

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: P269399

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7027-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269399  
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-06-LED-E1-SL3-7027-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1200mA 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: 28988.1 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - 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

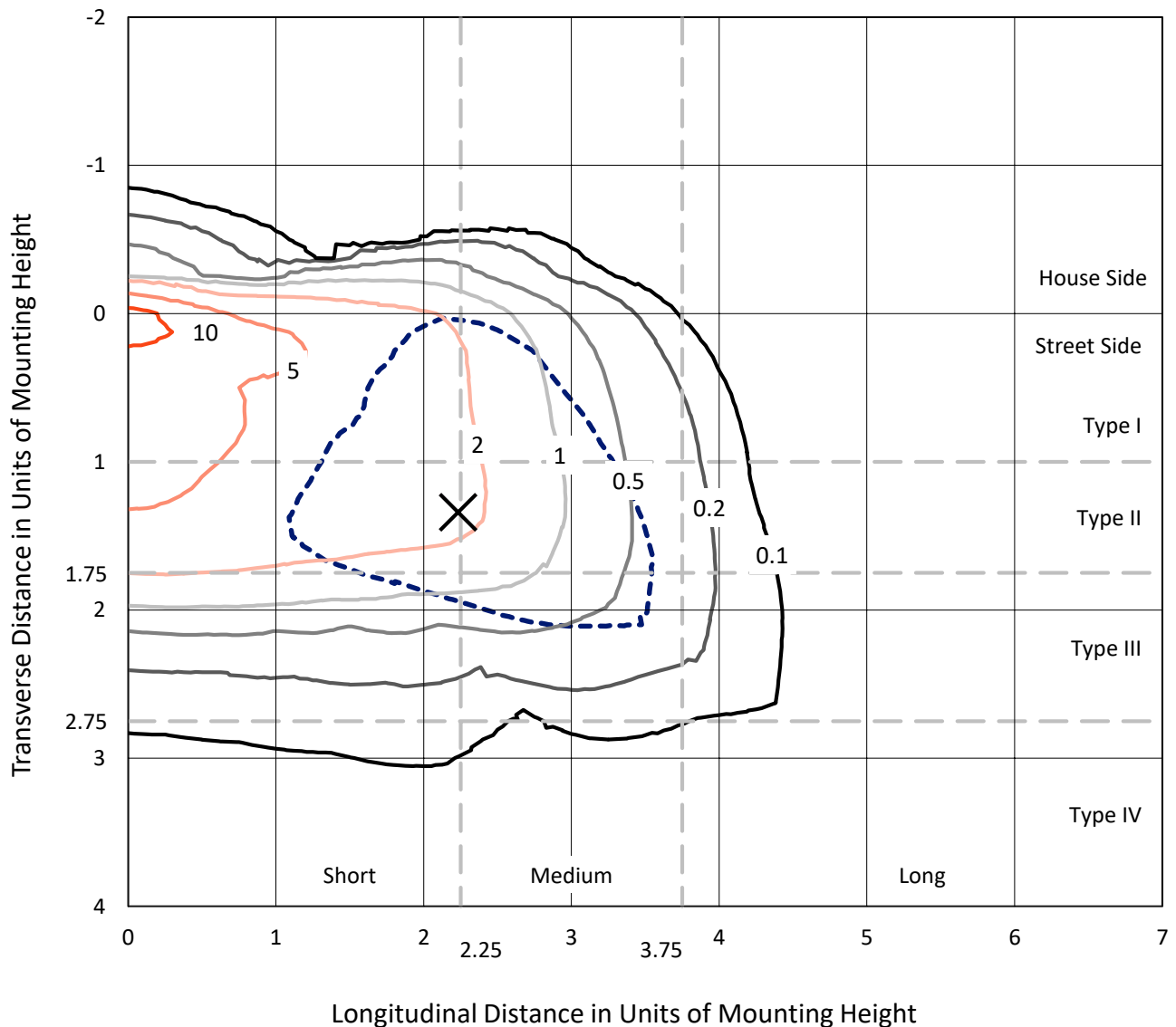


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

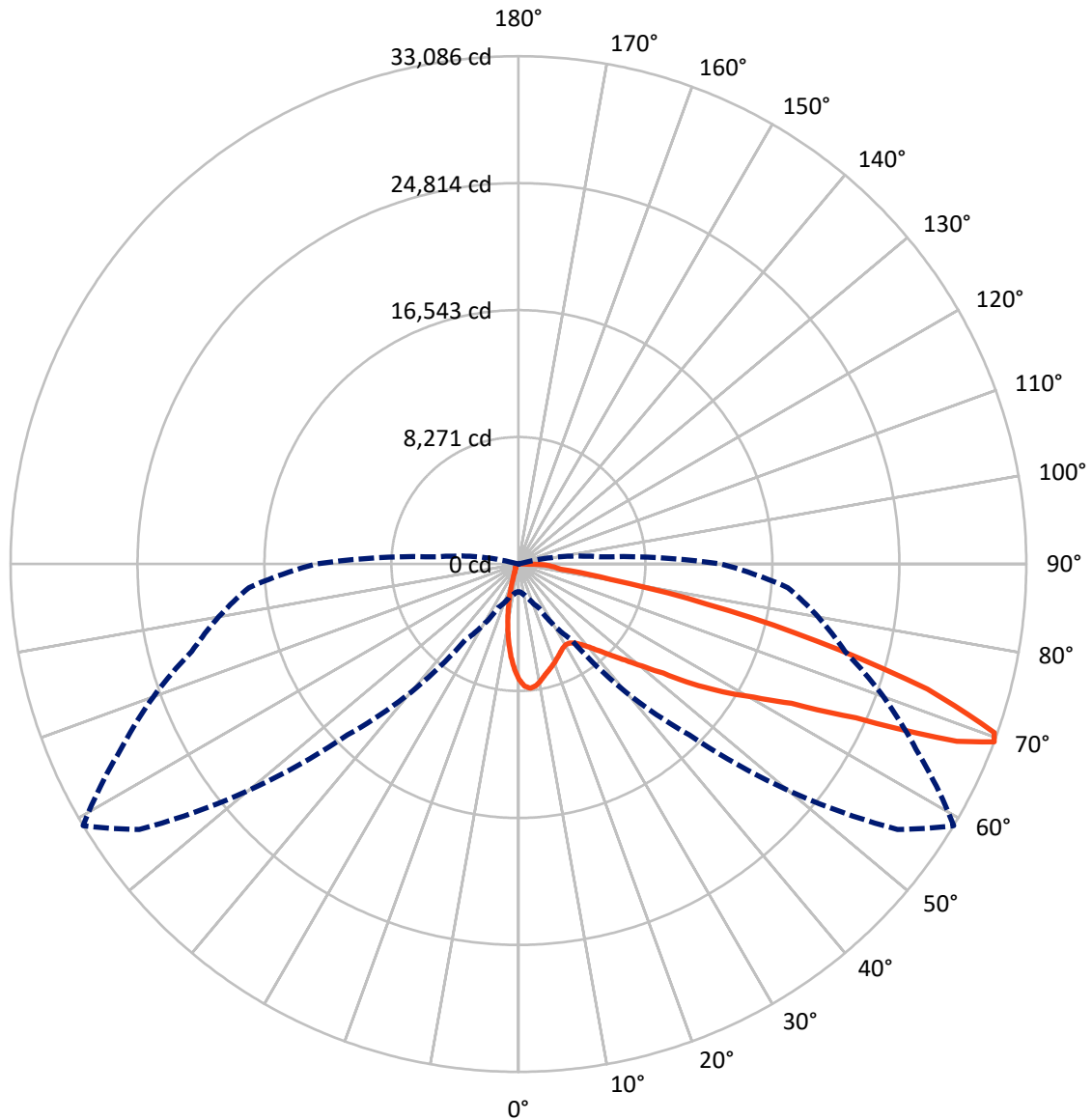


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type III - Short - Non-Cutoff

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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	2360.7	0.0	2360.7
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	26627.4	0.0	26627.4
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	28988.1	0.0	28988.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	612.4	2.1
10°-20°	1265.5	4.4
20°-30°	1702.9	5.9
30°-40°	2472.5	8.5
40°-50°	4116.8	14.2
50°-60°	6422.2	22.2
60°-70°	7947.0	27.4
70°-80°	4027.4	13.9
80°-90°	421.4	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°	28988.1	100.0
0°-180°	28988.1	100.0



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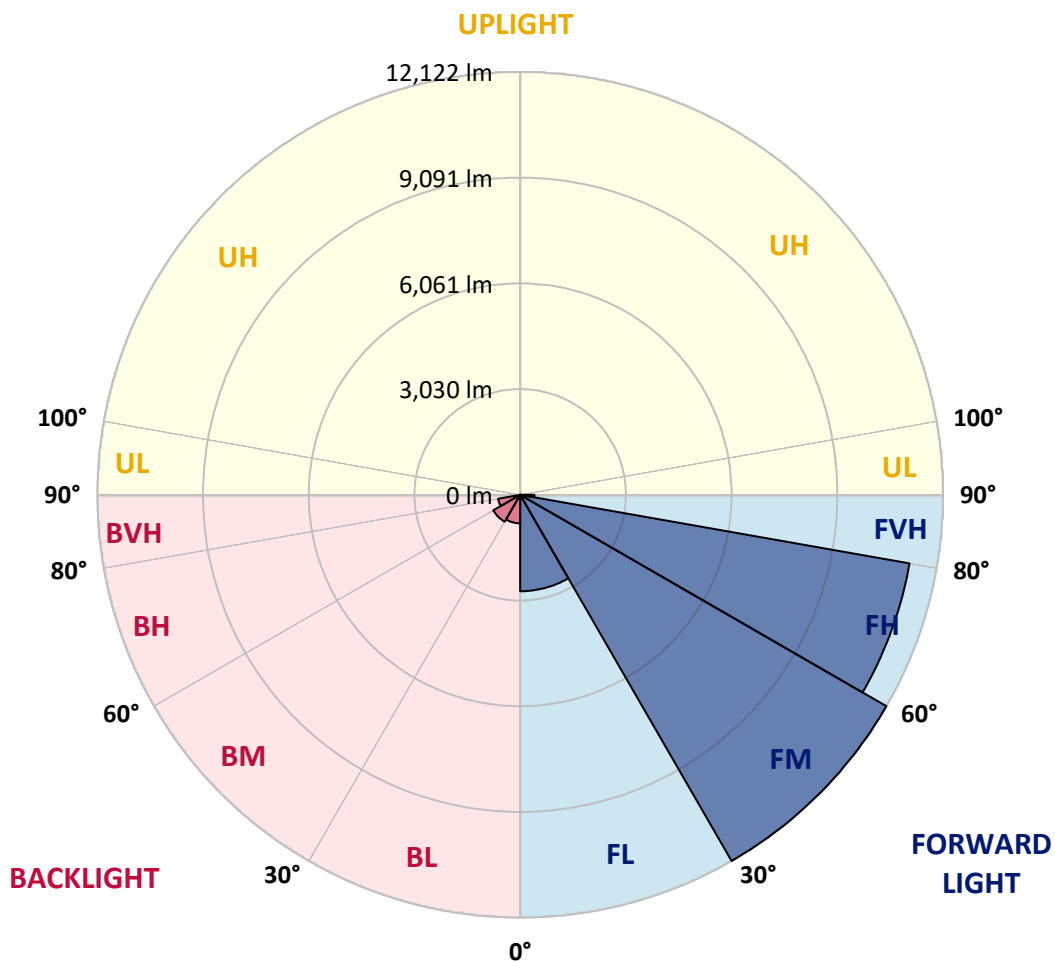
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2763.7	9.5			
FM (30°-60°)	12121.9	41.8			
FH (60°-80°)	11333.3	39.1			G4/12000
FVH (80°-90°)	408.4	1.4			G3/500
BL (0°-30°)	817.1	2.8	B2/1000		
BM (30°-60°)	889.5	3.1	B1/1000		
BH (60°-80°)	641.1	2.2	B2/1000		G2/1000
BVH (80°-90°)	13.0	0.0			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7545.3	7545.3	7545.3	7545.3	7545.3	7545.3	7545.3	7545.3	7545.3	7545.3	7545.3
2.5°	8269.6	8266.5	8230.5	8214.0	8184.5	8122.1	8025.5	7974.7	7892.7	7750.0	7558.2
5°	8194.2	8233.7	8255.0	8256.6	8277.9	8255.0	8168.1	8125.4	8012.3	7782.8	7438.7
7.5°	7682.8	7697.7	7758.3	7810.8	7912.5	8009.1	8040.2	8022.3	7955.0	7709.2	7251.7
10°	7135.3	7150.1	7222.3	7291.2	7428.9	7578.0	7735.3	7768.2	7796.0	7604.2	7071.5
12.5°	6663.3	6678.1	6751.8	6842.0	7002.6	7186.3	7430.4	7484.6	7607.4	7504.3	6927.2
15°	6256.8	6263.3	6335.4	6447.0	6638.7	6874.8	7151.8	7238.6	7427.1	7433.7	6801.0
17.5°	5910.8	5927.2	5971.6	6078.1	6288.0	6579.7	6902.7	7027.3	7248.6	7374.7	6678.1
20°	5699.4	5715.8	5714.2	5773.2	5961.7	6273.1	6653.4	6802.7	7071.5	7314.1	6568.2
22.5°	5658.5	5658.5	5615.8	5607.7	5719.1	5979.7	6394.5	6576.4	6912.5	7287.8	6491.2
25°	5804.4	5797.8	5691.2	5604.3	5609.2	5765.1	6143.7	6360.1	6778.0	7305.8	6450.2
27.5°	6112.5	6104.3	5970.0	5804.4	5671.5	5669.9	5953.5	6186.3	6671.5	7391.2	6466.5
30°	6538.8	6535.4	6389.6	6181.3	5940.4	5719.1	5888.0	6099.4	6602.6	7545.3	6504.3
32.5°	7004.3	6999.4	6889.6	6669.8	6365.0	5940.4	5956.8	6133.8	6622.3	7750.0	6596.2
35°	7497.7	7489.4	7441.9	7250.1	6914.2	6348.6	6183.0	6320.7	6746.9	8056.5	6776.5
37.5°	8032.0	8040.2	8074.7	7891.0	7538.7	6920.6	6561.7	6655.2	6997.6	8473.0	7069.8
40°	8820.5	8818.8	8830.2	8589.4	8250.0	7620.6	7091.1	7120.7	7417.3	9025.5	7515.7
42.5°	10251.5	10151.4	9848.3	9356.4	9015.5	8420.5	7758.3	7727.1	7930.3	9708.9	8140.3
45°	12174.3	11961.1	11174.3	10231.9	9795.7	9322.2	8579.5	8479.6	8609.0	10530.1	8910.6
47.5°	13828.1	13606.8	12493.8	11143.2	10623.5	10177.7	9541.7	9361.3	9404.0	11449.7	9887.6
50°	14390.5	14282.2	13310.2	11936.6	11425.2	11254.7	10658.0	10438.3	10377.7	12513.6	11020.2
52.5°	14195.3	14187.2	13539.8	12451.2	12159.5	12369.3	12062.8	11808.7	11585.8	13634.7	12172.7
55°	13882.2	13923.3	13633.1	12902.0	12892.2	13387.4	13983.9	13772.5	13126.7	14852.7	13166.0
57.5°	13018.4	13193.9	13580.7	13754.5	14157.6	14664.2	15583.7	15708.3	14944.6	15785.3	13990.6
60°	10562.9	10948.2	12213.5	13877.3	15788.7	17050.9	17514.8	17621.3	16436.2	16560.8	15103.6
62.5°	7497.7	7891.0	9495.9	12310.4	15813.3	20186.6	20391.5	19973.5	18078.6	17709.8	17023.1
65°	3979.9	4283.2	5594.6	8886.0	13710.2	20914.3	25422.3	24176.4	20976.7	19970.2	19503.1
67.5°	2035.9	2127.6	2648.9	4348.8	9425.3	18576.9	29931.6	30808.6	25971.3	22212.7	19383.4
69°	1801.6	1855.5	2201.4	3144.0	6035.5	15734.6	30151.3	33085.5	28585.9	22025.8	17614.8
70°	1744.1	1791.6	2106.3	2845.7	4717.5	13195.5	29310.3	32885.4	29254.7	21314.4	16293.5
72.5°	1480.1	1521.2	1875.2	2514.5	3834.1	6550.3	23809.2	27866.2	26251.6	17755.7	11793.9
75°	990.1	1124.5	1799.8	2357.2	3566.9	3721.0	15696.9	20137.5	18706.5	11975.9	6143.7
77.5°	237.7	255.7	508.1	1875.2	3261.9	3275.1	8073.0	12518.5	10210.6	4268.4	1452.3
80°	127.9	123.0	142.7	372.1	3037.3	3073.6	3634.2	6076.5	3645.5	708.1	478.6
82.5°	90.2	85.2	91.7	155.8	955.6	2799.7	2629.2	2750.6	1511.3	272.0	214.8
85°	32.8	31.1	50.8	140.9	299.9	1609.8	2701.5	2268.6	1224.5	124.5	157.4
87.5°	11.5	9.8	19.7	77.1	91.7	685.1	1667.1	1714.5	481.9	75.4	73.8
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°	7545.3	7545.3	7545.3	7545.3	7545.3	7545.3	7545.3	7545.3	7545.3	7545.3	7545.3
2.5°	7478.0	7376.3	7189.5	6997.6	6820.7	6607.6	6501.0	6396.1	6351.8	6335.4	6258.4
5°	7261.5	7089.6	6692.8	6294.6	5927.2	5537.2	5279.8	5073.3	4951.9	4893.0	4799.6
7.5°	6984.6	6702.7	6101.1	5486.4	4914.3	4350.4	3932.4	3611.1	3389.8	3283.2	3186.6
10°	6715.8	6340.3	5484.7	4647.1	3870.1	3122.7	2545.6	2127.6	1860.5	1737.5	1658.9
12.5°	6474.9	5987.9	4889.7	3829.1	2853.8	1978.4	1391.7	1058.9	893.4	836.1	808.1
15°	6260.1	5663.5	4327.4	3052.3	1932.7	1131.1	760.5	647.5	621.3	621.3	617.9
17.5°	6056.8	5345.5	3784.9	2322.7	1213.0	691.8	578.7	563.9	563.9	570.5	570.5
20°	5861.7	5042.1	3260.4	1667.1	763.9	549.1	523.0	519.6	523.0	531.1	531.1
22.5°	5694.5	4766.8	2770.3	1144.1	567.2	495.1	481.9	477.0	478.6	483.6	486.8
25°	5570.0	4533.9	2307.9	775.3	488.5	450.8	436.0	427.9	421.2	421.2	424.5
27.5°	5491.2	4337.2	1860.5	563.9	439.4	409.7	386.8	373.8	359.1	350.8	354.0
30°	5433.8	4150.3	1440.8	460.7	393.4	364.0	334.3	313.1	291.8	282.0	285.2
32.5°	5412.6	3999.7	1077.0	406.6	352.4	319.6	283.5	255.7	232.8	224.5	226.3
35°	5470.0	3880.0	788.4	367.1	319.6	278.7	237.7	206.5	188.6	183.7	185.2
37.5°	5620.8	3816.0	590.0	334.3	290.2	244.2	198.3	168.8	157.4	157.4	159.0
40°	5905.9	3814.5	473.8	311.4	263.9	211.5	163.9	142.7	136.1	139.3	140.9
42.5°	6322.4	3901.2	413.1	290.2	240.9	180.3	136.1	121.4	119.7	123.0	124.5
45°	6891.2	4060.2	380.3	272.0	216.4	150.8	114.8	104.9	104.9	109.9	111.5
47.5°	7587.9	4293.0	352.4	254.1	191.8	126.2	98.4	91.7	93.5	98.4	100.0
50°	8427.1	4586.4	324.6	234.4	173.7	104.9	85.2	80.3	81.9	88.6	90.2
52.5°	9382.7	4981.6	301.7	216.4	150.8	86.9	72.1	68.8	72.1	78.7	80.3
55°	10202.3	5335.6	273.8	201.6	121.4	72.1	59.0	59.0	62.3	70.4	72.1
57.5°	10990.8	5706.0	249.2	173.7	95.1	57.4	49.1	50.8	55.8	63.9	65.5
60°	12148.0	6333.8	219.6	145.9	72.1	46.0	41.1	42.6	49.1	57.4	59.0
62.5°	14113.5	7289.4	190.1	121.4	55.8	36.0	32.8	36.0	44.2	54.1	55.8
65°	15887.1	7678.0	155.8	101.6	42.6	27.8	27.8	32.8	42.6	52.5	54.1
67.5°	14898.6	6463.3	121.4	80.3	32.8	21.3	22.9	31.1	41.1	52.5	54.1
69°	13175.8	5284.8	103.2	63.9	27.8	19.7	21.3	31.1	41.1	50.8	52.5
70°	11833.4	4461.9	91.7	54.1	24.7	19.7	21.3	29.6	41.1	50.8	52.5
72.5°	7925.4	2409.7	73.8	39.3	22.9	18.1	18.1	29.6	39.3	49.1	50.8
75°	3406.3	665.6	59.0	27.8	19.7	16.3	16.3	27.8	37.6	47.5	50.8
77.5°	622.9	168.8	47.5	24.7	19.7	16.3	14.7	26.2	36.0	46.0	47.5
80°	247.6	83.6	37.6	21.3	18.1	14.7	13.1	24.7	34.5	44.2	46.0
82.5°	149.2	47.5	31.1	19.7	18.1	13.1	11.5	21.3	32.8	42.6	44.2
85°	121.4	32.8	24.7	19.7	16.3	13.1	9.8	19.7	29.6	41.1	42.6
87.5°	59.0	22.9	22.9	18.1	16.3	13.1	9.8	18.1	27.8	39.3	41.1
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)