

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: P191167

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191167  
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-09-LED-E1-SL3-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 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: 43983.8 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G5

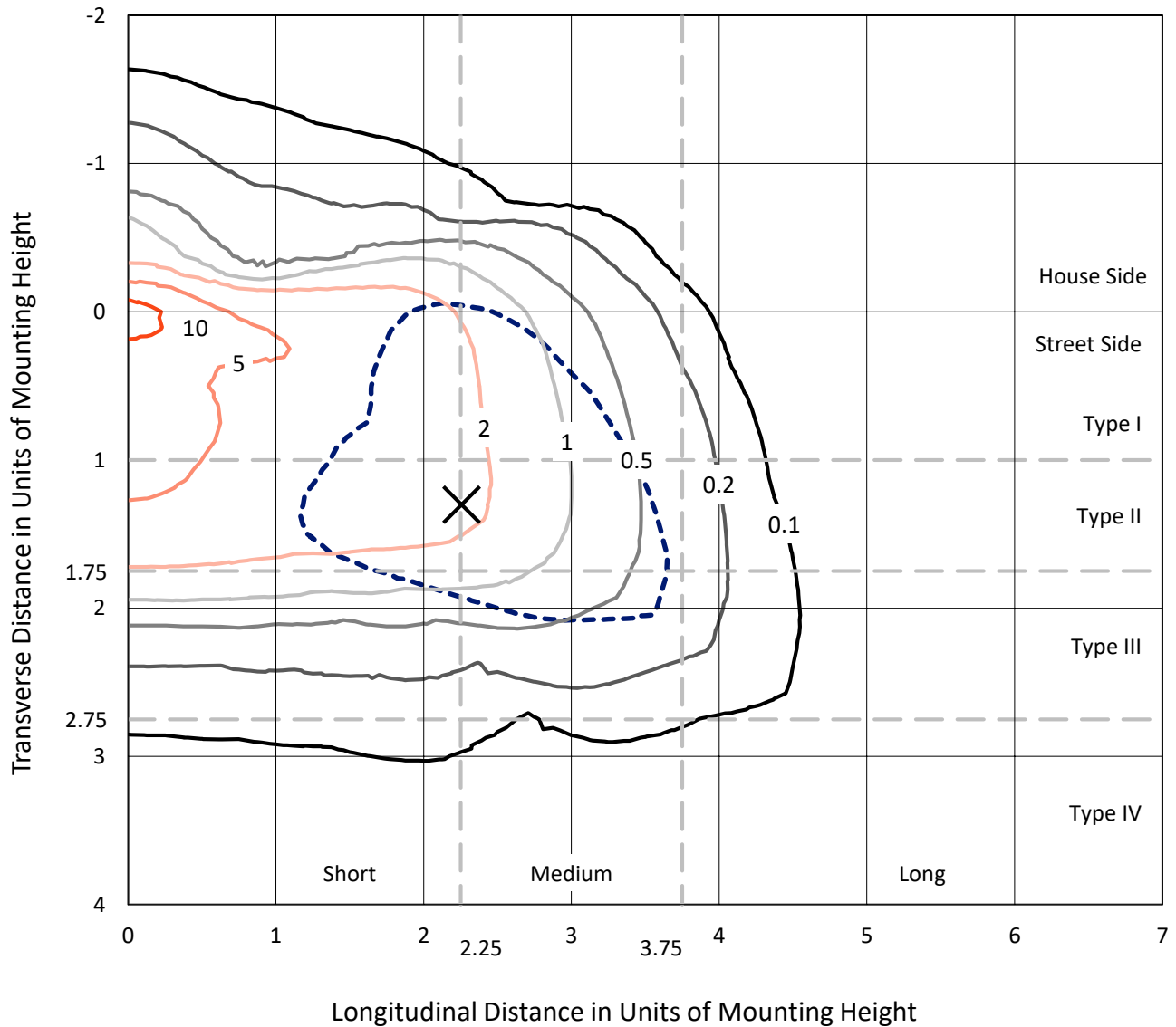
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

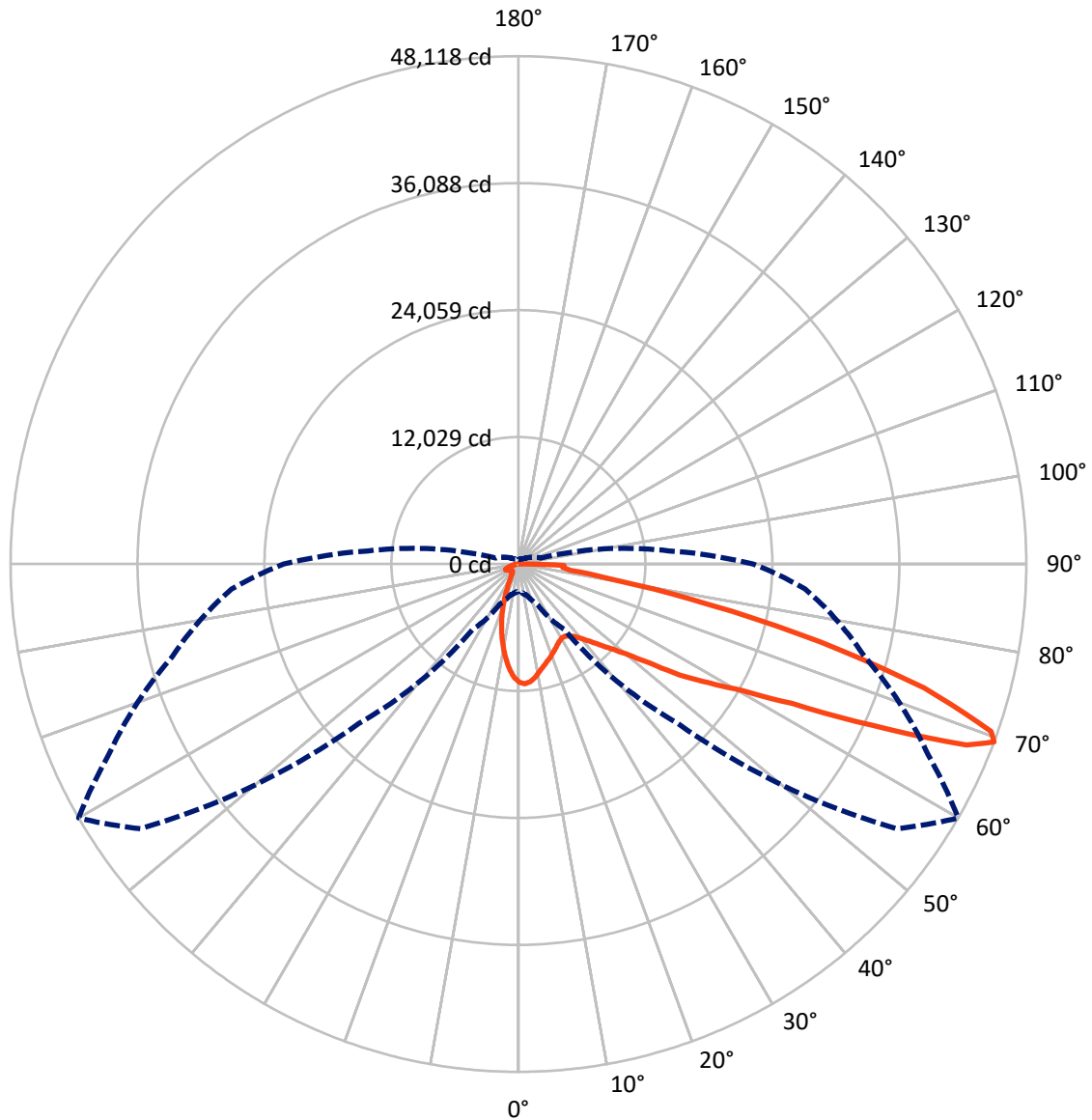
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 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	6257.5	0.0	6257.5
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	37726.3	0.0	37726.3
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	43983.8	0.0	43983.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	947.7	2.2
10°-20°	2019.0	4.6
20°-30°	2572.6	5.8
30°-40°	3536.7	8.0
40°-50°	5738.6	13.0
50°-60°	9203.3	20.9
60°-70°	12248.9	27.8
70°-80°	6613.5	15.0
80°-90°	1103.5	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°	43983.8	100.0
0°-180°	43983.8	100.0

**Coefficient of Utilization**



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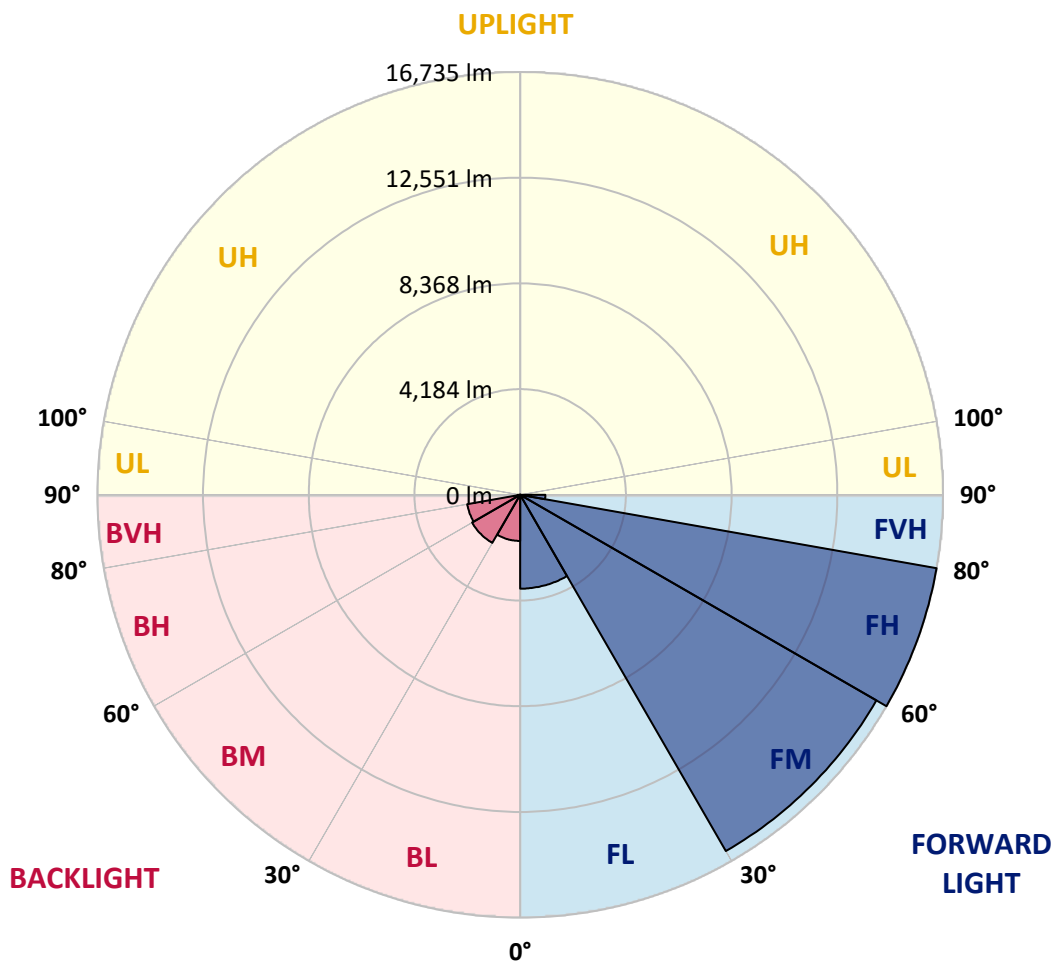
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3713.8	8.4			
FM (30°-60°)	16280.3	37.0			
FH (60°-80°)	16735.0	38.0			G5
FVH (80°-90°)	997.2	2.3			G5
BL (0°-30°)	1825.5	4.2	B3/2500		
BM (30°-60°)	2198.4	5.0	B2/2500		
BH (60°-80°)	2127.4	4.8	B3/2500		G3/2500
BVH (80°-90°)	106.3	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°	11207.8	11207.8	11207.8	11207.8	11207.8	11207.8	11207.8	11207.8	11207.8	11207.8	11207.8
2.5°	11437.2	11462.7	11452.0	11445.7	11464.8	11435.1	11373.5	11354.3	11324.6	11254.5	11135.5
5°	11008.0	11084.5	11080.3	11137.6	11233.2	11258.7	11231.1	11235.4	11180.1	11093.0	10895.4
7.5°	10266.5	10298.4	10315.3	10440.7	10615.0	10755.2	10874.2	10912.4	10887.0	10812.6	10557.6
10°	9501.6	9527.2	9567.5	9714.0	9935.1	10128.4	10353.6	10483.2	10538.4	10525.8	10241.0
12.5°	8845.0	8870.6	8923.7	9089.4	9352.8	9590.9	9918.0	10079.5	10211.3	10289.9	9983.9
15°	8256.5	8311.8	8362.8	8554.0	8849.3	9161.6	9531.3	9735.3	9939.3	10115.7	9756.6
17.5°	7797.6	7852.9	7882.6	8056.9	8371.3	8753.7	9187.1	9427.2	9682.2	9971.2	9531.3
20°	7532.0	7557.6	7544.8	7642.5	7925.1	8330.9	8845.0	9123.4	9431.5	9835.2	9306.2
22.5°	7457.6	7459.8	7413.0	7402.4	7585.2	7927.3	8479.6	8817.4	9195.6	9746.0	9112.8
25°	7638.3	7631.9	7504.4	7400.3	7419.5	7619.1	8126.9	8520.1	8998.1	9726.8	8964.1
27.5°	8039.8	8058.9	7869.9	7674.4	7481.0	7474.7	7859.2	8273.5	8836.6	9814.0	8900.3
30°	8602.9	8634.7	8432.9	8184.3	7821.0	7521.5	7755.1	8126.9	8736.7	9994.5	8889.7
32.5°	9219.0	9253.0	9100.1	8838.7	8362.8	7810.3	7827.3	8139.7	8732.5	10247.4	8962.0
35°	9875.6	9913.8	9835.2	9614.2	9085.1	8343.7	8103.6	8345.7	8870.6	10634.1	9155.3
37.5°	10608.6	10668.0	10689.3	10479.0	9913.8	9047.0	8556.2	8736.7	9182.9	11171.6	9510.1
40°	11664.5	11747.5	11741.0	11439.4	10863.5	9996.7	9255.1	9301.9	9669.4	11889.8	10077.4
42.5°	13687.3	13704.3	13175.2	12518.7	11908.9	10995.3	10079.5	10041.3	10340.9	12799.2	10912.4
45°	16260.2	16190.1	15013.0	13744.7	13001.0	12142.6	11152.5	10965.5	11192.8	13908.2	11957.8
47.5°	18395.6	18234.1	16746.8	14996.0	14156.8	13389.8	12412.5	12085.2	12210.6	15166.1	13309.1
50°	19137.1	19015.9	17783.7	16037.2	15251.1	14911.0	13963.5	13500.3	13534.3	16666.1	14891.9
52.5°	18977.8	18960.7	18138.5	16723.4	16275.1	16508.9	16160.4	15533.6	15202.2	18331.8	16600.2
55°	18601.6	18637.8	18340.3	17522.3	17445.8	18051.4	19030.9	18567.7	17537.2	20012.5	18365.9
57.5°	17295.0	17388.4	18042.9	18527.3	19330.4	20231.3	21342.5	21210.8	20050.8	21829.1	20465.1
60°	13933.7	14150.5	15905.5	18331.8	21270.3	24087.6	24584.8	24278.8	22642.8	24083.3	23237.8
62.5°	9762.9	9988.2	12074.6	15871.5	20951.6	28443.2	30380.9	29061.5	26365.3	27404.2	26826.4
65°	5226.8	5335.1	6928.7	11012.3	17688.0	29342.0	38852.1	36844.2	32259.2	31498.5	29896.6
67.5°	2883.2	2942.7	3552.5	5560.4	11328.9	25838.4	44248.9	45765.8	39625.5	34224.6	29337.7
69°	2607.0	2662.2	3061.7	4211.2	7580.9	21363.8	43721.8	48117.9	42855.0	33954.7	27272.5
70°	2549.6	2600.6	2959.7	3881.8	6136.1	17609.5	41956.2	47516.6	43624.1	32987.9	25470.8
72.5°	2294.7	2349.9	2698.3	3486.6	5243.7	8779.3	33234.4	40175.8	39606.4	28602.6	19319.9
75°	2139.6	2190.5	2781.2	3414.4	5020.6	5556.1	21909.8	29609.7	29114.6	20008.2	10417.3
77.5°	915.7	911.4	1289.7	2889.5	5095.0	5379.7	11772.9	18497.5	16876.4	8551.9	2991.5
80°	611.9	601.3	611.9	849.9	4672.2	5409.5	6168.0	9389.1	7092.2	2179.9	1474.6
82.5°	526.9	518.4	537.6	518.4	1642.3	6174.3	5243.7	4993.0	3371.9	1238.7	730.9
85°	354.9	339.9	463.2	465.3	775.5	5486.0	5906.6	4217.5	2728.1	735.1	361.2
87.5°	170.0	165.7	269.9	329.3	454.7	2228.8	6626.9	4321.7	2751.4	376.0	172.1
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°	11207.8	11207.8	11207.8	11207.8	11207.8	11207.8	11207.8	11207.8	11207.8	11207.8	11207.8
2.5°	11099.4	11012.3	10927.3	10825.3	10719.1	10600.1	10540.6	10481.1	10466.2	10449.2	10389.7
5°	10793.5	10670.2	10457.7	10224.0	9977.6	9737.5	9554.8	9440.0	9352.8	9308.2	9229.7
7.5°	10398.2	10217.6	9845.8	9442.1	9027.8	8649.7	8322.4	8116.3	7920.8	7829.5	7725.4
10°	10022.2	9752.3	9174.4	8579.5	7984.5	7413.0	6875.5	6495.2	6157.3	5968.3	5834.4
12.5°	9699.2	9329.5	8528.5	7723.3	6907.4	6093.6	5288.3	4655.2	4126.2	3847.8	3705.4
15°	9384.8	8938.5	7914.5	6892.5	5845.0	4738.1	3680.0	2961.9	2524.1	2349.9	2290.4
17.5°	9100.1	8528.5	7298.3	6055.4	4748.6	3410.1	2473.2	2077.9	1910.1	1852.8	1833.6
20°	8792.0	8114.1	6658.8	5180.0	3605.6	2383.9	1931.3	1757.1	1689.1	1672.1	1663.6
22.5°	8494.5	7706.3	6046.9	4243.0	2590.0	1840.0	1659.4	1587.1	1576.5	1591.4	1591.4
25°	8241.7	7340.8	5386.0	3263.5	1901.6	1548.8	1485.1	1468.1	1508.5	1563.8	1574.4
27.5°	8052.6	7041.2	4682.9	2409.4	1514.9	1347.0	1345.0	1372.6	1472.4	1578.6	1599.9
30°	7923.0	6756.5	3930.7	1738.0	1270.6	1185.6	1219.6	1279.1	1425.7	1576.5	1616.9
32.5°	7857.1	6546.2	3146.7	1345.0	1087.8	1041.1	1098.4	1170.7	1315.2	1455.5	1508.5
35°	7908.1	6391.1	2407.3	1121.9	960.3	924.2	983.8	1053.8	1138.9	1198.3	1238.7
37.5°	8099.3	6329.4	1816.7	1004.9	873.3	839.2	886.0	926.4	960.3	977.3	996.5
40°	8511.5	6395.3	1455.5	945.5	824.4	781.8	801.0	815.9	837.1	854.2	862.7
42.5°	9119.2	6592.9	1304.6	922.1	798.9	737.2	733.0	739.4	767.0	798.9	805.3
45°	9969.1	6941.3	1293.9	937.0	786.1	701.1	682.0	690.5	733.0	781.8	790.4
47.5°	11054.7	7472.6	1378.9	981.6	796.8	682.0	650.2	660.8	713.9	779.8	790.4
50°	12369.9	8214.1	1521.2	1047.5	843.5	686.3	639.5	645.9	701.1	773.4	784.0
52.5°	13923.1	9265.8	1676.4	1111.2	892.3	713.9	648.0	633.2	684.1	747.9	760.7
55°	15650.4	10615.0	1835.7	1168.6	917.9	747.9	665.0	616.1	652.2	705.4	716.1
57.5°	17770.9	12501.7	2112.0	1223.9	934.9	771.3	682.0	599.1	611.9	650.2	658.7
60°	20641.4	15170.3	2598.5	1315.2	973.1	779.8	679.9	584.3	571.5	592.8	597.0
62.5°	24081.3	18068.4	3004.3	1429.9	1036.9	786.1	667.2	573.7	537.6	537.6	541.8
65°	26123.1	18843.9	2779.1	1525.5	1090.0	779.8	652.2	563.0	512.1	488.7	490.8
67.5°	24391.4	16572.6	2381.7	1544.7	1087.8	750.0	628.9	543.9	486.5	450.4	448.4
69°	22222.2	14299.2	2203.3	1493.6	1036.9	711.8	599.1	522.6	467.4	429.2	427.1
70°	20473.5	12911.8	2086.4	1438.4	981.6	684.1	575.8	503.6	452.6	416.4	412.1
72.5°	14885.6	8460.5	1782.6	1236.5	809.5	573.7	497.2	441.9	403.7	382.5	378.2
75°	7438.6	4034.8	1447.0	1002.9	620.4	458.9	408.0	369.7	350.6	346.4	344.2
77.5°	2443.4	1848.5	1034.7	747.9	461.0	359.1	329.3	301.7	297.5	310.2	306.0
80°	1342.8	1075.1	656.5	495.0	314.5	263.5	259.2	244.4	250.7	272.0	267.7
82.5°	684.1	558.8	405.8	297.5	212.5	189.1	206.1	197.6	206.1	225.3	223.1
85°	337.8	306.0	257.1	180.6	140.2	121.1	146.6	152.9	157.2	172.1	172.1
87.5°	195.5	180.6	136.0	85.0	70.1	63.7	85.0	82.9	97.7	106.3	104.1
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)