

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: P191168

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191168
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-10-LED-E1-SL3-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 48697.6 lumens
Efficiency: N/A
Efficacy: 116.2 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

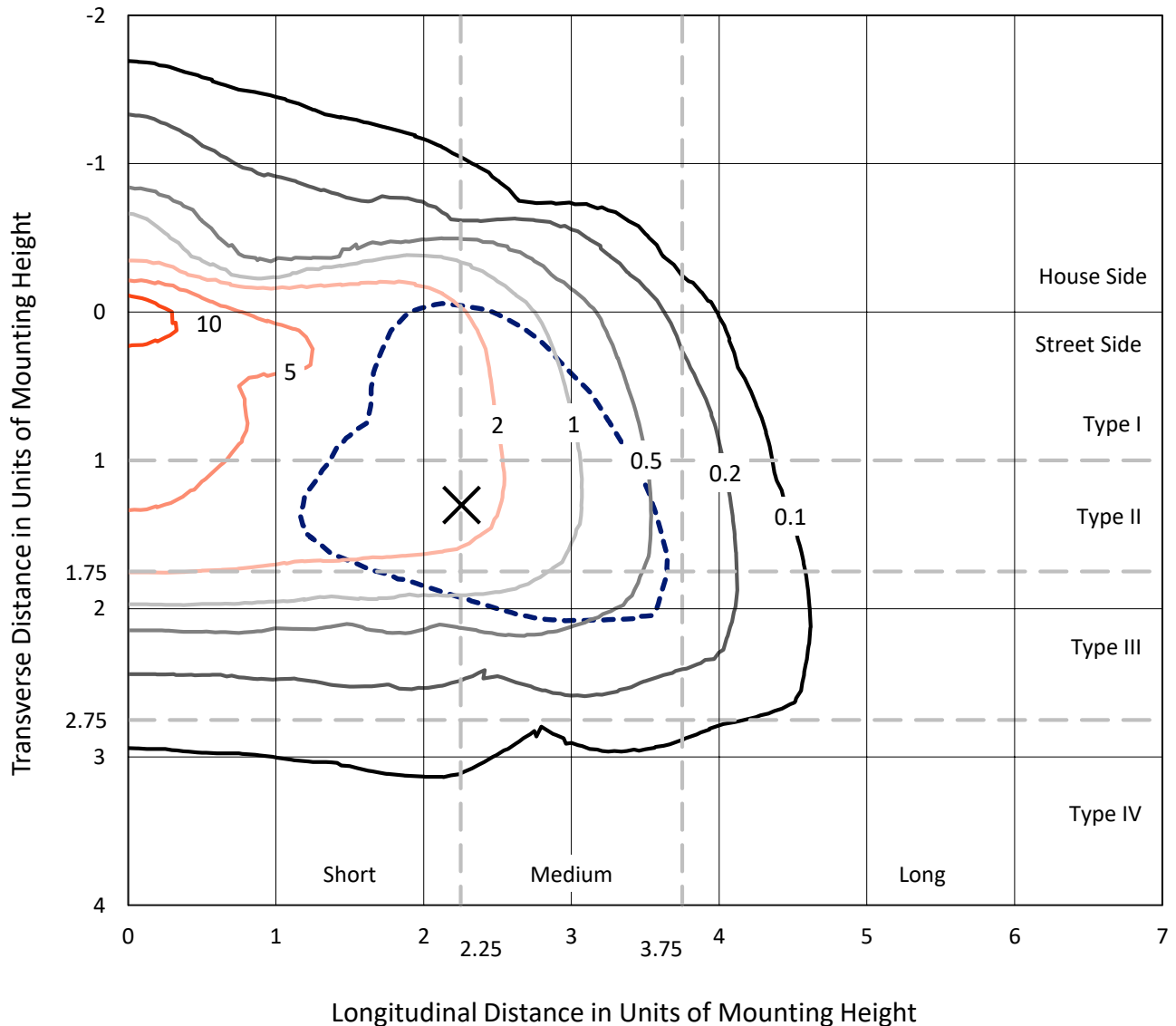
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

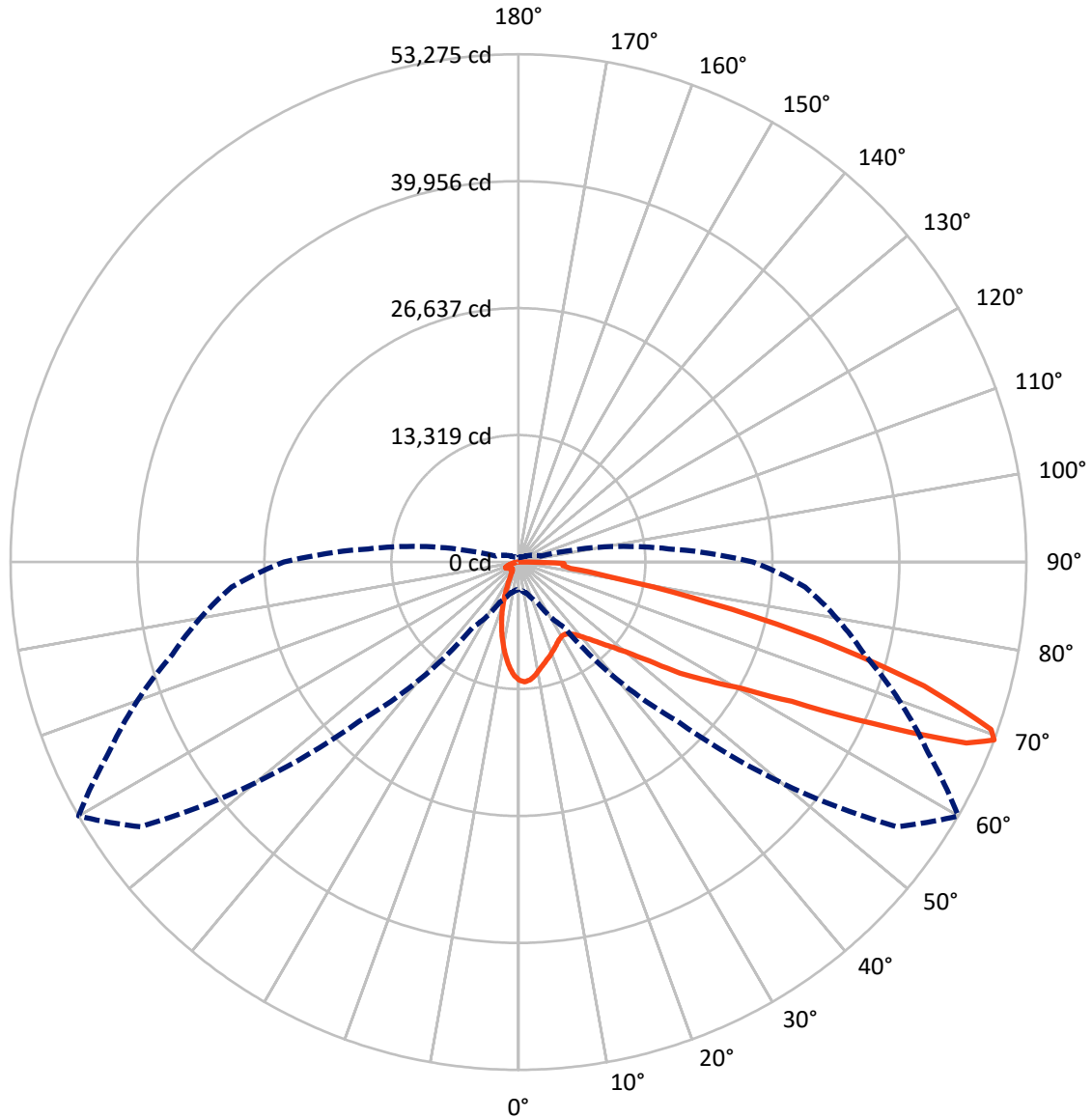
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.8 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
House Side	Lumens	6928.2	0.0	6928.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	41769.4	0.0	41769.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	48697.6	0.0	48697.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.2	2.2
10°-20°	2235.4	4.6
20°-30°	2848.3	5.8
30°-40°	3915.7	8.0
40°-50°	6353.7	13.0
50°-60°	10189.6	20.9
60°-70°	13561.6	27.8
70°-80°	7322.2	15.0
80°-90°	1221.8	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°	48697.6	100.0
0°-180°	48697.6	100.0



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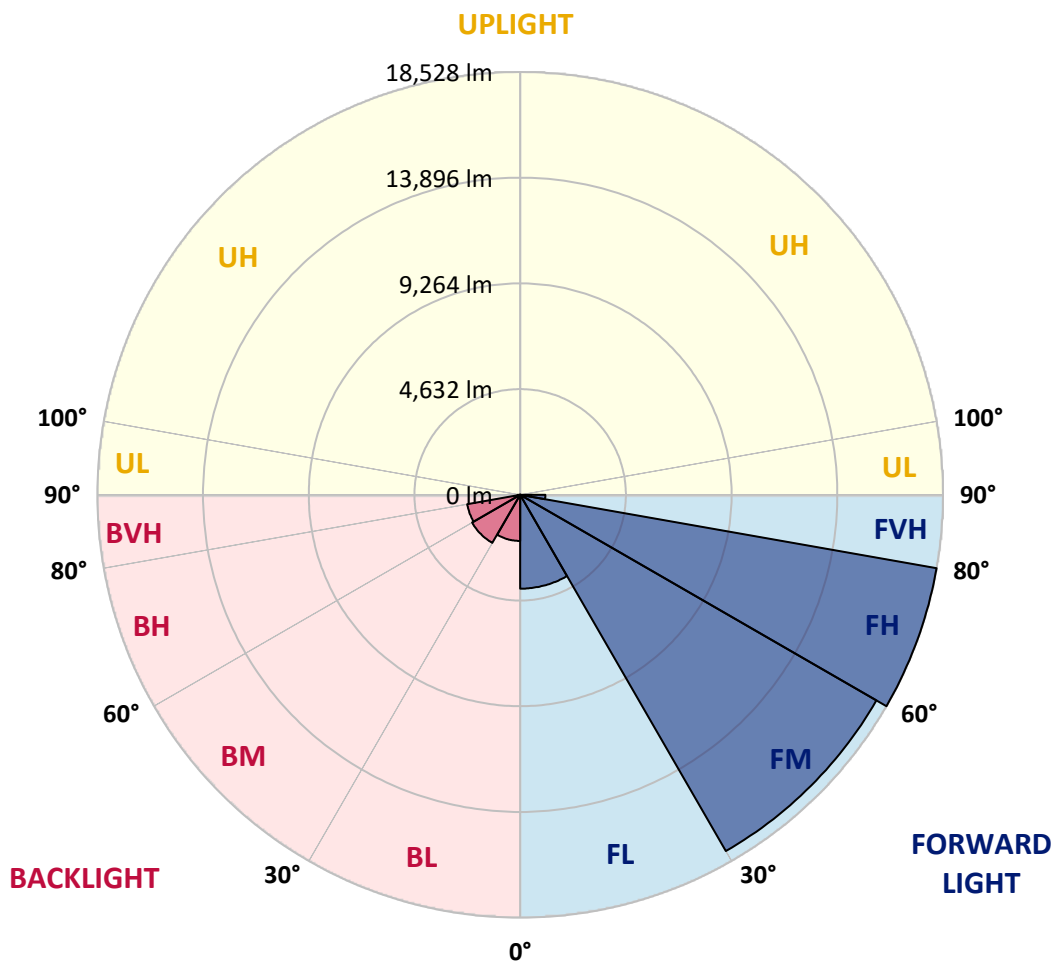
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4111.8	8.4			
FM (30°-60°)	18025.0	37.0			
FH (60°-80°)	18528.5	38.0			G5
FVH (80°-90°)	1104.1	2.3			G5
BL (0°-30°)	2021.2	4.2	B3/2500		
BM (30°-60°)	2434.0	5.0	B2/2500		
BH (60°-80°)	2355.3	4.8	B3/2500		G3/2500
BVH (80°-90°)	117.7	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°	12408.9	12408.9	12408.9	12408.9	12408.9	12408.9	12408.9	12408.9	12408.9	12408.9	12408.9
2.5°	12662.9	12691.1	12679.4	12672.3	12693.5	12660.6	12592.3	12571.2	12538.3	12460.7	12328.9
5°	12187.7	12272.4	12267.7	12331.3	12437.1	12465.4	12434.8	12439.5	12378.3	12281.9	12063.0
7.5°	11366.7	11402.0	11420.8	11559.7	11752.6	11907.9	12039.5	12081.9	12053.6	11971.3	11689.1
10°	10519.9	10548.2	10592.9	10755.1	10999.8	11213.9	11463.2	11606.7	11667.9	11653.8	11338.6
12.5°	9793.0	9821.2	9880.1	10063.6	10355.2	10618.7	10981.0	11159.8	11305.7	11392.6	11053.9
15°	9141.4	9202.6	9259.0	9470.8	9797.7	10143.5	10552.9	10778.6	11004.5	11199.8	10802.2
17.5°	8633.3	8694.5	8727.4	8920.2	9268.4	9691.8	10171.7	10437.6	10719.9	11039.8	10552.9
20°	8339.2	8367.4	8353.3	8461.5	8774.5	9223.7	9793.0	10101.2	10442.3	10889.2	10303.5
22.5°	8257.0	8259.3	8207.5	8195.8	8398.0	8776.8	9388.4	9762.4	10181.1	10790.4	10089.5
25°	8456.8	8449.8	8308.6	8193.4	8214.6	8435.7	8997.9	9433.1	9962.4	10769.2	9924.8
27.5°	8901.4	8922.6	8713.3	8496.8	8282.7	8275.8	8701.5	9160.2	9783.6	10865.7	9854.2
30°	9524.8	9560.1	9336.7	9061.4	8659.2	8327.4	8586.2	8997.9	9673.0	11065.7	9842.4
32.5°	10207.0	10244.6	10075.3	9786.0	9259.0	8647.4	8666.2	9012.0	9668.3	11345.6	9922.4
35°	10933.9	10976.3	10889.2	10644.6	10058.9	9237.9	8972.0	9240.2	9821.2	11773.8	10136.4
37.5°	11745.5	11811.4	11834.9	11602.0	10976.3	10016.5	9473.1	9673.0	10167.0	12368.9	10529.3
40°	12914.7	13006.4	12999.4	12665.3	12027.8	11068.0	10247.0	10298.8	10705.8	13164.0	11157.4
42.5°	15154.1	15172.9	14587.2	13860.3	13185.2	12173.6	11159.8	11117.4	11449.1	14170.8	12081.9
45°	18002.9	17925.3	16622.0	15217.6	14394.4	13443.9	12347.7	12140.7	12392.4	15398.8	13239.2
47.5°	20367.1	20188.2	18541.6	16603.2	15674.0	14824.8	13742.7	13380.4	13519.2	16791.4	14735.4
50°	21188.0	21054.0	19689.6	17755.9	16885.4	16509.1	15460.0	14947.2	14984.8	18452.2	16487.9
52.5°	21011.6	20992.8	20082.4	18515.7	18019.4	18278.1	17892.3	17198.4	16831.4	20296.5	18379.3
55°	20595.2	20635.2	20305.9	19400.2	19315.6	19985.9	21070.4	20557.5	19416.6	22157.2	20334.1
57.5°	19148.5	19252.0	19976.5	20512.9	21402.1	22399.5	23629.8	23484.0	22199.6	24168.5	22658.3
60°	15427.0	15666.9	17610.0	20296.5	23549.9	26669.1	27219.6	26880.8	25069.5	26664.4	25728.1
62.5°	10809.2	11058.6	13368.6	17572.4	23196.9	31491.5	33636.9	32176.1	29190.8	30341.2	29701.4
65°	5786.9	5906.8	7671.1	12192.4	19583.7	32486.6	43015.9	40792.8	35716.4	34874.2	33100.5
67.5°	3192.2	3258.1	3933.2	6156.2	12543.0	28607.4	48991.0	50670.5	43872.1	37892.3	32481.9
69°	2886.4	2947.5	3389.8	4662.4	8393.3	23653.3	48407.6	53274.7	47447.8	37593.6	30195.4
70°	2822.8	2879.3	3276.9	4297.8	6793.7	19496.6	46452.7	52608.9	48299.3	36523.2	28200.5
72.5°	2540.6	2601.8	2987.5	3860.3	5805.8	9720.1	36796.2	44481.4	43851.0	31667.9	21390.3
75°	2368.8	2425.3	3079.3	3780.3	5558.7	6151.5	24257.8	32783.0	32234.8	22152.5	11533.8
77.5°	1013.8	1009.1	1427.9	3199.3	5641.1	5956.2	13034.6	20480.0	18685.1	9468.4	3312.2
80°	677.5	665.7	677.5	940.9	5173.0	5989.2	6829.0	10395.2	7852.3	2413.6	1632.5
82.5°	583.4	574.0	595.2	574.0	1818.4	6836.1	5805.8	5528.1	3733.3	1371.5	809.3
85°	392.8	376.3	512.8	515.2	858.7	6073.9	6539.6	4669.5	3020.5	814.0	399.9
87.5°	188.2	183.5	298.8	364.6	503.4	2467.7	7337.1	4784.8	3046.3	416.3	190.6
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°	12408.9	12408.9	12408.9	12408.9	12408.9	12408.9	12408.9	12408.9	12408.9	12408.9	12408.9
2.5°	12288.9	12192.4	12098.3	11985.4	11867.9	11736.1	11670.2	11604.4	11587.9	11569.1	11503.2
5°	11950.2	11813.8	11578.5	11319.8	11046.8	10781.0	10578.7	10451.7	10355.2	10305.8	10218.8
7.5°	11512.6	11312.7	10901.0	10454.0	9995.4	9576.6	9214.3	8986.1	8769.8	8668.6	8553.3
10°	11096.3	10797.5	10157.6	9499.0	8840.3	8207.5	7612.4	7191.2	6817.3	6607.9	6459.6
12.5°	10738.6	10329.3	9442.6	8550.9	7647.7	6746.7	5855.1	5154.1	4568.4	4260.2	4102.5
15°	10390.5	9896.5	8762.7	7631.2	6471.4	5245.8	4074.3	3279.3	2794.6	2601.8	2535.9
17.5°	10075.3	9442.6	8080.5	6704.3	5257.6	3775.6	2738.2	2300.6	2114.8	2051.3	2030.1
20°	9734.2	8983.8	7372.4	5735.2	3992.0	2639.4	2138.4	1945.4	1870.2	1851.3	1841.9
22.5°	9404.9	8532.1	6694.9	4697.7	2867.5	2037.2	1837.2	1757.2	1745.5	1761.9	1761.9
25°	9124.9	8127.5	5963.3	3613.3	2105.4	1714.9	1644.3	1625.5	1670.2	1731.3	1743.1
27.5°	8915.5	7795.8	5184.7	2667.7	1677.2	1491.5	1489.1	1519.7	1630.2	1747.8	1771.3
30°	8772.1	7480.6	4351.9	1924.3	1406.8	1312.7	1350.3	1416.2	1578.4	1745.5	1790.2
32.5°	8699.2	7247.7	3483.9	1489.1	1204.4	1152.7	1216.2	1296.2	1456.2	1611.4	1670.2
35°	8755.6	7076.0	2665.3	1242.1	1063.3	1023.3	1089.1	1166.8	1260.9	1326.8	1371.5
37.5°	8967.3	7007.8	2011.3	1112.7	966.8	929.1	980.9	1025.6	1063.3	1082.1	1103.3
40°	9423.7	7080.7	1611.4	1046.8	912.8	865.7	886.9	903.4	926.8	945.6	955.0
42.5°	10096.5	7299.5	1444.4	1020.9	884.5	816.3	811.6	818.7	849.3	884.5	891.6
45°	11037.4	7685.2	1432.6	1037.4	870.4	776.3	755.1	764.6	811.6	865.7	875.1
47.5°	12239.5	8273.4	1526.8	1086.8	882.2	755.1	719.9	731.6	790.4	863.4	875.1
50°	13695.7	9094.3	1684.3	1159.7	933.9	759.8	708.1	715.1	776.3	856.3	868.1
52.5°	15415.3	10258.8	1856.0	1230.3	988.0	790.4	717.5	701.0	757.5	828.1	842.2
55°	17327.8	11752.6	2032.5	1293.8	1016.2	828.1	736.3	682.2	722.2	781.0	792.8
57.5°	19675.4	13841.4	2338.3	1355.0	1035.0	854.0	755.1	663.4	677.5	719.9	729.3
60°	22853.5	16796.1	2876.9	1456.2	1077.4	863.4	752.8	646.9	632.8	656.3	661.0
62.5°	26662.1	20004.7	3326.3	1583.1	1148.0	870.4	738.7	635.2	595.2	595.2	599.9
65°	28922.7	20863.4	3076.9	1689.0	1206.8	863.4	722.2	623.4	566.9	541.0	543.4
67.5°	27005.5	18348.7	2637.1	1710.2	1204.4	830.4	696.3	602.2	538.7	498.7	496.3
69°	24603.7	15831.6	2439.4	1653.7	1148.0	788.1	663.4	578.7	517.5	475.2	472.8
70°	22667.7	14295.5	2310.0	1592.5	1086.8	757.5	637.5	557.5	501.0	461.0	456.3
72.5°	16480.9	9367.3	1973.7	1369.1	896.3	635.2	550.4	489.3	446.9	423.4	418.7
75°	8235.8	4467.2	1601.9	1110.3	686.9	508.1	451.6	409.3	388.1	383.4	381.0
77.5°	2705.3	2046.6	1145.6	828.1	510.5	397.5	364.6	334.0	329.3	343.4	338.7
80°	1486.8	1190.3	726.9	548.1	348.1	291.7	287.0	270.6	277.6	301.2	296.5
82.5°	757.5	618.7	449.3	329.3	235.3	209.4	228.2	218.8	228.2	249.4	247.0
85°	374.0	338.7	284.7	200.0	155.3	134.1	162.3	169.4	174.1	190.6	190.6
87.5°	216.5	200.0	150.6	94.1	77.6	70.6	94.1	91.8	108.2	117.6	115.3
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)