.9	41.8	58.1	60.4
87.5°	83.6	32.5	32.5	25.5	23.2	18.6	13.9	25.5	39.5	55.7	58.1
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)