

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: P269396

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269396  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
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-SL3-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24992.4 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-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

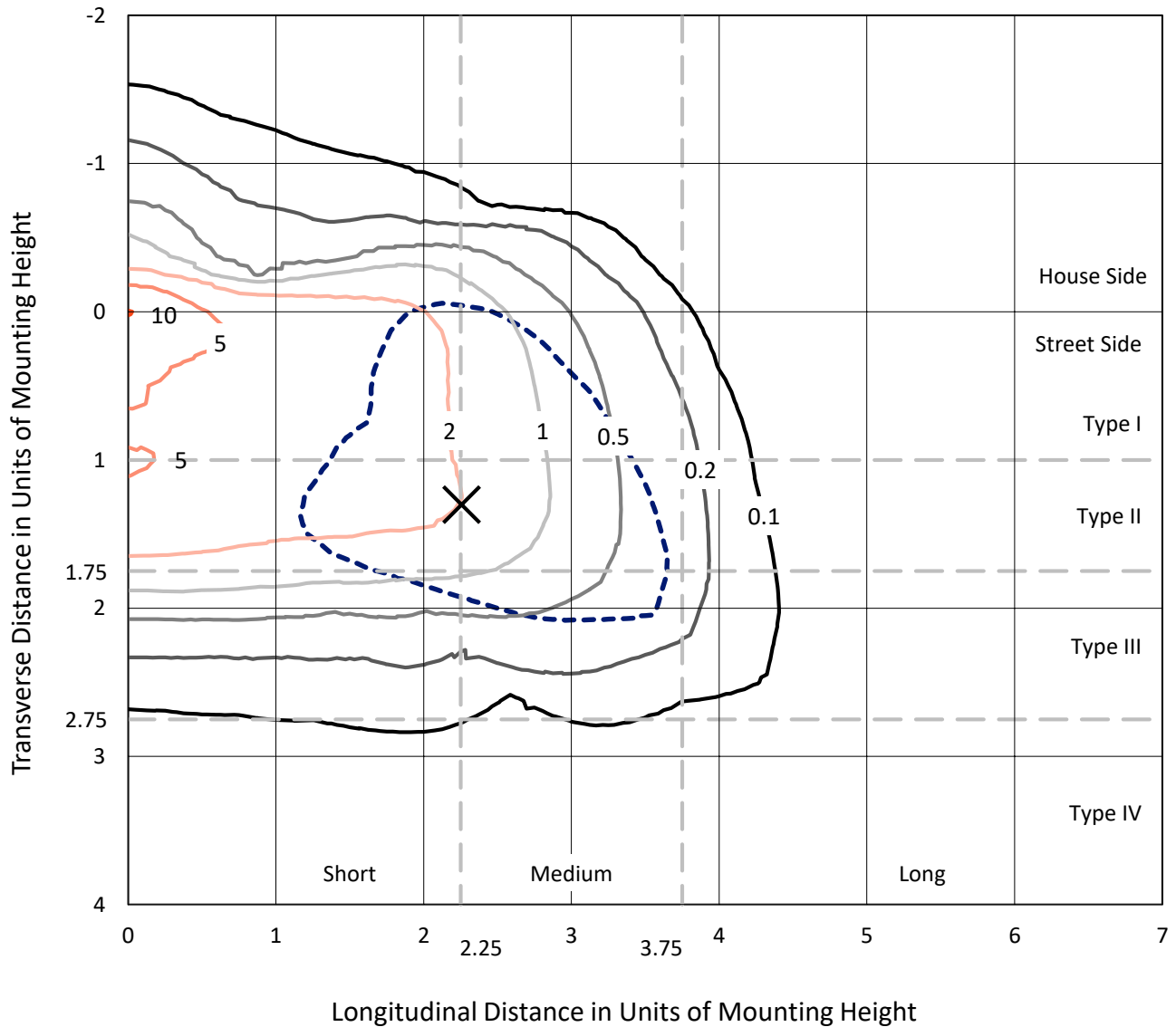


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### Iso-Footcandle Lines of Horizontal Illumination

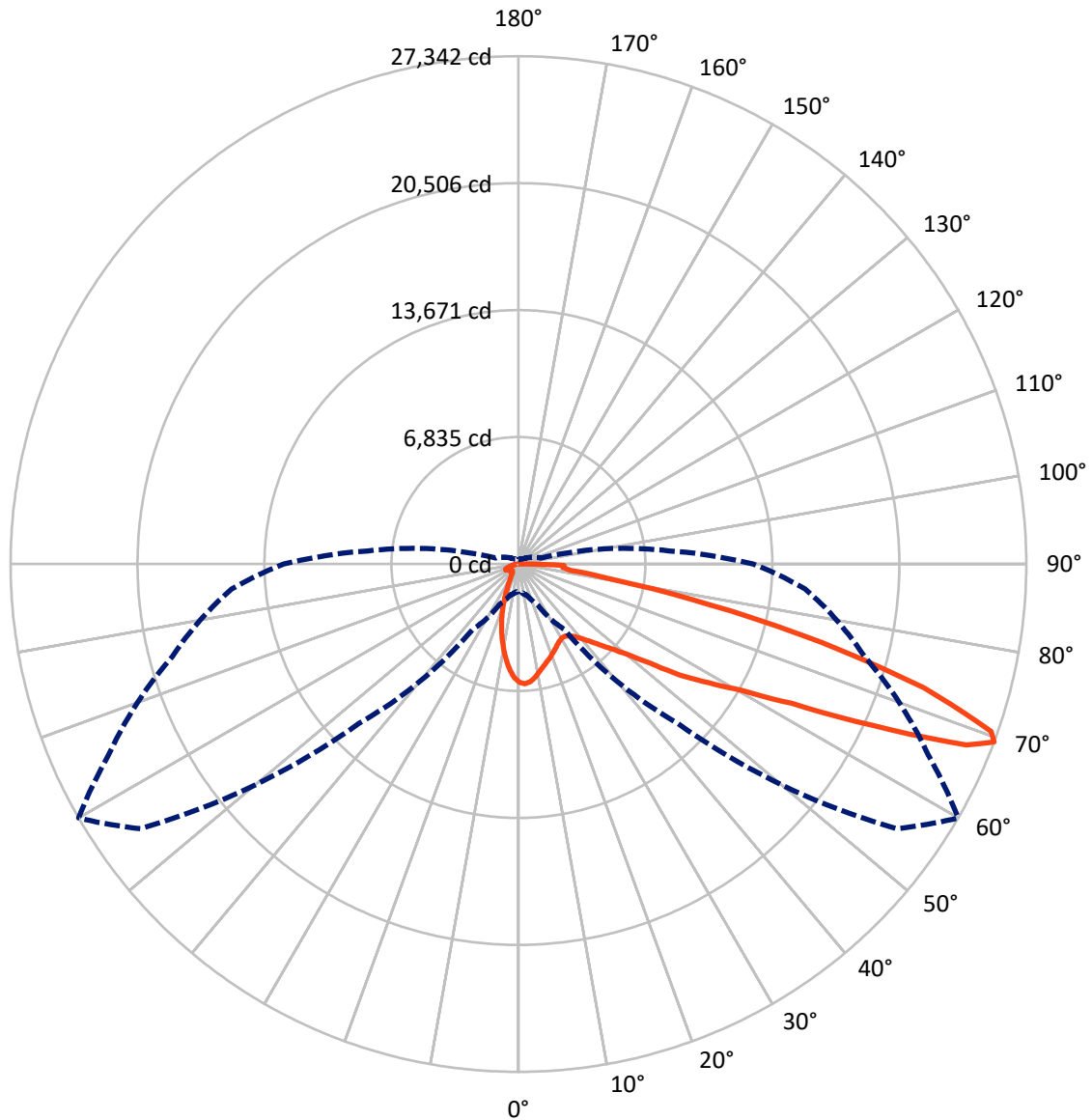
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3555.6	0.0	3555.6
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	21436.8	0.0	21436.8
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	24992.4	0.0	24992.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	538.5	2.2
10°-20°	1147.3	4.6
20°-30°	1461.8	5.8
30°-40°	2009.6	8.0
40°-50°	3260.8	13.0
50°-60°	5229.5	20.9
60°-70°	6960.0	27.8
70°-80°	3757.9	15.0
80°-90°	627.0	2.5
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°	24992.4	100.0
0°-180°	24992.4	100.0

**Coefficient of Utilization**



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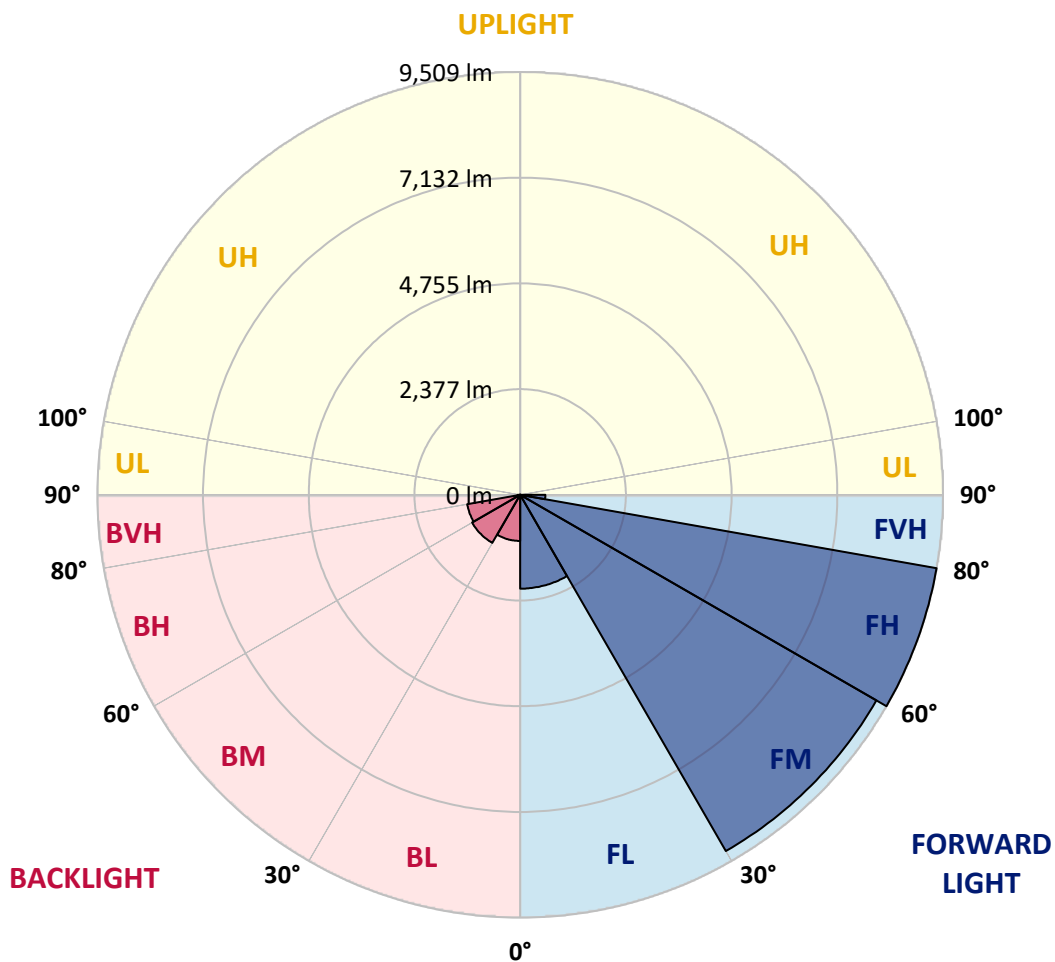
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2110.3	8.4			
FM	(30°-60°)	9250.7	37.0			
FH	(60°-80°)	9509.1	38.0			G4/12000
FVH	(80°-90°)	566.6	2.3			G4/750
BL	(0°-30°)	1037.3	4.2	B3/2500		
BM	(30°-60°)	1249.2	5.0	B2/2500		
BH	(60°-80°)	1208.8	4.8	B3/2500		G3/2500
BVH	(80°-90°)	60.4	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4
2.5°	6498.9	6513.3	6507.3	6503.6	6514.6	6497.6	6462.6	6451.7	6434.9	6395.0	6327.4
5°	6255.0	6298.5	6296.0	6328.6	6382.9	6397.4	6381.6	6384.2	6352.8	6303.2	6190.9
7.5°	5833.7	5851.6	5861.4	5932.6	6031.6	6111.3	6178.9	6200.6	6186.2	6143.9	5999.1
10°	5399.1	5413.5	5436.5	5519.7	5645.3	5755.1	5883.1	5956.8	5988.1	5980.9	5819.1
12.5°	5025.9	5040.4	5070.7	5164.7	5314.6	5449.7	5635.6	5727.4	5802.2	5846.9	5673.1
15°	4691.5	4722.8	4751.9	4860.5	5028.4	5205.9	5415.9	5531.9	5647.7	5748.0	5543.9
17.5°	4430.8	4462.2	4479.0	4578.0	4756.7	4974.1	5220.3	5356.8	5501.6	5665.8	5415.9
20°	4279.9	4294.3	4287.2	4342.6	4503.3	4733.8	5025.9	5184.1	5359.2	5588.5	5288.0
22.5°	4237.6	4238.8	4212.2	4206.3	4310.0	4504.5	4818.2	5010.2	5225.1	5537.8	5178.1
25°	4340.3	4336.6	4264.2	4205.0	4215.8	4329.3	4617.8	4841.2	5112.9	5527.0	5093.6
27.5°	4568.4	4579.3	4471.9	4360.7	4250.9	4247.2	4465.7	4701.2	5021.2	5576.5	5057.4
30°	4888.2	4906.5	4791.6	4650.4	4444.1	4273.7	4406.6	4617.8	4964.4	5679.1	5051.3
32.5°	5238.5	5257.8	5170.9	5022.3	4751.9	4437.9	4447.7	4625.2	4962.0	5822.8	5092.3
35°	5611.5	5633.2	5588.5	5463.0	5162.4	4741.1	4604.6	4742.2	5040.4	6042.4	5202.3
37.5°	6027.9	6061.9	6073.9	5954.3	5633.2	5140.6	4861.7	4964.4	5218.0	6348.0	5403.8
40°	6628.1	6675.1	6671.5	6500.0	6172.9	5680.3	5258.9	5285.4	5494.4	6756.1	5726.2
42.5°	7777.3	7787.0	7486.5	7113.4	6766.8	6247.7	5727.4	5705.7	5875.9	7272.7	6200.6
45°	9239.3	9199.5	8530.8	7810.0	7387.4	6899.6	6337.1	6230.9	6360.0	7902.8	6794.6
47.5°	10452.7	10361.1	9515.8	8521.1	8044.1	7608.4	7053.0	6867.1	6938.2	8617.6	7562.6
50°	10874.1	10805.3	10105.0	9112.6	8665.9	8472.8	7934.3	7671.2	7690.4	9470.0	8461.9
52.5°	10783.6	10773.8	10306.7	9502.6	9247.8	9380.6	9182.7	8826.4	8638.1	10416.4	9432.6
55°	10569.8	10590.4	10421.3	9956.5	9913.1	10257.1	10813.6	10550.6	9965.0	11371.5	10435.8
57.5°	9827.4	9880.5	10252.3	10527.5	10983.9	11495.8	12127.2	12052.4	11393.3	12403.6	11628.6
60°	7917.4	8040.5	9037.8	10416.4	12086.2	13687.0	13969.5	13795.7	12866.1	13684.6	13204.1
62.5°	5547.6	5675.5	6861.1	9018.4	11905.1	16161.9	17263.1	16513.4	14981.3	15571.6	15243.2
65°	2969.9	3031.5	3937.0	6257.4	10050.6	16672.7	22076.4	20935.5	18330.3	17898.1	16987.8
67.5°	1638.2	1672.0	2018.6	3159.5	6437.3	14681.9	25143.0	26005.0	22515.9	19447.0	16670.2
69°	1481.3	1512.7	1739.7	2392.8	4307.6	12139.2	24843.6	27341.5	24351.1	19293.6	15496.8
70°	1448.7	1477.7	1681.7	2205.7	3486.6	10006.0	23840.4	26999.8	24788.1	18744.5	14473.0
72.5°	1303.9	1335.3	1533.2	1981.1	2979.6	4988.5	18884.3	22828.6	22505.1	16252.6	10977.8
75°	1215.8	1244.7	1580.4	1940.1	2852.8	3157.1	12449.6	16824.7	16543.5	11369.0	5919.3
77.5°	520.4	518.0	732.8	1641.9	2895.1	3056.8	6689.6	10510.7	9589.4	4859.3	1699.9
80°	347.7	341.6	347.7	482.8	2654.9	3073.8	3504.7	5335.0	4029.9	1238.8	837.8
82.5°	299.4	294.6	305.5	294.6	933.2	3508.4	2979.6	2837.1	1915.9	703.8	415.2
85°	201.6	193.1	263.3	264.5	440.7	3117.2	3356.2	2396.5	1550.1	417.7	205.3
87.5°	96.6	94.1	153.3	187.1	258.4	1266.4	3765.5	2455.6	1563.4	213.6	97.7
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°	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4
2.5°	6306.9	6257.4	6209.1	6151.1	6090.8	6023.1	5989.4	5955.6	5947.0	5937.4	5903.7
5°	6133.1	6063.0	5942.3	5809.5	5669.5	5533.0	5429.1	5364.0	5314.6	5289.1	5244.5
7.5°	5908.5	5805.8	5594.6	5365.1	5129.9	4914.8	4728.9	4611.9	4500.8	4448.9	4389.7
10°	5694.7	5541.5	5213.0	4875.0	4537.0	4212.2	3906.8	3690.6	3498.7	3391.3	3315.3
12.5°	5511.3	5301.2	4846.0	4388.5	3925.0	3462.4	3004.9	2645.1	2344.5	2186.5	2105.4
15°	5332.6	5079.0	4497.2	3916.4	3321.3	2692.3	2091.1	1683.0	1434.2	1335.3	1301.5
17.5°	5170.9	4846.0	4147.0	3440.8	2698.2	1937.7	1405.3	1180.7	1085.3	1052.8	1041.9
20°	4995.7	4610.6	3783.7	2943.3	2048.8	1354.6	1097.4	998.5	959.7	950.1	945.2
22.5°	4826.8	4378.9	3435.9	2411.0	1471.8	1045.4	943.0	901.9	895.8	904.2	904.2
25°	4683.0	4171.2	3060.4	1854.5	1080.5	880.1	843.9	834.3	857.2	888.6	894.6
27.5°	4575.6	4001.0	2660.9	1369.0	860.8	765.4	764.2	779.9	836.6	897.0	909.1
30°	4501.9	3839.1	2233.5	987.5	722.0	673.6	693.0	726.8	810.1	895.8	918.7
32.5°	4464.5	3719.6	1787.9	764.2	618.2	591.5	624.1	665.3	747.3	827.0	857.2
35°	4493.5	3631.5	1367.8	637.4	545.7	525.1	558.9	598.8	647.0	680.9	703.8
37.5°	4602.1	3596.5	1032.2	571.1	496.3	476.9	503.4	526.3	545.7	555.3	566.2
40°	4836.5	3634.0	827.0	537.2	468.5	444.3	455.1	463.5	475.7	485.4	490.1
42.5°	5181.8	3746.2	741.3	523.9	454.0	418.9	416.5	420.1	435.9	454.0	457.5
45°	5664.6	3944.2	735.3	532.4	446.6	398.4	387.6	392.4	416.5	444.3	449.2
47.5°	6281.5	4246.1	783.5	557.8	452.7	387.6	369.5	375.5	405.7	443.0	449.2
50°	7028.9	4667.4	864.3	595.1	479.2	390.0	363.5	367.0	398.4	439.5	445.5
52.5°	7911.4	5265.0	952.6	631.4	507.1	405.7	368.2	359.9	388.7	425.0	432.3
55°	8893.0	6031.6	1043.1	663.9	521.6	425.0	377.8	350.1	370.6	400.9	406.8
57.5°	10097.8	7103.6	1200.0	695.4	531.2	438.3	387.6	340.5	347.7	369.5	374.2
60°	11728.8	8620.0	1476.5	747.3	552.9	443.0	386.4	332.1	324.7	336.9	339.2
62.5°	13683.4	10266.8	1707.0	812.4	589.2	446.6	379.1	325.9	305.5	305.5	307.8
65°	14843.7	10707.4	1579.1	866.9	619.3	443.0	370.6	319.9	291.0	277.7	278.8
67.5°	13859.7	9416.8	1353.3	877.7	618.2	426.2	357.3	309.0	276.5	255.9	254.7
69°	12627.0	8125.1	1252.0	848.7	589.2	404.4	340.5	297.0	265.5	243.9	242.6
70°	11633.4	7336.6	1185.6	817.4	557.8	388.7	327.2	286.1	257.2	236.7	234.2
72.5°	8458.4	4807.4	1012.8	702.7	460.0	325.9	282.4	251.2	229.3	217.3	215.0
75°	4226.7	2292.7	822.2	569.9	352.6	260.8	231.9	210.1	199.2	196.8	195.7
77.5°	1388.4	1050.4	587.9	425.0	261.9	204.1	187.1	171.4	169.1	176.2	173.8
80°	763.0	610.8	373.1	281.3	178.8	149.7	147.3	138.9	142.4	154.5	152.2
82.5°	388.7	317.6	230.5	169.1	120.7	107.4	117.0	112.3	117.0	128.0	126.8
85°	192.0	173.8	146.1	102.6	79.7	68.8	83.4	87.0	89.3	97.7	97.7
87.5°	111.1	102.6	77.3	48.2	39.9	36.2	48.2	47.2	55.5	60.4	59.2
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)