

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: P191188

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191188
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-SL3-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA 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: 66119.5 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B4 - U0 - G5

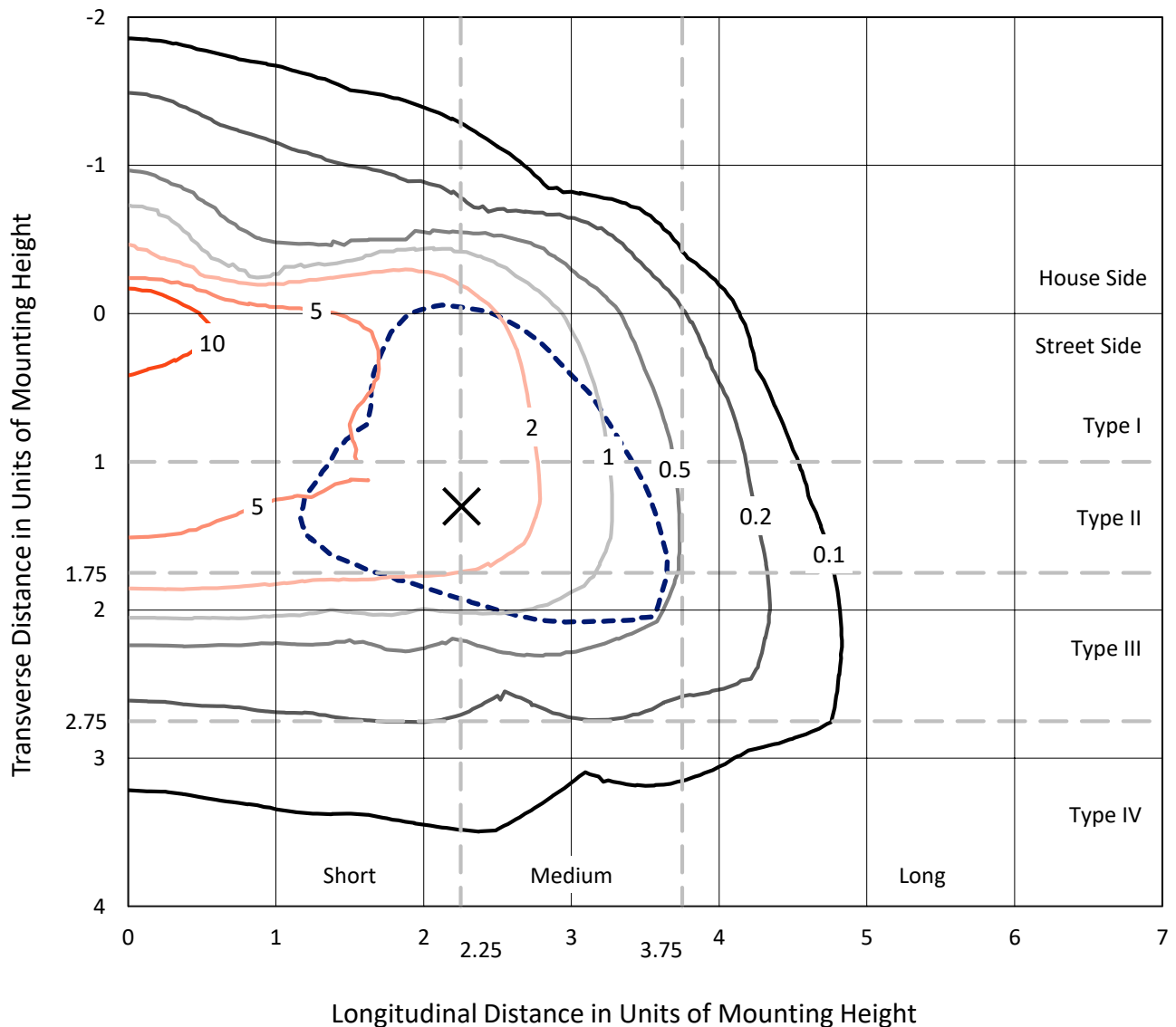
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

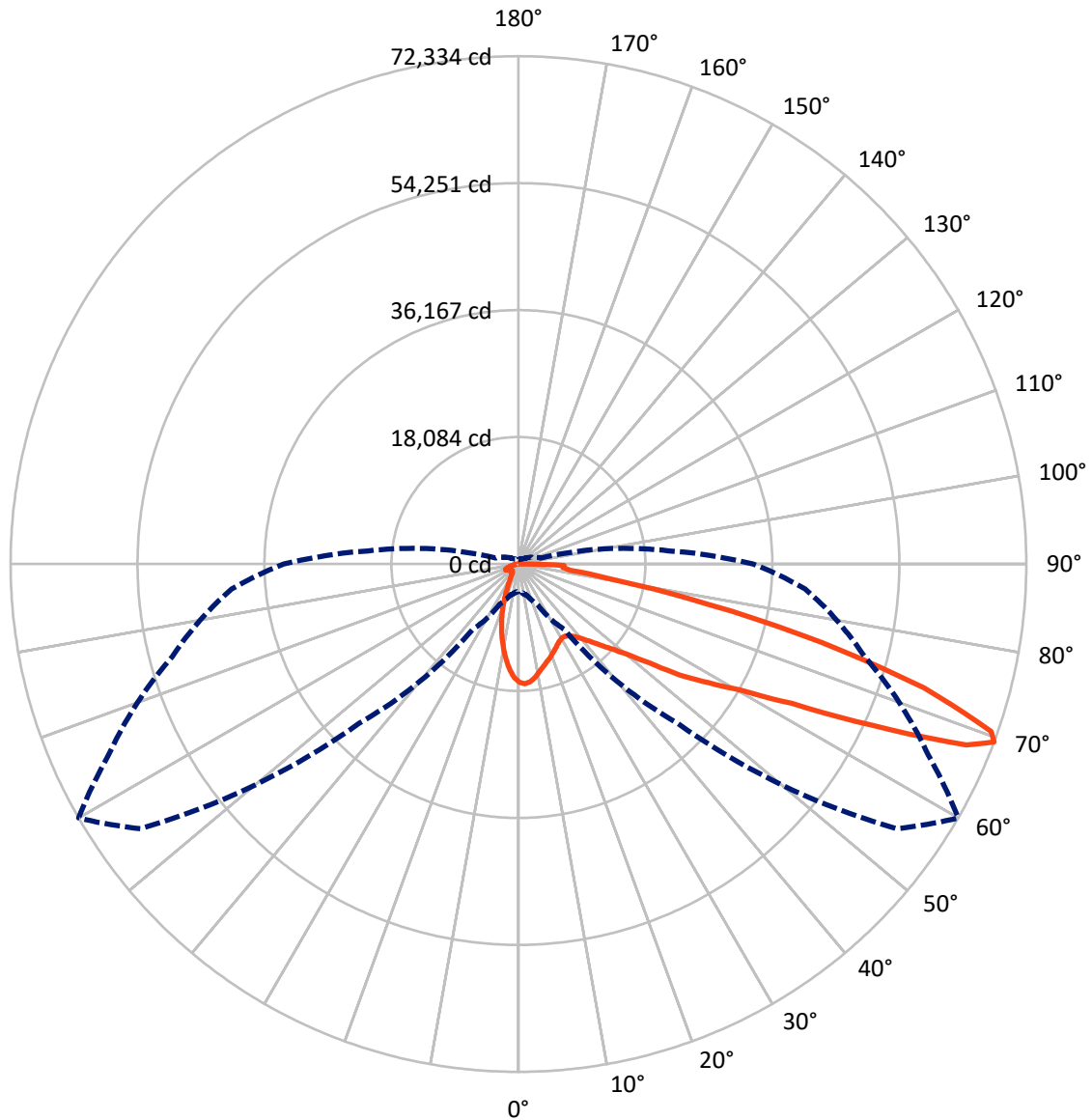
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.7 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	9406.7	0.0	9406.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	56712.7	0.0	56712.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	66119.5	0.0	66119.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1424.6	2.2
10°-20°	3035.2	4.6
20°-30°	3867.3	5.8
30°-40°	5316.6	8.0
40°-50°	8626.7	13.0
50°-60°	13835.0	20.9
60°-70°	18413.4	27.8
70°-80°	9941.8	15.0
80°-90°	1658.9	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°	66119.5	100.0
0°-180°	66119.5	100.0

Coefficient of Utilization



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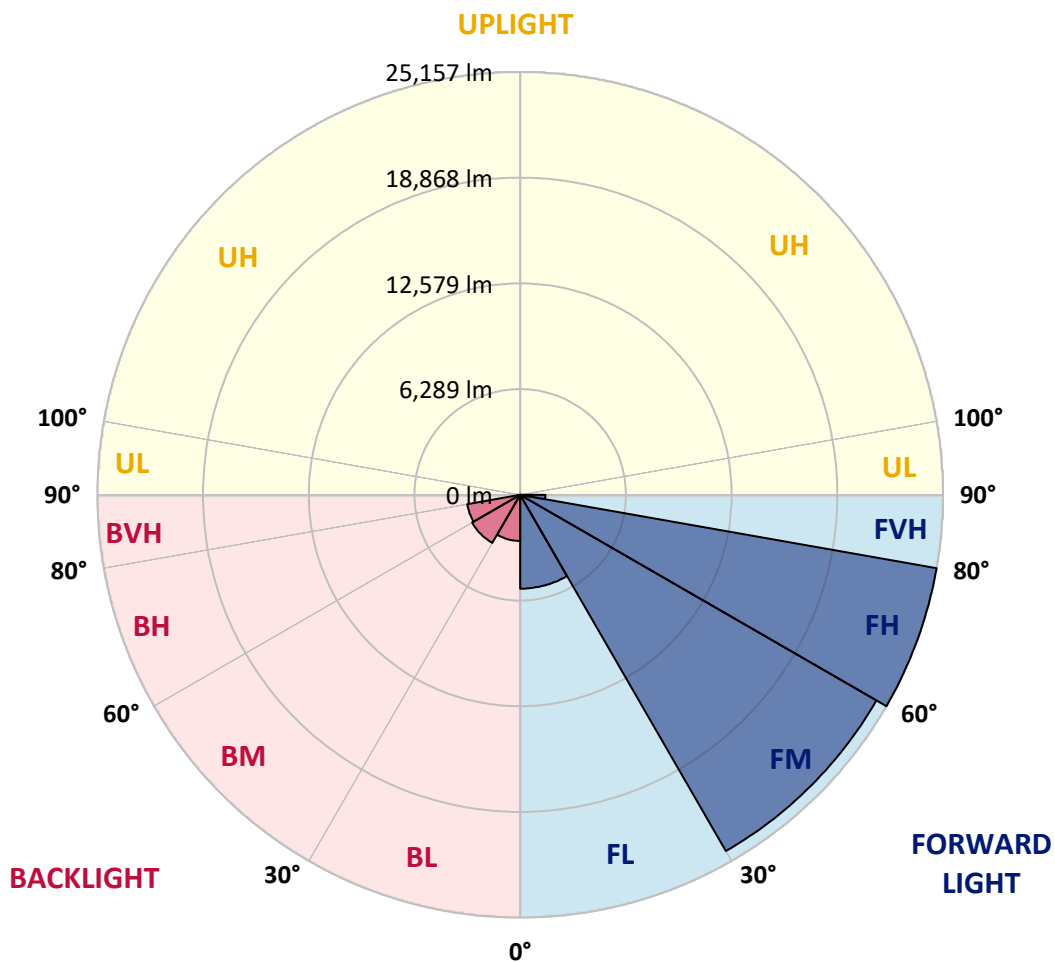
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5582.9	8.4			
FM (30°-60°)	24473.6	37.0			
FH (60°-80°)	25157.2	38.0			G5
FVH (80°-90°)	1499.1	2.3			G5
BL (0°-30°)	2744.2	4.2	B4/5000		
BM (30°-60°)	3304.8	5.0	B3/5000		
BH (60°-80°)	3198.0	4.8	B4/5000		G4/5000
BVH (80°-90°)	159.8	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	16848.2	16848.2	16848.2	16848.2	16848.2	16848.2	16848.2	16848.2	16848.2	16848.2	16848.2
2.5°	17193.1	17231.5	17215.5	17205.9	17234.7	17190.0	17097.4	17068.7	17023.9	16918.5	16739.7
5°	16548.0	16662.9	16656.6	16742.8	16886.6	16924.9	16883.4	16889.7	16806.7	16675.7	16378.8
7.5°	15433.3	15481.2	15506.8	15695.2	15957.1	16167.9	16346.8	16404.2	16366.0	16254.2	15870.9
10°	14283.5	14321.8	14382.5	14602.8	14935.1	15225.7	15564.3	15759.1	15842.1	15823.0	15395.0
12.5°	13296.5	13334.9	13414.7	13663.9	14059.8	14417.6	14909.5	15152.3	15350.3	15468.4	15008.5
15°	12411.8	12494.8	12571.5	12859.0	13303.0	13772.4	14328.2	14634.8	14941.4	15206.6	14666.8
17.5°	11721.9	11805.0	11849.7	12111.5	12584.2	13159.2	13810.8	14171.7	14555.0	14989.3	14328.2
20°	11322.6	11361.0	11341.9	11488.8	11913.6	12523.6	13296.5	13714.9	14178.1	14784.9	13989.7
22.5°	11210.8	11214.1	11143.8	11127.9	11402.5	11916.8	12747.2	13255.0	13823.5	14650.8	13698.9
25°	11482.3	11472.8	11281.1	11124.6	11153.3	11453.6	12217.0	12807.9	13526.5	14622.1	13475.4
27.5°	12086.1	12114.8	11830.5	11536.6	11246.0	11236.4	11814.6	12437.3	13283.7	14753.0	13379.6
30°	12932.5	12980.3	12676.9	12303.2	11757.1	11306.7	11658.1	12217.0	13133.7	15024.5	13363.6
32.5°	13858.6	13909.8	13679.8	13286.9	12571.5	11741.0	11766.6	12236.1	13127.2	15404.5	13472.2
35°	14845.6	14903.1	14784.9	14452.8	13657.4	12542.7	12181.8	12546.0	13334.9	15985.9	13762.9
37.5°	15947.5	16037.0	16068.9	15752.7	14903.1	13599.9	12862.2	13133.7	13804.4	16794.0	14296.2
40°	17534.9	17659.5	17649.9	17196.4	16330.8	15027.7	13912.9	13983.2	14535.8	17873.5	15149.1
42.5°	20575.6	20601.2	19805.9	18818.9	17902.3	16528.8	15152.3	15094.8	15545.1	19240.6	16404.2
45°	24443.5	24338.1	22568.6	20661.9	19544.0	18253.6	16765.2	16484.1	16825.9	20907.8	17975.7
47.5°	27653.4	27410.7	25174.9	22543.1	21281.5	20128.5	18659.2	18167.4	18355.8	22798.6	20007.1
50°	28768.1	28586.2	26733.6	24108.2	22926.4	22415.3	20990.8	20294.5	20345.7	25053.6	22386.6
52.5°	28528.7	28503.1	27267.0	25139.8	24465.9	24817.2	24293.4	23351.2	22852.9	27557.7	24954.6
55°	27963.3	28017.6	27570.5	26340.8	26225.8	27136.0	28608.5	27912.1	26363.1	30084.1	27608.7
57.5°	25999.0	26139.6	27123.2	27851.5	29058.9	30413.0	32083.5	31885.5	30141.6	32814.9	30764.4
60°	20946.1	21271.9	23910.1	27557.7	31974.9	36210.1	36957.6	36497.6	34038.3	36203.8	34932.5
62.5°	14676.4	15014.9	18151.3	23859.0	31495.8	42757.8	45670.7	43687.3	39634.1	41196.0	40327.2
65°	7857.2	8020.0	10415.6	16554.4	26589.9	44108.8	58405.1	55386.8	48494.2	47350.8	44942.5
67.5°	4334.2	4423.6	5340.3	8358.6	17030.3	38842.0	66517.8	68798.4	59567.8	51448.6	44102.5
69°	3919.0	4002.1	4602.6	6330.4	11396.1	32115.4	65725.7	72334.1	64422.6	51043.0	40997.9
70°	3832.8	3909.4	4449.2	5835.4	9224.3	26471.7	63071.5	71430.1	65578.8	49589.7	38289.5
72.5°	3449.5	3532.6	4056.3	5241.3	7882.8	13197.5	49960.2	60394.9	59539.0	42997.4	29042.8
75°	3216.4	3293.0	4180.9	5132.8	7547.3	8352.3	32936.4	44511.2	43767.1	30077.7	15660.0
77.5°	1376.6	1370.2	1938.7	4343.9	7659.1	8087.1	17697.9	27806.8	25369.8	12855.7	4497.1
80°	919.8	903.9	919.8	1277.6	7023.6	8131.8	9272.1	14114.2	10661.5	3277.0	2216.6
82.5°	792.1	779.3	808.0	779.3	2469.0	9281.7	7882.8	7505.9	5068.8	1862.1	1098.8
85°	533.4	511.1	696.3	699.5	1165.8	8246.8	8879.2	6340.0	4101.1	1105.1	543.0
87.5°	255.5	249.1	405.6	495.1	683.5	3350.5	9962.0	6496.6	4136.2	565.4	258.7
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°	16848.2	16848.2	16848.2	16848.2	16848.2	16848.2	16848.2	16848.2	16848.2	16848.2	16848.2
2.5°	16685.4	16554.4	16426.6	16273.3	16113.6	15934.8	15845.3	15755.9	15733.5	15708.0	15618.5
5°	16225.4	16040.2	15720.8	15369.4	14998.9	14638.0	14363.4	14190.9	14059.8	13992.8	13874.7
7.5°	15631.3	15359.8	14800.9	14194.1	13571.2	13002.7	12510.8	12201.0	11907.1	11769.8	11613.4
10°	15066.0	14660.3	13791.6	12897.3	12003.0	11143.8	10335.7	9764.0	9256.2	8971.9	8770.7
12.5°	14580.5	14024.8	12820.6	11610.1	10383.7	9160.3	7949.9	6998.0	6202.7	5784.3	5570.3
15°	14107.8	13437.1	11897.5	10361.3	8786.6	7122.6	5532.0	4452.4	3794.4	3532.6	3443.2
17.5°	13679.8	12820.6	10971.4	9102.8	7138.6	5126.3	3717.8	3123.7	2871.4	2785.2	2756.4
20°	13216.7	12197.8	10009.9	7786.9	5420.2	3583.6	2903.3	2641.5	2539.2	2513.7	2500.9
22.5°	12769.5	11584.6	9090.0	6378.4	3893.5	2766.0	2494.5	2385.9	2370.0	2392.3	2392.3
25°	12389.5	11035.2	8096.8	4906.0	2858.6	2328.4	2232.6	2207.0	2267.7	2350.7	2366.7
27.5°	12105.2	10584.9	7039.5	3622.0	2277.3	2025.0	2021.8	2063.3	2213.5	2373.1	2405.1
30°	11910.3	10156.9	5908.9	2612.7	1910.0	1782.3	1833.3	1922.7	2143.2	2370.0	2430.6
32.5°	11811.3	9840.7	4730.3	2021.8	1635.3	1565.0	1651.2	1759.9	1977.1	2187.9	2267.7
35°	11888.0	9607.5	3618.8	1686.4	1443.7	1389.4	1478.8	1584.2	1712.0	1801.4	1862.1
37.5°	12175.5	9514.9	2730.9	1510.8	1312.8	1261.6	1331.9	1392.5	1443.7	1469.3	1498.0
40°	12795.1	9613.9	2187.9	1421.3	1239.3	1175.4	1204.1	1226.5	1258.4	1284.0	1296.8
42.5°	13708.6	9911.0	1961.1	1386.2	1200.9	1108.3	1101.9	1111.5	1153.1	1200.9	1210.6
45°	14986.1	10434.7	1945.1	1408.5	1181.8	1054.0	1025.3	1038.1	1101.9	1175.4	1188.2
47.5°	16618.2	11233.2	2072.9	1475.6	1197.8	1025.3	977.3	993.3	1073.2	1172.2	1188.2
50°	18595.3	12347.9	2286.9	1574.6	1268.0	1031.6	961.4	971.0	1054.0	1162.6	1178.5
52.5°	20930.2	13928.9	2520.0	1670.5	1341.5	1073.2	974.2	951.9	1028.5	1124.3	1143.5
55°	23526.8	15957.1	2759.6	1756.7	1379.8	1124.3	999.7	926.3	980.6	1060.4	1076.3
57.5°	26714.5	18793.3	3174.8	1839.8	1405.3	1159.4	1025.3	900.7	919.8	977.3	990.1
60°	31029.5	22805.1	3906.2	1977.1	1462.8	1172.2	1022.0	878.3	859.2	891.1	897.5
62.5°	36200.6	27161.6	4516.3	2149.5	1558.7	1181.8	1002.9	862.3	808.0	808.0	814.5
65°	39270.0	28327.3	4177.7	2293.3	1638.5	1172.2	980.6	846.4	769.8	734.6	737.9
67.5°	36666.9	24913.0	3580.4	2322.0	1635.3	1127.5	945.4	817.6	731.4	677.1	673.9
69°	33405.8	21495.5	3312.1	2245.4	1558.7	1070.0	900.7	785.7	702.7	645.2	642.0
70°	30777.2	19409.8	3136.5	2162.3	1475.6	1028.5	865.5	757.0	680.4	626.0	619.6
72.5°	22377.0	12718.4	2679.7	1858.9	1216.9	862.3	747.4	664.3	606.8	574.9	568.6
75°	11182.1	6065.4	2175.1	1507.5	932.6	689.9	613.3	555.8	527.0	520.6	517.4
77.5°	3673.1	2778.7	1555.5	1124.3	693.0	539.8	495.1	453.6	447.1	466.4	459.9
80°	2018.6	1616.2	986.9	744.2	472.7	396.1	389.6	367.3	376.9	408.9	402.4
82.5°	1028.5	840.0	610.1	447.1	319.4	284.3	309.9	297.1	309.9	338.6	335.3
85°	507.8	459.9	386.5	271.5	210.8	182.1	220.3	230.0	236.4	258.7	258.7
87.5°	293.9	271.5	204.4	127.8	105.4	95.9	127.8	124.6	146.9	159.7	156.5
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)