

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: P269388

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269388  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
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-SL2-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24481.1 lumens  
Efficiency: N/A  
Efficacy: 98.3 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): 249  
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

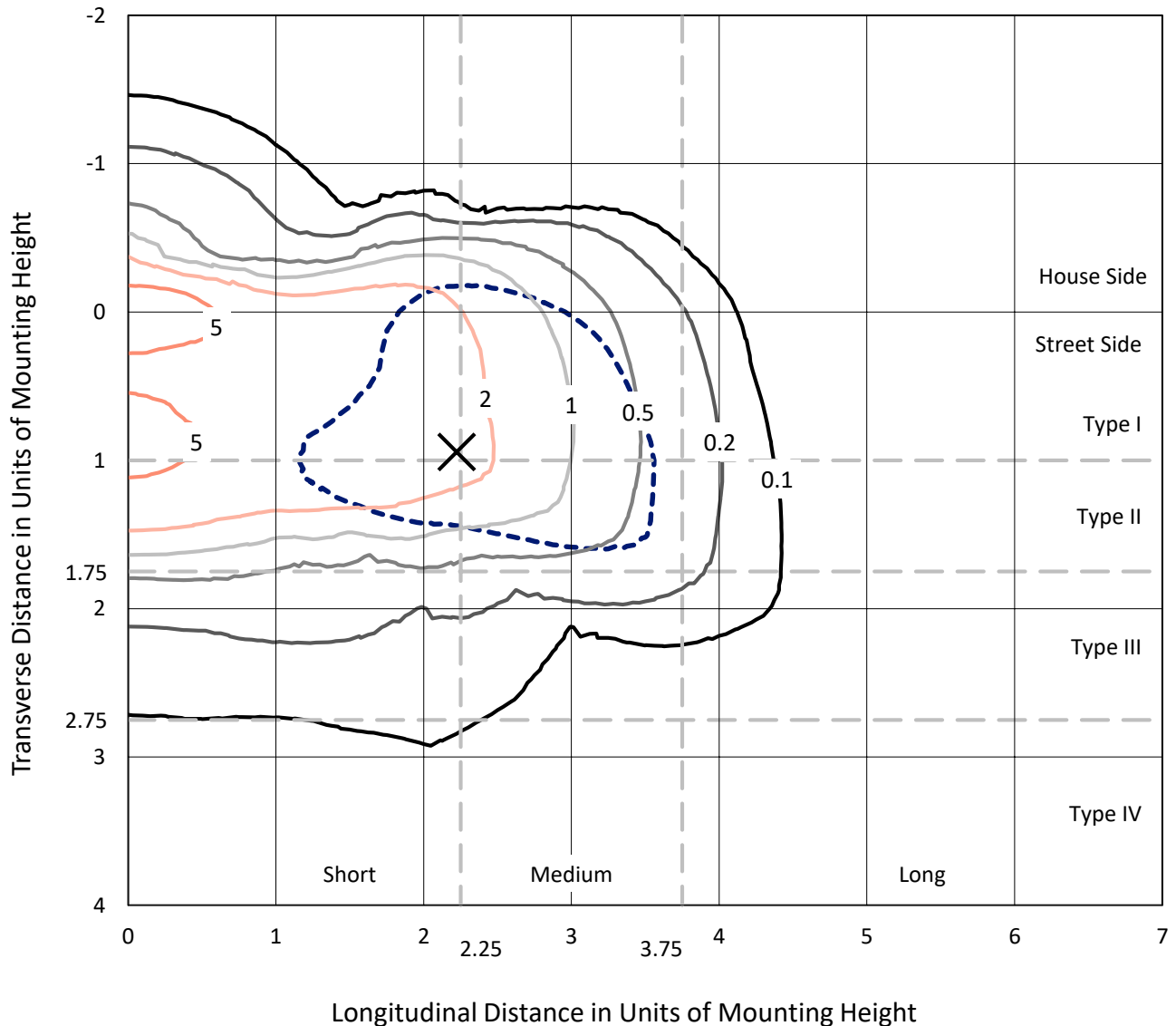


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### Iso-Footcandle Lines of Horizontal Illumination

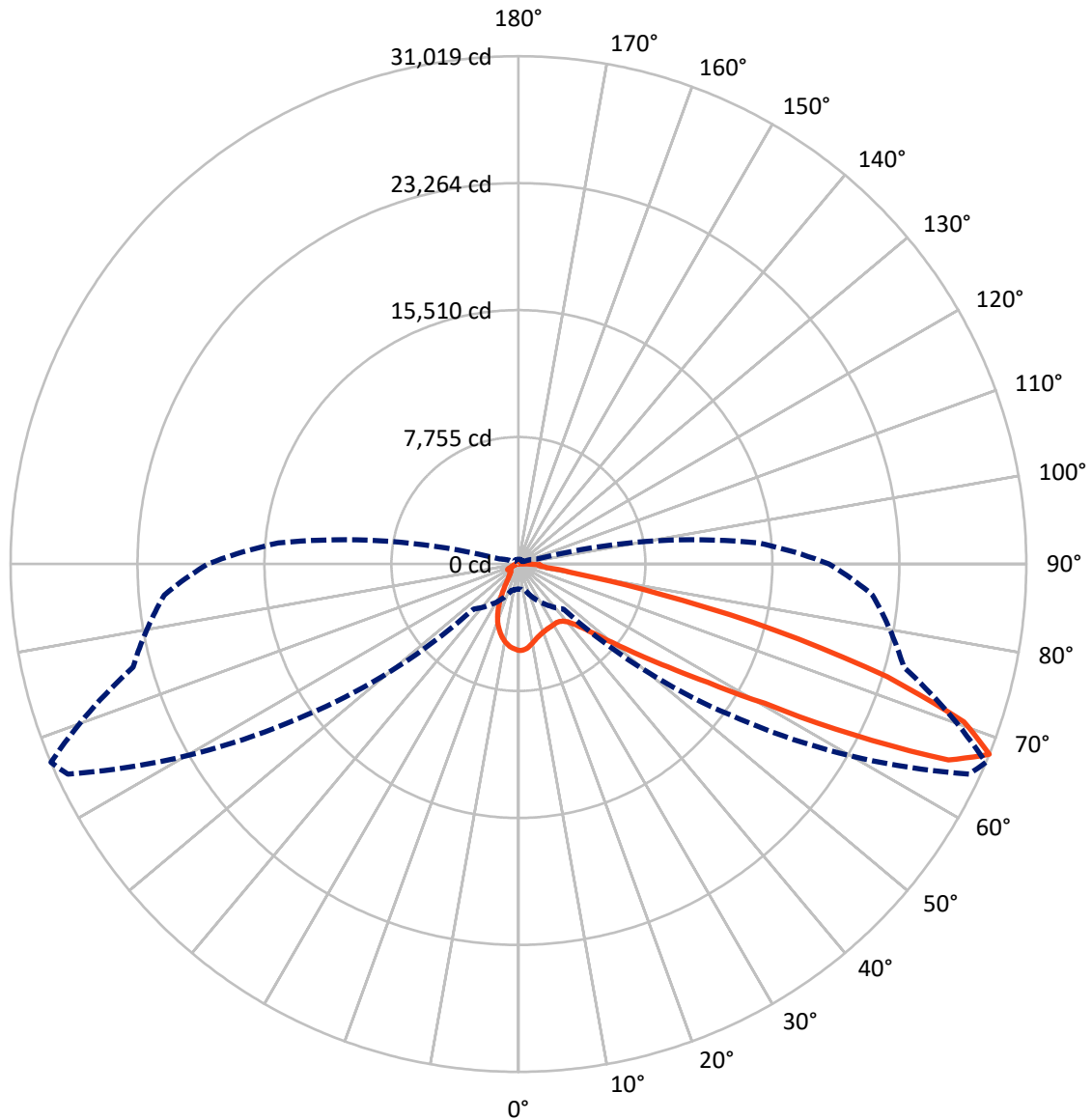
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4056.2	0.0	4056.2
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	20424.8	0.0	20424.8
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	24481.1	0.0	24481.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.5	1.8
10°-20°	1042.4	4.3
20°-30°	1413.0	5.8
30°-40°	2008.7	8.2
40°-50°	3360.7	13.7
50°-60°	5316.5	21.7
60°-70°	6772.7	27.7
70°-80°	3547.6	14.5
80°-90°	569.0	2.3
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°	24481.1	100.0
0°-180°	24481.1	100.0



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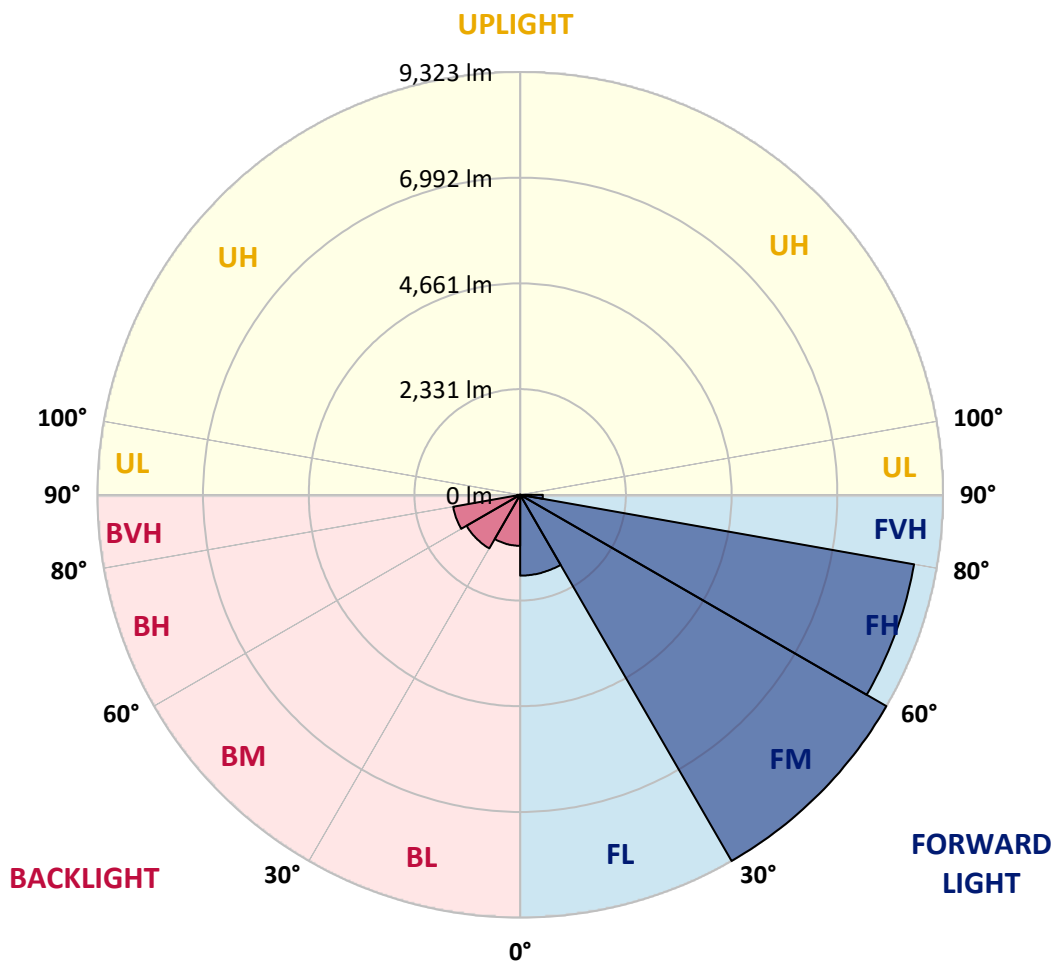
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1781.6	7.3			
FM (30°-60°)	9322.9	38.1			
FH (60°-80°)	8820.0	36.0			G4/12000
FVH (80°-90°)	500.3	2.0			G4/750
BL (0°-30°)	1124.3	4.6	B3/2500		
BM (30°-60°)	1363.0	5.6	B2/2500		
BH (60°-80°)	1500.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	68.7	0.3			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°	5280.4	5280.4	5280.4	5280.4	5280.4	5280.4	5280.4	5280.4	5280.4	5280.4	5280.4
2.5°	5063.1	5071.7	5098.2	5115.0	5191.1	5223.7	5246.7	5269.6	5273.3	5284.1	5273.3
5°	4531.9	4550.2	4599.6	4655.1	4802.5	4918.3	5040.3	5167.1	5190.0	5272.1	5295.0
7.5°	4120.3	4115.6	4156.5	4222.9	4373.8	4534.5	4748.1	5000.4	5049.9	5234.7	5324.0
10°	3819.8	3816.1	3859.6	3928.4	4072.0	4224.2	4465.7	4811.0	4880.9	5175.4	5351.7
12.5°	3597.6	3598.8	3642.3	3718.4	3864.4	4017.7	4262.7	4627.3	4716.7	5106.7	5380.7
15°	3450.3	3460.0	3494.9	3575.9	3718.4	3871.6	4111.9	4489.8	4590.0	5052.3	5413.2
17.5°	3400.9	3416.6	3428.7	3487.8	3609.7	3763.0	3998.4	4388.4	4494.6	5014.9	5442.3
20°	3446.6	3464.9	3441.9	3462.3	3539.6	3674.8	3909.1	4308.7	4417.3	4972.7	5446.0
22.5°	3643.4	3660.4	3592.9	3533.7	3528.8	3610.8	3835.5	4245.8	4358.1	4941.2	5447.1
25°	3989.9	4000.8	3887.3	3749.7	3615.7	3587.9	3783.5	4202.5	4321.9	4913.5	5424.1
27.5°	4414.9	4423.3	4293.0	4090.2	3820.9	3642.3	3765.4	4177.1	4301.4	4889.4	5385.6
30°	4931.6	4971.5	4796.4	4540.5	4148.2	3802.9	3801.6	4163.9	4278.4	4848.3	5309.5
32.5°	5460.3	5477.2	5356.6	5097.1	4588.7	4085.3	3903.0	4173.4	4272.5	4798.8	5213.0
35°	5996.5	6018.1	5939.7	5730.7	5191.1	4499.4	4101.0	4230.2	4309.9	4781.9	5145.3
37.5°	6690.5	6719.5	6610.8	6369.4	5924.0	5060.8	4430.6	4372.7	4424.6	4830.1	5124.8
40°	7787.9	7774.7	7457.2	7097.4	6725.6	5779.1	4901.4	4614.1	4644.2	4986.0	5187.5
42.5°	9065.2	9032.6	8485.7	7920.7	7606.8	6648.4	5524.3	5033.1	5026.9	5292.5	5408.4
45°	10084.2	10057.7	9565.1	8868.4	8617.4	7638.3	6329.5	5657.2	5612.5	5779.1	5816.5
47.5°	10635.8	10637.1	10353.3	9784.8	9778.7	8896.3	7364.2	6560.2	6483.0	6561.4	6521.5
50°	10442.6	10468.0	10437.9	10256.8	10838.7	10545.4	8715.1	7819.3	7663.6	7740.9	7587.5
52.5°	9508.3	9540.9	9719.7	9997.2	11284.1	12538.5	10699.8	9384.0	9202.9	9175.1	9004.9
55°	7851.9	7891.8	8256.4	9010.9	10913.6	13877.3	13831.5	11378.3	11089.8	10827.8	10755.3
57.5°	5412.1	5478.6	6065.3	7185.5	9714.7	14281.8	17560.6	14221.3	13634.7	12719.6	12736.4
60°	3050.7	3128.0	3819.8	4837.5	7295.5	13842.3	20397.8	18527.6	17289.0	14935.0	15060.4
62.5°	1940.1	2023.3	2548.5	3361.0	4377.5	11476.0	21560.3	24514.4	22941.4	17665.7	17788.9
65°	1570.6	1606.9	1854.3	2774.2	3178.7	6914.0	20677.7	29446.0	28859.3	21131.6	20557.1
67.5°	1533.1	1545.3	1673.3	2328.8	3048.3	3886.2	16493.4	30368.5	31019.1	24368.3	21710.0
70°	1515.1	1557.3	1885.7	2222.5	2919.1	3277.6	9911.4	27840.5	28867.8	25214.6	20175.6
72.5°	735.3	732.7	948.9	2010.0	3288.5	3399.6	5092.2	22526.1	23557.1	21845.3	16579.2
75°	592.7	542.0	518.0	736.4	3161.8	3510.7	3245.0	15499.8	16245.9	14646.3	10191.6
77.5°	562.6	502.2	459.9	461.2	1336.4	3723.1	2749.0	8578.8	8796.1	6615.7	2792.4
80°	466.0	410.4	380.3	428.6	647.0	3545.7	2972.2	3882.6	3562.6	1624.9	929.6
82.5°	323.5	294.6	286.1	359.7	518.0	2526.8	3456.4	2086.1	1749.3	813.7	573.5
85°	206.4	176.2	195.7	261.9	403.2	1166.2	3560.3	1626.1	1293.0	516.7	323.5
87.5°	95.4	77.3	96.6	144.8	263.2	402.0	3387.6	1826.6	1331.6	272.8	204.1
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°	5280.4	5280.4	5280.4	5280.4	5280.4	5280.4	5280.4	5280.4	5280.4	5280.4	5280.4
2.5°	5282.9	5259.9	5241.9	5208.1	5170.6	5134.4	5101.8	5060.8	5048.7	5037.9	5054.8
5°	5299.8	5277.0	5210.4	5106.7	4992.1	4884.5	4777.0	4685.3	4628.5	4597.2	4615.3
7.5°	5325.2	5292.5	5155.0	4964.3	4757.8	4569.5	4375.0	4219.2	4104.6	4050.3	4066.0
10°	5348.1	5285.4	5060.8	4774.8	4472.9	4192.7	3886.2	3632.7	3444.3	3345.3	3369.5
12.5°	5357.9	5257.6	4929.2	4538.1	4123.9	3713.6	3261.9	2882.9	2612.5	2513.5	2492.9
15°	5367.5	5226.2	4784.4	4268.8	3702.6	3122.0	2489.4	2035.4	1810.9	1761.3	1750.4
17.5°	5369.9	5171.8	4620.2	3976.6	3208.8	2418.1	1702.2	1413.8	1414.9	1494.6	1504.2
20°	5344.5	5091.0	4421.0	3613.3	2617.3	1672.0	1168.7	1119.1	1301.5	1500.6	1524.8
22.5°	5286.5	4983.5	4195.2	3189.5	1940.1	1101.1	904.2	958.5	1193.9	1437.8	1465.7
25°	5213.0	4853.2	3928.4	2698.1	1284.5	787.2	758.2	824.6	984.0	1146.9	1162.5
27.5°	5112.8	4698.7	3629.1	2135.6	834.2	648.2	667.6	712.3	777.5	849.8	857.2
30°	4983.5	4514.0	3309.0	1557.3	630.3	583.1	610.8	635.0	662.8	703.8	707.4
32.5°	4835.0	4336.5	2980.7	1075.7	558.9	549.4	571.1	583.1	604.7	630.3	632.5
35°	4710.7	4167.4	2640.3	760.5	528.8	523.9	538.4	543.3	563.7	591.5	594.0
37.5°	4639.4	4029.7	2288.9	613.4	508.3	501.1	509.5	509.5	538.4	579.4	585.5
40°	4644.2	3953.7	1937.6	554.2	491.4	481.8	482.8	482.8	520.3	565.0	568.5
42.5°	4775.8	3973.1	1626.1	531.2	478.1	467.2	461.2	464.9	496.1	525.1	527.6
45°	5084.9	4109.4	1334.1	516.7	464.9	461.2	447.9	446.6	458.8	472.0	472.0
47.5°	5591.9	4378.7	1136.0	507.1	454.0	452.7	437.0	421.3	420.0	425.0	425.0
50°	6416.6	4842.3	1003.2	496.1	446.6	437.0	418.9	394.7	386.4	390.0	390.0
52.5°	7652.8	5669.3	952.6	481.8	430.9	415.2	394.7	370.6	363.4	364.6	364.6
55°	9274.1	6939.2	945.2	464.9	414.1	388.7	371.8	353.8	345.3	347.6	347.6
57.5°	11255.3	8695.9	1074.5	438.3	391.1	362.1	352.6	340.5	334.3	338.0	336.9
60°	13663.7	10994.4	1593.6	410.4	368.2	338.0	338.0	328.4	323.5	327.2	325.9
62.5°	16437.9	13634.7	2240.6	390.0	344.1	318.7	323.5	318.7	313.9	316.4	315.0
65°	18898.4	15355.0	2098.3	374.2	319.9	300.7	309.0	306.6	303.0	305.5	304.3
67.5°	18969.5	14717.7	1178.2	357.3	297.0	282.4	294.6	293.3	291.0	293.3	292.2
70°	16929.3	12427.4	663.9	325.9	272.8	260.8	277.7	276.5	274.1	278.8	277.7
72.5°	13563.5	9018.2	485.4	287.3	248.7	237.8	257.2	255.9	255.9	263.2	259.6
75°	7804.8	4640.6	387.4	246.2	223.4	214.9	231.9	233.0	235.4	245.1	237.8
77.5°	2224.9	1446.4	316.4	208.9	192.0	188.4	205.3	207.7	208.9	219.7	210.1
80°	827.0	666.5	260.8	175.1	156.9	158.1	173.8	177.4	178.7	189.5	177.4
82.5°	527.6	439.5	211.3	135.3	123.2	121.9	141.3	146.1	146.1	147.3	140.0
85°	307.8	263.2	159.4	97.7	87.0	83.4	105.0	113.5	109.9	107.4	102.6
87.5°	206.4	181.1	97.7	54.3	47.2	44.6	61.5	67.6	65.1	61.5	57.9
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)