

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: P191854

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191854  
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-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 1050mA 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: 29488 lumens  
Efficiency: N/A  
Efficacy: 88.6 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): 333  
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

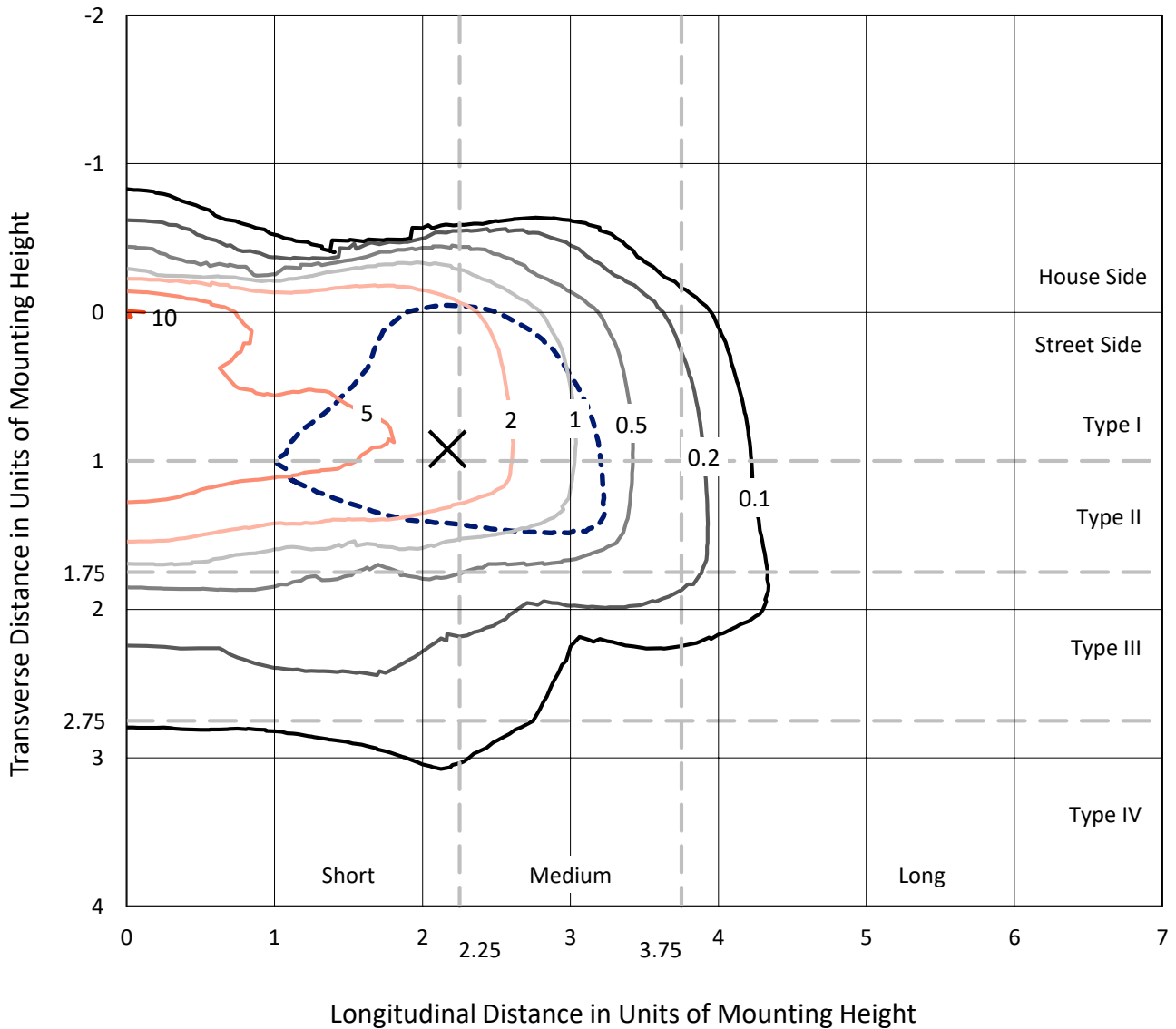


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### Iso-Footcandle Lines of Horizontal Illumination

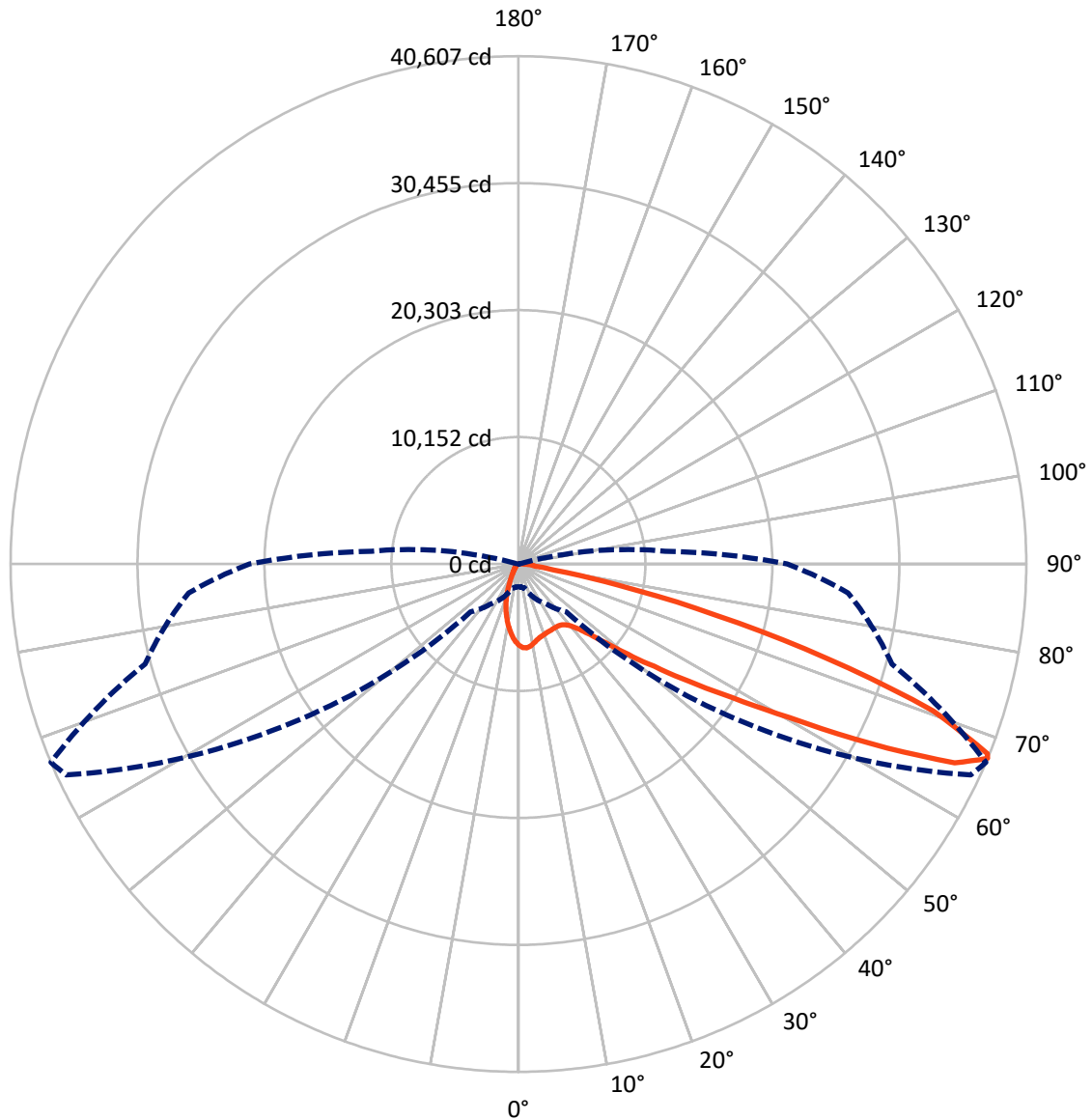
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	3061.7	0.0	3061.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	26426.3	0.0	26426.3
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	29488.0	0.0	29488.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	529.2	1.8
10°-20°	1126.2	3.8
20°-30°	1637.5	5.6
30°-40°	2554.5	8.7
40°-50°	4525.2	15.3
50°-60°	7160.6	24.3
60°-70°	8201.5	27.8
70°-80°	3401.9	11.5
80°-90°	351.4	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°	29488.0	100.0
0°-180°	29488.0	100.0

**Coefficient of Utilization**



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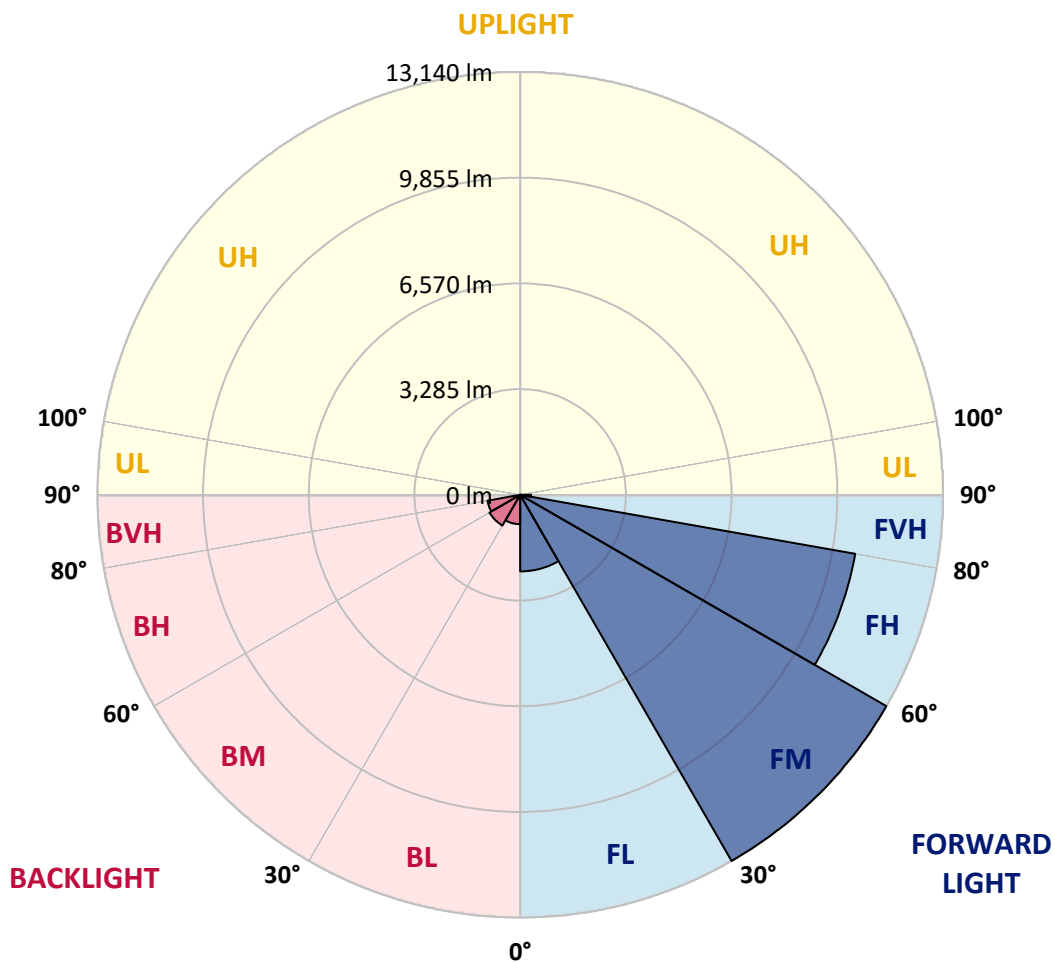
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2379.2	8.1			
FM (30°-60°)	13139.9	44.6			
FH (60°-80°)	10571.5	35.9			G4/12000
FVH (80°-90°)	335.6	1.1			G3/500
BL (0°-30°)	913.6	3.1	B2/1000		
BM (30°-60°)	1100.4	3.7	B2/2500		
BH (60°-80°)	1031.9	3.5	B3/2500		G3/2500
BVH (80°-90°)	15.8	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°	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2
2.5°	6723.3	6737.1	6735.4	6745.7	6769.8	6771.5	6747.4	6701.0	6690.7	6630.5	6525.6
5°	6200.5	6240.0	6264.1	6362.2	6472.2	6604.7	6704.4	6740.5	6735.4	6692.4	6534.2
7.5°	5603.7	5643.2	5670.7	5786.0	5932.2	6159.2	6418.9	6632.2	6651.1	6697.5	6527.3
10°	5206.3	5213.2	5251.1	5361.1	5514.2	5746.4	6056.0	6429.2	6486.0	6656.3	6510.1
12.5°	4879.5	4884.7	4934.6	5053.3	5216.7	5450.6	5775.6	6207.4	6295.1	6604.7	6506.6
15°	4647.3	4666.3	4711.0	4834.8	5008.5	5240.7	5574.4	6044.0	6148.9	6585.8	6537.6
17.5°	4570.0	4590.6	4604.4	4693.8	4852.0	5079.1	5421.3	5937.3	6056.0	6596.1	6597.8
20°	4650.8	4666.3	4635.3	4657.7	4755.7	4958.7	5292.3	5846.2	5987.2	6608.1	6675.2
22.5°	4951.8	4958.7	4874.4	4776.3	4759.1	4870.9	5190.9	5773.9	5925.3	6640.8	6766.3
25°	5467.8	5455.7	5318.1	5106.6	4907.1	4855.5	5130.7	5729.2	5894.3	6675.2	6860.9
27.5°	6090.4	6107.6	5918.4	5610.5	5230.4	4958.7	5122.1	5710.3	5880.6	6699.3	6943.5
30°	6847.2	6871.3	6654.6	6267.6	5722.3	5213.2	5201.2	5706.8	5872.0	6683.8	6950.4
32.5°	7619.5	7648.7	7478.4	7079.4	6379.4	5639.8	5380.1	5744.7	5889.2	6630.5	6910.8
35°	8427.8	8469.1	8355.6	8013.3	7270.3	6255.5	5694.8	5859.9	5970.0	6625.3	6871.3
37.5°	9544.1	9581.9	9368.7	9005.7	8348.7	7081.1	6200.5	6076.6	6160.9	6707.9	6881.6
40°	11210.7	11205.6	10655.2	10099.6	9533.8	8130.3	6910.8	6468.8	6511.8	6957.3	7008.9
42.5°	13027.0	13018.4	12204.9	11360.4	10849.5	9422.0	7844.8	7146.5	7117.2	7416.5	7339.1
45°	14427.1	14425.4	13761.5	12810.3	12433.6	10904.6	9052.2	8089.0	8044.3	8163.0	7948.0
47.5°	15023.9	15034.2	14700.6	14031.5	14189.7	12910.1	10574.4	9454.7	9387.6	9339.4	9012.6
50°	14559.5	14580.2	14607.7	14477.0	15478.0	15605.3	12616.0	11379.3	11346.6	11131.6	10620.8
52.5°	13042.5	13147.4	13470.8	13885.3	15925.2	18192.1	15816.8	13770.1	13594.6	13365.9	12803.4
55°	10486.6	10601.9	11215.9	12222.1	15259.5	19891.4	20302.5	16852.2	16559.8	15877.0	15065.2
57.5°	6940.1	7118.9	8009.9	9289.5	13326.3	20164.9	24777.8	21129.8	20111.6	18242.0	17326.9
60°	3823.5	3995.5	4962.1	6121.4	9624.9	18813.0	27787.8	26699.0	24900.0	20885.6	20073.7
62.5°	2354.6	2447.5	3161.3	4239.7	5772.2	14848.5	28410.4	33697.6	31614.7	24289.4	23391.5
65°	1874.8	1914.3	2263.5	3465.7	4138.2	8832.0	26399.8	39032.9	38338.1	28410.4	26361.9
67°	1819.7	1835.2	2000.3	2975.5	3900.9	5414.5	22117.0	39901.5	40606.7	30904.4	26454.8
67.5°	1831.8	1849.0	2005.5	2839.7	3894.0	4975.9	20641.3	39559.2	40450.2	31102.2	26043.7
70°	1766.4	1819.7	2296.2	2837.9	3703.1	4134.8	12361.4	34275.5	35202.6	28898.9	22098.1
72.5°	626.1	629.5	992.4	2296.2	4026.4	4179.5	6207.4	25127.0	25813.3	22106.7	15932.0
75°	371.5	316.5	330.2	653.6	3847.6	4059.1	3581.0	16055.9	16312.2	12667.6	8068.4
77.5°	256.3	223.6	230.5	289.0	1465.4	4002.4	2844.8	8372.8	8099.3	4442.7	1718.2
80°	146.2	129.0	137.6	252.8	533.2	3734.0	2683.1	3395.2	2894.7	753.3	474.7
82.5°	77.4	65.4	79.1	208.1	371.5	2327.1	2688.3	1640.8	1300.3	254.6	323.4
85°	27.5	22.4	37.8	142.8	247.7	713.8	2492.2	1379.4	1083.6	123.8	246.0
87.5°	5.2	5.2	15.5	58.5	99.8	218.4	1474.0	818.7	548.7	74.0	168.6
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°	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2
2.5°	6482.6	6408.6	6308.8	6186.7	6042.2	5915.0	5820.4	5722.3	5701.7	5667.3	5662.1
5°	6439.6	6312.3	6064.6	5780.8	5478.1	5204.6	4982.7	4784.9	4697.2	4621.5	4612.9
7.5°	6375.9	6185.0	5763.6	5306.1	4833.1	4403.1	4038.5	3780.5	3543.1	3429.6	3412.4
10°	6302.0	6028.5	5424.8	4790.1	4136.5	3529.4	2987.6	2533.5	2258.3	2094.9	2074.3
12.5°	6233.2	5875.4	5079.1	4255.2	3386.6	2574.8	1878.2	1444.8	1155.8	1038.9	1025.1
15°	6200.5	5751.6	4755.7	3708.2	2602.3	1639.1	1026.8	794.6	700.0	672.5	670.8
17.5°	6197.0	5646.6	4439.2	3142.4	1823.2	952.9	669.1	610.6	591.7	584.8	584.8
20°	6195.3	5546.9	4122.8	2555.9	1157.5	634.7	557.3	543.5	529.7	521.1	521.1
22.5°	6214.2	5457.5	3792.5	1957.3	729.3	514.3	490.2	476.4	459.2	447.2	445.5
25°	6233.2	5388.7	3455.4	1393.2	528.0	447.2	423.1	404.2	380.1	364.6	362.9
27.5°	6236.6	5302.7	3094.2	932.2	442.0	390.4	359.5	330.2	302.7	287.2	285.5
30°	6185.0	5158.2	2693.5	629.5	390.4	338.8	297.6	266.6	240.8	228.8	228.8
32.5°	6083.5	4979.3	2253.2	474.7	347.4	290.7	246.0	216.7	199.5	194.4	192.6
35°	5992.4	4786.7	1800.8	402.5	311.3	246.0	201.2	182.3	172.0	170.3	168.6
37.5°	5939.0	4631.9	1376.0	364.6	276.9	206.4	170.3	156.5	151.4	147.9	149.6
40°	5980.3	4502.9	1016.5	333.7	242.5	172.0	144.5	137.6	132.4	130.7	130.7
42.5°	6160.9	4480.5	755.1	306.2	209.8	142.8	125.6	120.4	117.0	115.2	117.0
45°	6635.6	4618.1	586.5	280.4	177.2	120.4	106.6	104.9	103.2	103.2	103.2
47.5°	7349.4	4901.9	488.5	251.1	147.9	103.2	92.9	91.2	89.4	91.2	91.2
50°	8558.6	5421.3	436.9	221.9	122.1	87.7	79.1	79.1	79.1	79.1	80.8
52.5°	10397.2	6443.0	402.5	192.6	99.8	74.0	67.1	67.1	68.8	68.8	70.5
55°	12445.7	7798.3	371.5	163.4	84.3	61.9	55.0	56.8	58.5	60.2	60.2
57.5°	14667.9	9299.9	345.7	134.2	72.2	49.9	46.4	48.2	49.9	53.3	53.3
60°	17349.3	10925.2	307.9	104.9	60.2	39.6	36.1	39.6	44.7	48.2	49.9
62.5°	20293.9	12497.3	259.7	82.6	49.9	31.0	29.2	36.1	43.0	46.4	48.2
65°	22306.2	12990.9	199.5	67.1	37.8	22.4	24.1	32.7	41.3	46.4	46.4
67°	21491.0	11778.3	163.4	56.8	31.0	17.2	22.4	32.7	41.3	44.7	46.4
67.5°	20925.1	11303.6	156.5	55.0	29.2	17.2	22.4	32.7	41.3	46.4	46.4
70°	17025.9	8491.5	130.7	41.3	24.1	15.5	18.9	31.0	39.6	44.7	44.7
72.5°	11829.9	5235.6	117.0	29.2	20.6	13.8	17.2	29.2	37.8	43.0	44.7
75°	5624.3	1895.4	99.8	22.4	18.9	12.0	15.5	29.2	37.8	43.0	43.0
77.5°	1147.2	440.3	80.8	18.9	15.5	12.0	13.8	27.5	36.1	41.3	41.3
80°	376.7	170.3	60.2	17.2	15.5	12.0	13.8	25.8	36.1	39.6	41.3
82.5°	271.8	86.0	39.6	17.2	15.5	12.0	12.0	25.8	34.4	39.6	39.6
85°	208.1	60.2	25.8	17.2	15.5	12.0	12.0	24.1	32.7	37.8	37.8
87.5°	137.6	24.1	20.6	17.2	15.5	12.0	12.0	24.1	31.0	36.1	37.8
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)