

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: P191175

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191175  
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-07-LED-E1-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1050mA 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: 43072.4 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G5

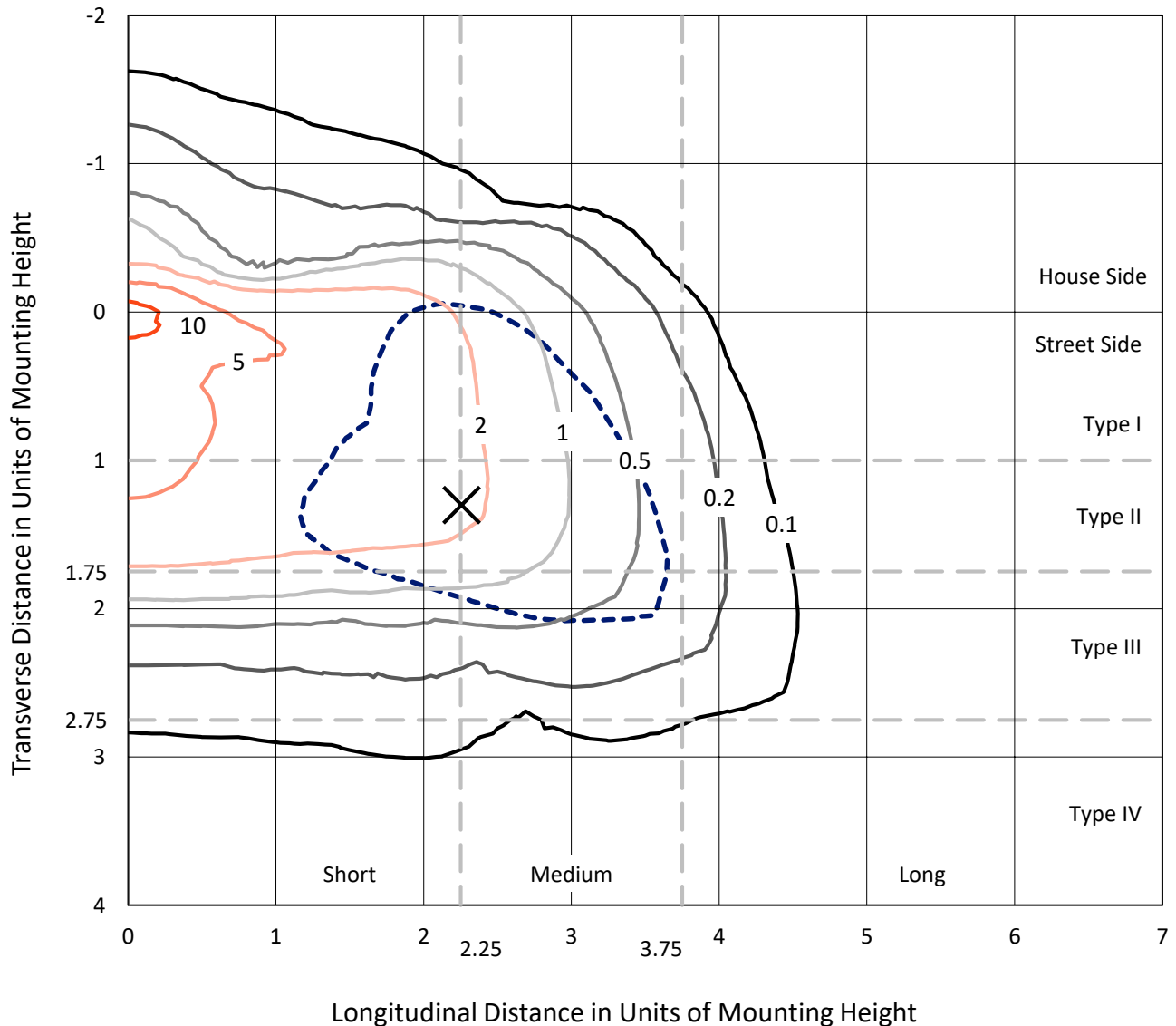
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

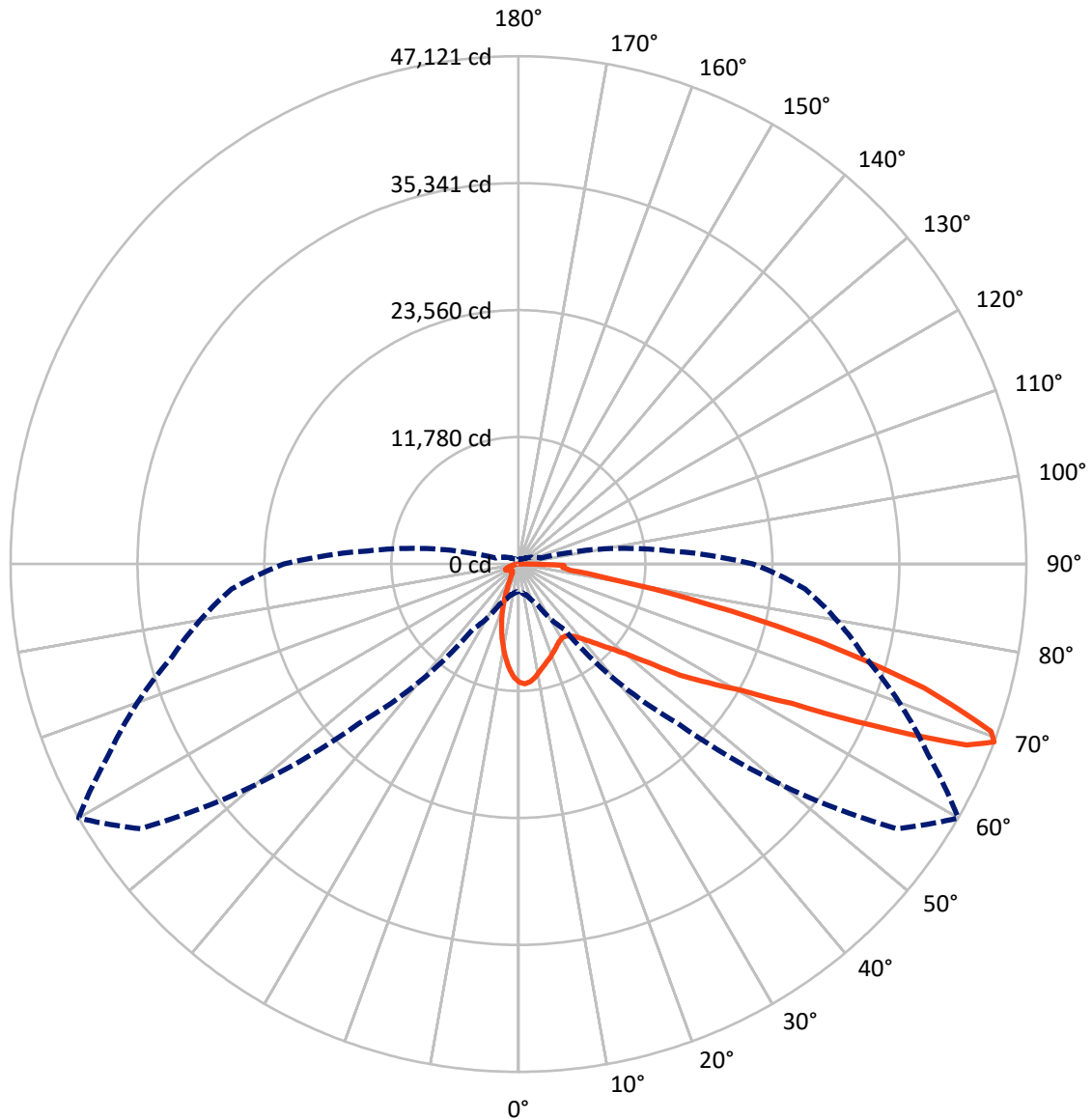
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 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	6127.8	0.0	6127.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	36944.5	0.0	36944.5
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	43072.4	0.0	43072.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	928.0	2.2
10°-20°	1977.2	4.6
20°-30°	2519.3	5.8
30°-40°	3463.4	8.0
40°-50°	5619.7	13.0
50°-60°	9012.6	20.9
60°-70°	11995.1	27.8
70°-80°	6476.4	15.0
80°-90°	1080.6	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°	43072.4	100.0
0°-180°	43072.4	100.0

**Coefficient of Utilization**



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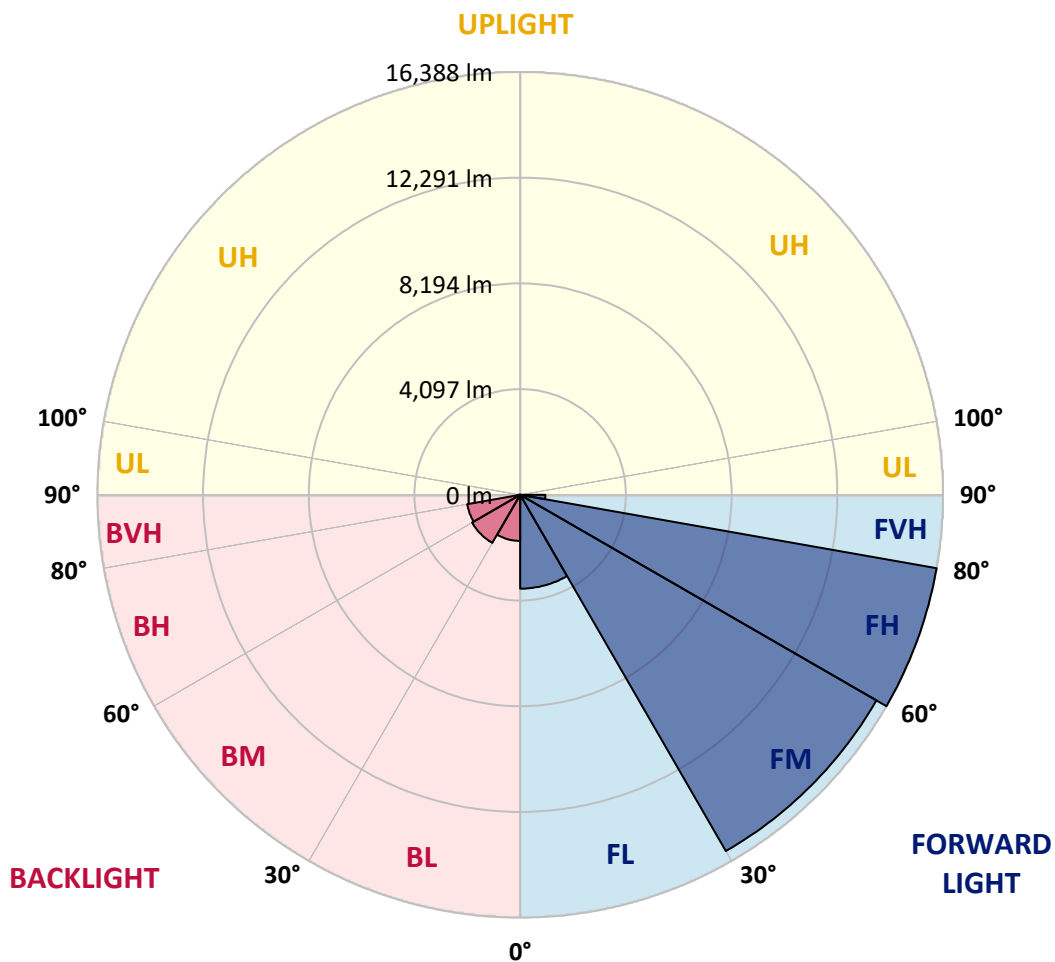
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3636.9	8.4			
FM (30°-60°)	15942.9	37.0			
FH (60°-80°)	16388.2	38.0			G5
FVH (80°-90°)	976.6	2.3			G5
BL (0°-30°)	1787.7	4.2	B3/2500		
BM (30°-60°)	2152.8	5.0	B2/2500		
BH (60°-80°)	2083.3	4.8	B3/2500		G3/2500
BVH (80°-90°)	104.1	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	10975.4	10975.4	10975.4	10975.4	10975.4	10975.4	10975.4	10975.4	10975.4	10975.4	10975.4
2.5°	11200.2	11225.1	11214.8	11208.6	11227.3	11198.1	11137.8	11119.1	11089.9	11021.3	10904.8
5°	10780.0	10854.8	10850.6	10906.8	11000.5	11025.5	10998.4	11002.6	10948.4	10863.1	10669.7
7.5°	10053.8	10085.0	10101.6	10224.4	10395.0	10532.3	10648.8	10686.3	10661.3	10588.5	10338.9
10°	9304.8	9329.7	9369.2	9512.8	9729.2	9918.5	10139.1	10266.0	10320.0	10307.6	10028.8
12.5°	8661.8	8686.8	8738.8	8901.1	9159.1	9392.1	9712.5	9870.7	9999.7	10076.7	9777.1
15°	8085.4	8139.5	8189.4	8376.7	8665.9	8971.8	9333.8	9533.6	9733.4	9906.1	9554.4
17.5°	7636.0	7690.1	7719.3	7889.9	8197.8	8572.3	8996.8	9231.9	9481.6	9764.6	9333.8
20°	7376.0	7400.9	7388.5	7484.1	7760.8	8158.2	8661.8	8934.4	9236.0	9631.4	9113.3
22.5°	7303.2	7305.2	7259.5	7249.0	7428.0	7763.0	8303.9	8634.7	9005.1	9544.0	8923.9
25°	7480.0	7473.8	7348.9	7247.0	7265.7	7461.3	7958.6	8343.5	8811.6	9525.3	8778.4
27.5°	7873.2	7892.0	7706.8	7515.3	7326.0	7319.7	7696.4	8102.1	8653.4	9610.6	8715.8
30°	8424.6	8455.8	8258.2	8014.7	7658.9	7365.6	7594.4	7958.6	8555.7	9787.4	8705.5
32.5°	9028.0	9061.3	8911.4	8655.6	8189.4	7648.5	7665.2	7971.0	8551.6	10035.0	8776.2
35°	9670.9	9708.4	9631.4	9415.0	8896.9	8170.7	7935.6	8172.9	8686.8	10413.7	8965.6
37.5°	10388.8	10447.0	10467.9	10261.8	9708.4	8859.5	8378.8	8555.7	8992.7	10940.2	9313.0
40°	11422.9	11504.0	11497.8	11202.3	10638.4	9789.5	9063.3	9109.2	9469.0	11643.4	9868.6
42.5°	13403.6	13420.3	12902.2	12259.2	11662.2	10767.5	9870.7	9833.2	10126.6	12533.9	10686.3
45°	15923.4	15854.6	14702.0	13459.8	12731.5	11891.0	10921.4	10738.3	10960.9	13620.0	11709.9
47.5°	18014.4	17856.2	16399.7	14685.3	13863.4	13112.3	12155.2	11834.8	11957.6	14851.8	13033.3
50°	18740.6	18621.9	17415.1	15704.9	14935.0	14602.1	13674.1	13220.5	13253.9	16320.7	14583.4
52.5°	18584.5	18567.8	17762.6	16376.9	15937.9	16166.7	15825.6	15211.7	14887.1	17952.0	16256.2
55°	18216.2	18251.6	17960.3	17159.2	17084.3	17677.3	18636.5	18183.0	17173.8	19597.8	17985.2
57.5°	16936.6	17028.1	17669.0	18143.4	18929.9	19812.1	20900.2	20771.2	19635.2	21376.7	20040.9
60°	13644.9	13857.2	15575.9	17952.0	20829.5	23588.4	24075.4	23775.7	22173.6	23584.3	22756.2
62.5°	9560.6	9781.1	11824.4	15542.5	20517.4	27853.8	29751.4	28459.3	25819.0	26836.4	26270.4
65°	5118.4	5224.5	6785.0	10784.0	17321.5	28734.0	38047.0	36080.8	31590.7	30845.9	29277.0
67.5°	2823.4	2881.8	3478.9	5445.1	11094.1	25302.9	43331.9	44817.4	38804.3	33515.3	28729.8
69°	2553.0	2607.1	2998.3	4123.8	7423.8	20921.1	42815.9	47120.8	41967.0	33251.0	26707.4
70°	2496.8	2546.7	2898.3	3801.4	6008.9	17244.5	41086.8	46531.9	42720.2	32304.4	24943.0
72.5°	2247.1	2301.2	2642.5	3414.4	5135.1	8597.3	32545.7	39343.2	38785.6	28009.8	18919.5
75°	2095.2	2145.1	2723.6	3343.6	4916.6	5441.0	21455.8	28996.2	28511.3	19593.6	10201.5
77.5°	896.7	892.6	1262.9	2829.7	4989.4	5268.2	11529.0	18114.2	16526.7	8374.7	2929.5
80°	599.2	588.8	599.2	832.3	4575.4	5297.4	6040.1	9194.5	6945.2	2134.8	1444.0
82.5°	516.0	507.7	526.4	507.7	1608.4	6046.4	5135.1	4889.6	3302.0	1213.0	715.8
85°	347.5	332.9	453.6	455.6	759.4	5372.2	5784.3	4130.2	2671.5	720.0	353.7
87.5°	166.4	162.3	264.2	322.5	445.3	2182.6	6489.6	4232.0	2694.5	368.3	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°	10975.4	10975.4	10975.4	10975.4	10975.4	10975.4	10975.4	10975.4	10975.4	10975.4	10975.4
2.5°	10869.4	10784.0	10700.9	10600.9	10496.9	10380.4	10322.2	10263.9	10249.4	10232.7	10174.5
5°	10569.7	10449.1	10241.1	10012.1	9770.8	9535.6	9356.7	9244.4	9159.1	9115.4	9038.4
7.5°	10182.8	10005.9	9641.8	9246.5	8840.8	8470.3	8150.0	7948.1	7756.7	7667.2	7565.3
10°	9814.5	9550.3	8984.3	8401.7	7819.1	7259.5	6733.1	6360.6	6029.8	5844.6	5713.5
12.5°	9498.2	9136.2	8351.8	7563.2	6764.3	5967.4	5178.8	4558.8	4040.7	3768.0	3628.7
15°	9190.3	8753.4	7750.5	6749.6	5723.9	4639.9	3603.8	2900.5	2471.9	2301.2	2242.9
17.5°	8911.4	8351.8	7147.1	5929.8	4650.2	3339.4	2421.9	2034.9	1870.5	1814.3	1795.6
20°	8609.8	7946.1	6520.8	5072.6	3530.9	2334.5	1891.3	1720.7	1654.1	1637.4	1629.2
22.5°	8318.5	7546.5	5921.6	4155.1	2536.3	1801.8	1625.0	1554.3	1543.8	1558.5	1558.5
25°	8070.9	7188.7	5274.4	3195.9	1862.2	1516.8	1454.4	1437.8	1477.2	1531.4	1541.8
27.5°	7885.7	6895.3	4585.8	2359.4	1483.5	1319.1	1317.0	1344.2	1441.8	1545.9	1566.8
30°	7758.8	6616.5	3849.3	1702.0	1244.2	1161.0	1194.3	1252.6	1396.1	1543.8	1583.4
32.5°	7694.3	6410.5	3081.4	1317.0	1065.3	1019.6	1075.7	1146.4	1287.9	1425.3	1477.2
35°	7744.2	6258.6	2357.4	1098.5	940.5	905.1	963.3	1032.1	1115.2	1173.5	1213.0
37.5°	7931.4	6198.3	1779.0	984.2	855.2	821.8	867.7	907.2	940.5	957.1	975.8
40°	8335.1	6262.8	1425.3	925.9	807.3	765.7	784.4	798.9	819.8	836.5	844.8
42.5°	8930.2	6456.3	1277.6	903.0	782.4	722.0	717.8	724.0	751.2	782.4	788.6
45°	9762.4	6797.5	1267.1	917.6	769.9	686.6	667.9	676.2	717.8	765.7	774.0
47.5°	10825.7	7317.7	1350.4	961.3	780.2	667.9	636.7	647.1	699.1	763.6	774.0
50°	12113.6	8043.9	1489.7	1025.8	826.0	672.1	626.3	632.5	686.6	757.4	767.7
52.5°	13634.6	9073.8	1641.6	1088.2	873.9	699.1	634.6	620.0	669.9	732.4	744.9
55°	15326.2	10395.0	1797.7	1144.4	898.9	732.4	651.2	603.4	638.7	690.8	701.2
57.5°	17402.6	12242.6	2068.2	1198.5	915.5	755.2	667.9	586.8	599.2	636.7	645.0
60°	20213.6	14855.9	2544.7	1287.9	953.0	763.6	665.8	572.1	559.7	580.5	584.6
62.5°	23582.2	17694.0	2942.0	1400.3	1015.4	769.9	653.4	561.8	526.4	526.4	530.6
65°	25581.7	18453.4	2721.5	1493.9	1067.3	763.6	638.7	551.4	501.5	478.5	480.6
67.5°	23886.0	16229.1	2332.4	1512.6	1065.3	734.5	615.9	532.7	476.5	441.1	439.1
69°	21761.6	14002.9	2157.6	1462.7	1015.4	697.0	586.8	511.9	457.8	420.3	418.2
70°	20049.2	12644.2	2043.2	1408.6	961.3	669.9	563.9	493.2	443.1	407.9	403.7
72.5°	14577.2	8285.2	1745.7	1211.0	792.7	561.8	486.9	432.8	395.4	374.5	370.3
75°	7284.4	3951.1	1416.9	982.0	607.5	449.4	399.5	362.0	343.3	339.1	337.1
77.5°	2392.8	1810.2	1013.2	732.4	451.5	351.6	322.5	295.4	291.3	303.8	299.6
80°	1315.0	1052.8	642.9	484.8	307.9	258.0	253.8	239.3	245.5	266.3	262.2
82.5°	669.9	547.2	397.4	291.3	208.1	185.2	201.8	193.5	201.8	220.5	218.5
85°	330.8	299.6	251.7	176.9	137.3	118.6	143.5	149.8	154.0	168.6	168.6
87.5°	191.4	176.9	133.2	83.3	68.6	62.4	83.3	81.1	95.7	104.0	102.0
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)