

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: P191846

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7050-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191846  
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-SL2-7050-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 31924 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - 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

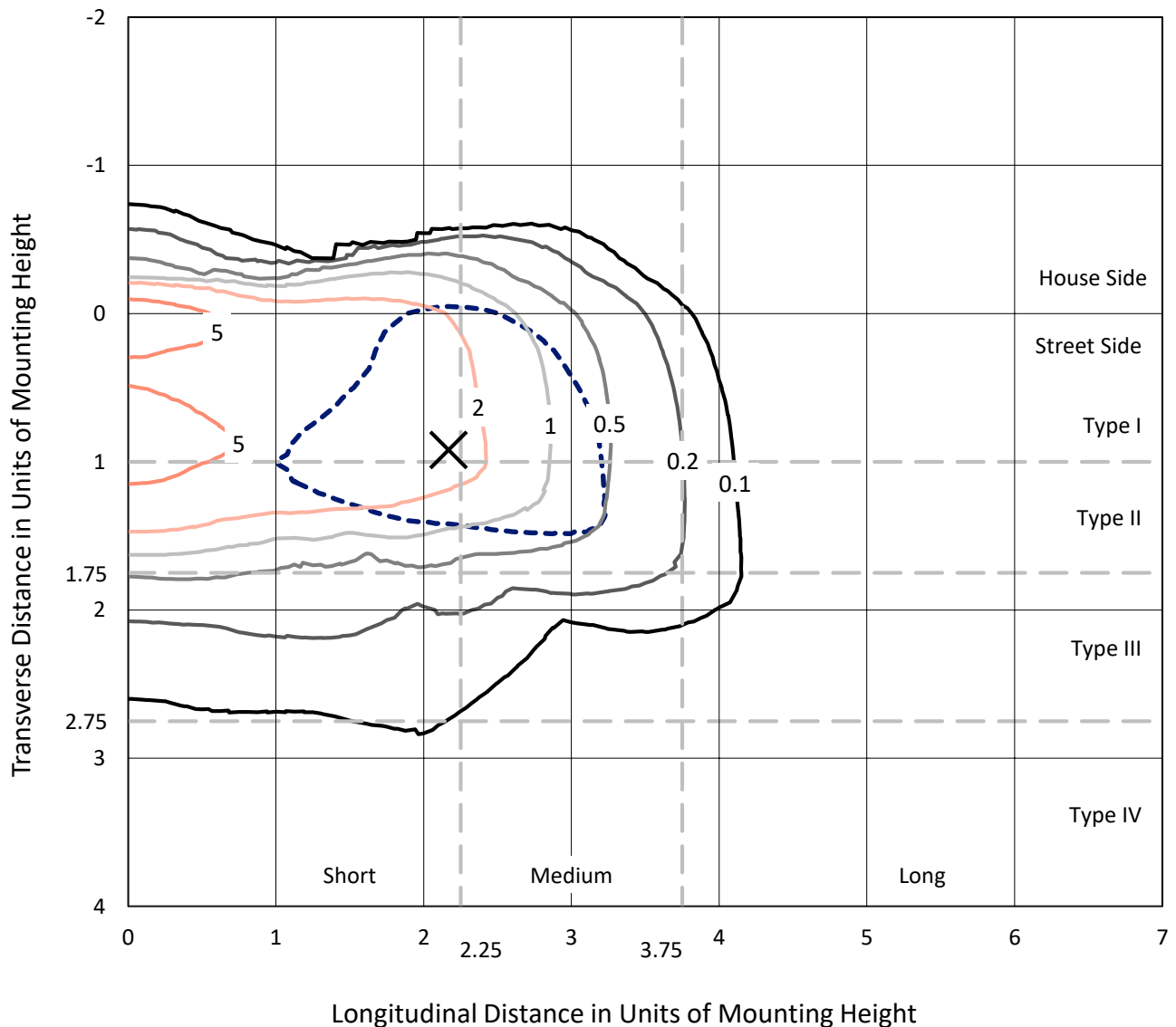


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

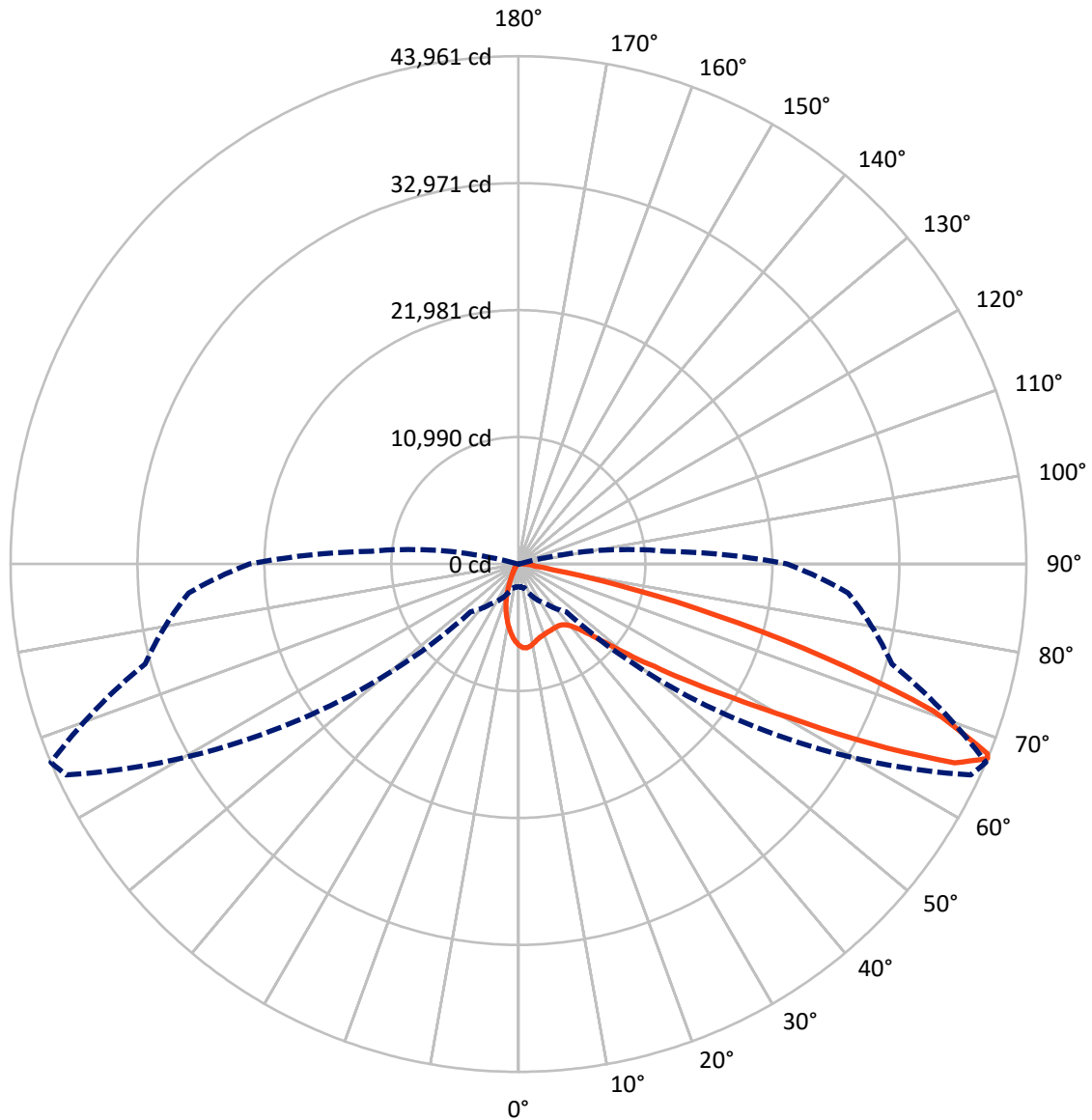


Based on 30 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - Semi-Cutoff

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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	3314.7	0.0	3314.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	28609.3	0.0	28609.3
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	31924.0	0.0	31924.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	572.9	1.8
10°-20°	1219.3	3.8
20°-30°	1772.7	5.6
30°-40°	2765.5	8.7
40°-50°	4899.0	15.3
50°-60°	7752.2	24.3
60°-70°	8879.0	27.8
70°-80°	3683.0	11.5
80°-90°	380.4	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°	31924.0	100.0
0°-180°	31924.0	100.0



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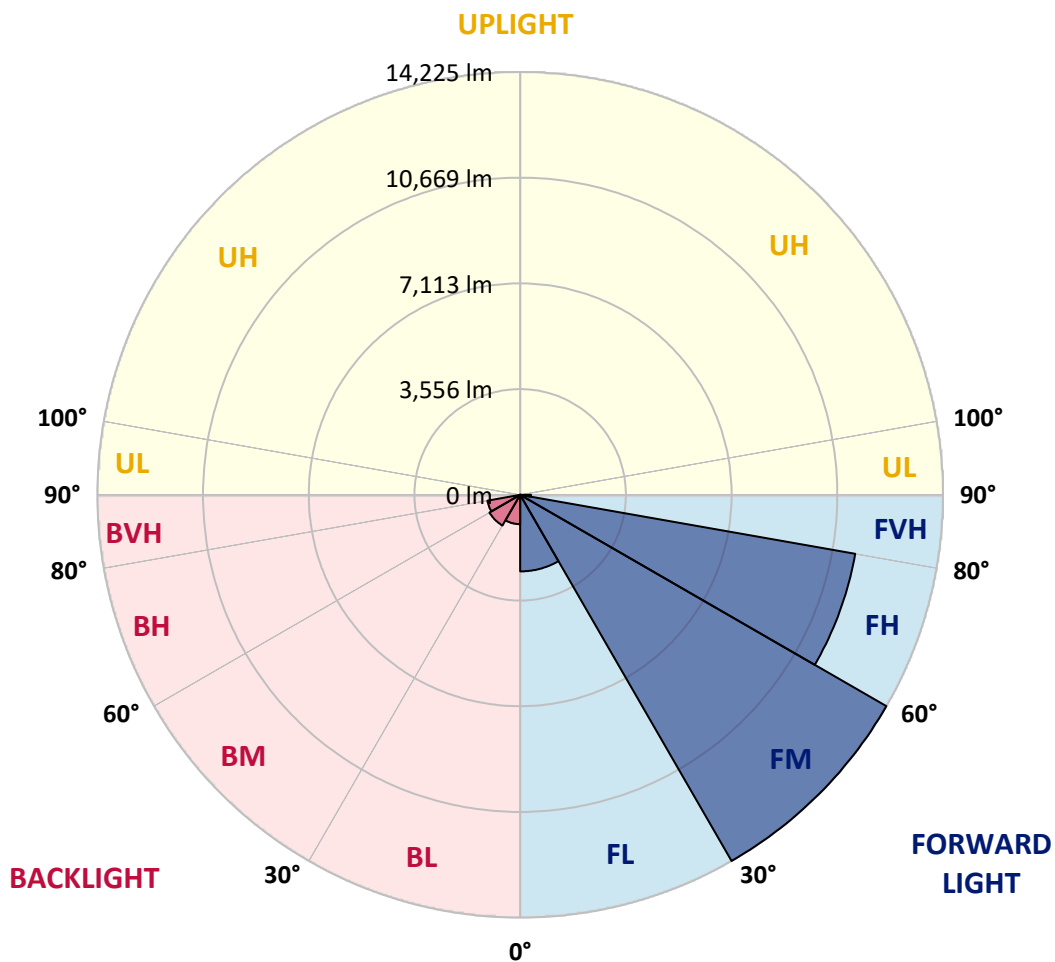
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2575.8	8.1			
FM (30°-60°)	14225.4	44.6			
FH (60°-80°)	11444.8	35.9			G4/12000
FVH (80°-90°)	363.3	1.1			G3/500
BL (0°-30°)	989.1	3.1	B2/1000		
BM (30°-60°)	1191.3	3.7	B2/2500		
BH (60°-80°)	1117.2	3.5	B3/2500		G3/2500
BVH (80°-90°)	17.1	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°	7040.4	7040.4	7040.4	7040.4	7040.4	7040.4	7040.4	7040.4	7040.4	7040.4	7040.4
2.5°	7278.8	7293.7	7291.8	7303.0	7329.0	7330.9	7304.8	7254.6	7243.4	7178.2	7064.6
5°	6712.7	6755.5	6781.6	6887.7	7006.9	7150.3	7258.3	7297.4	7291.8	7245.2	7073.9
7.5°	6066.6	6109.4	6139.2	6263.9	6422.2	6668.0	6949.2	7180.1	7200.6	7250.8	7066.5
10°	5636.4	5643.9	5684.8	5804.0	5969.7	6221.1	6556.3	6960.4	7021.8	7206.1	7047.9
12.5°	5282.6	5288.2	5342.2	5470.7	5647.6	5900.8	6252.8	6720.1	6815.1	7150.3	7044.1
15°	5031.3	5051.7	5100.2	5234.2	5422.3	5673.7	6034.9	6543.3	6656.8	7129.8	7077.7
17.5°	4947.5	4969.8	4984.7	5081.5	5252.9	5498.6	5869.2	6427.8	6556.3	7141.0	7142.8
20°	5035.0	5051.7	5018.2	5042.4	5148.6	5368.3	5729.5	6329.1	6481.8	7154.0	7226.6
22.5°	5360.8	5368.3	5277.1	5170.9	5152.3	5273.3	5619.7	6250.9	6414.8	7189.4	7325.3
25°	5919.5	5906.4	5757.5	5528.4	5312.4	5256.6	5554.5	6202.5	6381.3	7226.6	7427.7
27.5°	6593.5	6612.1	6407.3	6074.0	5662.5	5368.3	5545.2	6182.0	6366.4	7252.7	7517.1
30°	7412.8	7438.9	7204.3	6785.3	6195.0	5643.9	5630.8	6178.3	6357.0	7235.9	7524.6
32.5°	8248.9	8280.5	8096.2	7664.2	6906.4	6105.7	5824.5	6219.3	6375.7	7178.2	7481.7
35°	9124.1	9168.7	9045.9	8675.3	7870.9	6772.3	6165.3	6344.0	6463.2	7172.6	7438.9
37.5°	10332.5	10373.5	10142.6	9749.7	9038.4	7666.1	6712.7	6578.6	6669.9	7262.0	7450.1
40°	12136.9	12131.3	11535.4	10934.0	10321.4	8801.9	7481.7	7003.2	7049.7	7532.0	7587.9
42.5°	14103.2	14093.9	13213.1	12298.9	11745.8	10200.3	8492.8	7736.8	7705.2	8029.2	7945.4
45°	15618.9	15617.0	14898.3	13868.6	13460.8	11805.4	9800.0	8757.2	8708.8	8837.3	8604.5
47.5°	16265.0	16276.2	15915.0	15190.6	15361.9	13976.6	11447.9	10235.7	10163.1	10110.9	9757.2
50°	15762.3	15784.6	15814.4	15672.9	16756.6	16894.4	13658.2	12319.3	12284.0	12051.2	11498.2
52.5°	14119.9	14233.5	14583.6	15032.4	17240.7	19694.9	17123.4	14907.6	14717.7	14470.0	13861.1
55°	11352.9	11477.7	12142.4	13231.7	16520.1	21534.6	21979.7	18244.4	17927.8	17188.6	16309.7
57.5°	7513.4	7707.0	8671.6	10056.9	14427.2	21830.7	26824.7	22875.3	21773.0	19748.9	18758.3
60°	4139.3	4325.5	5372.0	6627.0	10420.0	20367.1	30083.3	28904.6	26956.9	22610.9	21732.0
62.5°	2549.2	2649.7	3422.5	4590.0	6249.0	16075.1	30757.4	36481.3	34226.4	26295.9	25323.9
65°	2029.6	2072.5	2450.5	3752.0	4480.1	9561.6	28580.6	42257.4	41505.2	30757.4	28539.7
67°	1970.1	1986.8	2165.6	3221.4	4223.1	5861.7	23944.1	43197.8	43961.2	33457.4	28640.2
67.5°	1983.1	2001.7	2171.2	3074.2	4215.7	5386.9	22346.5	42827.2	43791.8	33671.5	28195.2
70°	1912.3	1970.1	2485.8	3072.4	4009.0	4476.4	13382.6	37107.0	38110.6	31286.2	23923.7
72.5°	677.8	681.5	1074.4	2485.8	4359.1	4524.8	6720.1	27202.7	27945.7	23933.0	17248.2
75°	402.2	342.6	357.5	707.6	4165.4	4394.4	3876.8	17382.3	17659.7	13714.0	8734.9
77.5°	277.4	242.1	249.5	312.8	1586.5	4333.0	3079.8	9064.5	8768.4	4809.7	1860.2
80°	158.3	139.7	149.0	273.7	577.2	4042.5	2904.8	3675.7	3133.8	815.6	513.9
82.5°	83.8	70.8	85.7	225.3	402.2	2519.4	2910.4	1776.4	1407.7	275.6	350.1
85°	29.8	24.2	41.0	154.6	268.1	772.8	2698.1	1493.4	1173.1	134.1	266.3
87.5°	5.6	5.6	16.8	63.3	108.0	236.5	1595.8	886.3	594.0	80.1	182.5
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°	7040.4	7040.4	7040.4	7040.4	7040.4	7040.4	7040.4	7040.4	7040.4	7040.4	7040.4
2.5°	7018.1	6938.0	6830.0	6697.8	6541.4	6403.6	6301.2	6195.0	6172.7	6135.5	6129.9
5°	6971.5	6833.7	6565.6	6258.4	5930.6	5634.6	5394.4	5180.2	5085.3	5003.3	4994.0
7.5°	6902.6	6695.9	6239.7	5744.4	5232.4	4766.9	4372.1	4092.8	3835.8	3712.9	3694.3
10°	6822.6	6526.5	5872.9	5185.8	4478.2	3820.9	3234.4	2742.8	2444.9	2268.0	2245.6
12.5°	6748.1	6360.8	5498.6	4606.7	3666.4	2787.5	2033.4	1564.1	1251.3	1124.7	1109.8
15°	6712.7	6226.7	5148.6	4014.6	2817.3	1774.5	1111.6	860.3	757.9	728.1	726.2
17.5°	6709.0	6113.1	4806.0	3402.0	1973.8	1031.6	724.3	661.0	640.5	633.1	633.1
20°	6707.1	6005.1	4463.3	2767.0	1253.2	687.1	603.3	588.4	573.5	564.2	564.2
22.5°	6727.6	5908.3	4105.8	2119.0	789.5	556.8	530.7	515.8	497.2	484.1	482.3
25°	6748.1	5833.8	3740.9	1508.3	571.7	484.1	458.1	437.6	411.5	394.8	392.9
27.5°	6751.8	5740.7	3349.8	1009.2	478.5	422.7	389.2	357.5	327.7	311.0	309.1
30°	6695.9	5584.3	2916.0	681.5	422.7	366.8	322.1	288.6	260.7	247.7	247.7
32.5°	6586.1	5390.6	2439.3	513.9	376.1	314.7	266.3	234.6	216.0	210.4	208.5
35°	6487.4	5182.1	1949.6	435.7	337.0	266.3	217.9	197.4	186.2	184.3	182.5
37.5°	6429.7	5014.5	1489.6	394.8	299.8	223.4	184.3	169.4	163.9	160.1	162.0
40°	6474.4	4874.9	1100.5	361.2	262.5	186.2	156.4	149.0	143.4	141.5	141.5
42.5°	6669.9	4850.6	817.4	331.4	227.2	154.6	135.9	130.3	126.6	124.8	126.6
45°	7183.8	4999.6	635.0	303.5	191.8	130.3	115.4	113.6	111.7	111.7	111.7
47.5°	7956.6	5306.8	528.8	271.9	160.1	111.7	100.6	98.7	96.8	98.7	98.7
50°	9265.6	5869.2	473.0	240.2	132.2	95.0	85.7	85.7	85.7	85.7	87.5
52.5°	11256.1	6975.2	435.7	208.5	108.0	80.1	72.6	72.6	74.5	74.5	76.3
55°	13473.8	8442.5	402.2	176.9	91.2	67.0	59.6	61.4	63.3	65.2	65.2
57.5°	15879.6	10068.1	374.3	145.2	78.2	54.0	50.3	52.1	54.0	57.7	57.7
60°	18782.5	11827.8	333.3	113.6	65.2	42.8	39.1	42.8	48.4	52.1	54.0
62.5°	21970.4	13529.7	281.2	89.4	54.0	33.5	31.7	39.1	46.6	50.3	52.1
65°	24149.0	14064.1	216.0	72.6	41.0	24.2	26.1	35.4	44.7	50.3	50.3
67°	23266.3	12751.3	176.9	61.4	33.5	18.6	24.2	35.4	44.7	48.4	50.3
67.5°	22653.7	12237.4	169.4	59.6	31.7	18.6	24.2	35.4	44.7	50.3	50.3
70°	18432.5	9193.0	141.5	44.7	26.1	16.8	20.5	33.5	42.8	48.4	48.4
72.5°	12807.2	5668.1	126.6	31.7	22.3	14.9	18.6	31.7	41.0	46.6	48.4
75°	6088.9	2052.0	108.0	24.2	20.5	13.0	16.8	31.7	41.0	46.6	46.6
77.5°	1242.0	476.7	87.5	20.5	16.8	13.0	14.9	29.8	39.1	44.7	44.7
80°	407.8	184.3	65.2	18.6	16.8	13.0	14.9	27.9	39.1	42.8	44.7
82.5°	294.2	93.1	42.8	18.6	16.8	13.0	13.0	27.9	37.2	42.8	42.8
85°	225.3	65.2	27.9	18.6	16.8	13.0	13.0	26.1	35.4	41.0	41.0
87.5°	149.0	26.1	22.3	18.6	16.8	13.0	13.0	26.1	33.5	39.1	41.0
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)