

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: P194047

Luminaire Tested: **GLEON-AF-09-LED-E1-T3R-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48704 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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

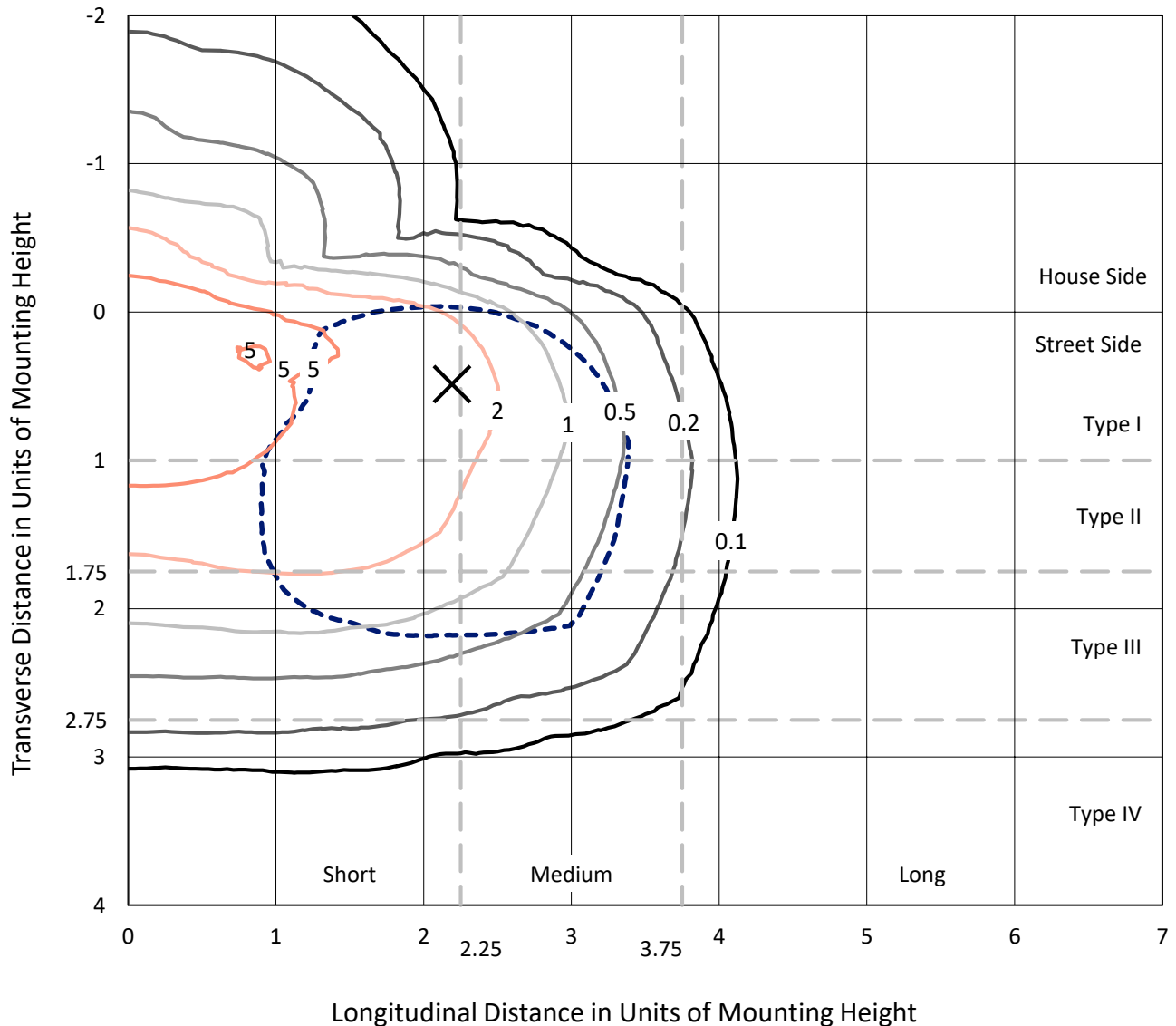


REPORT NUMBER: P194047

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

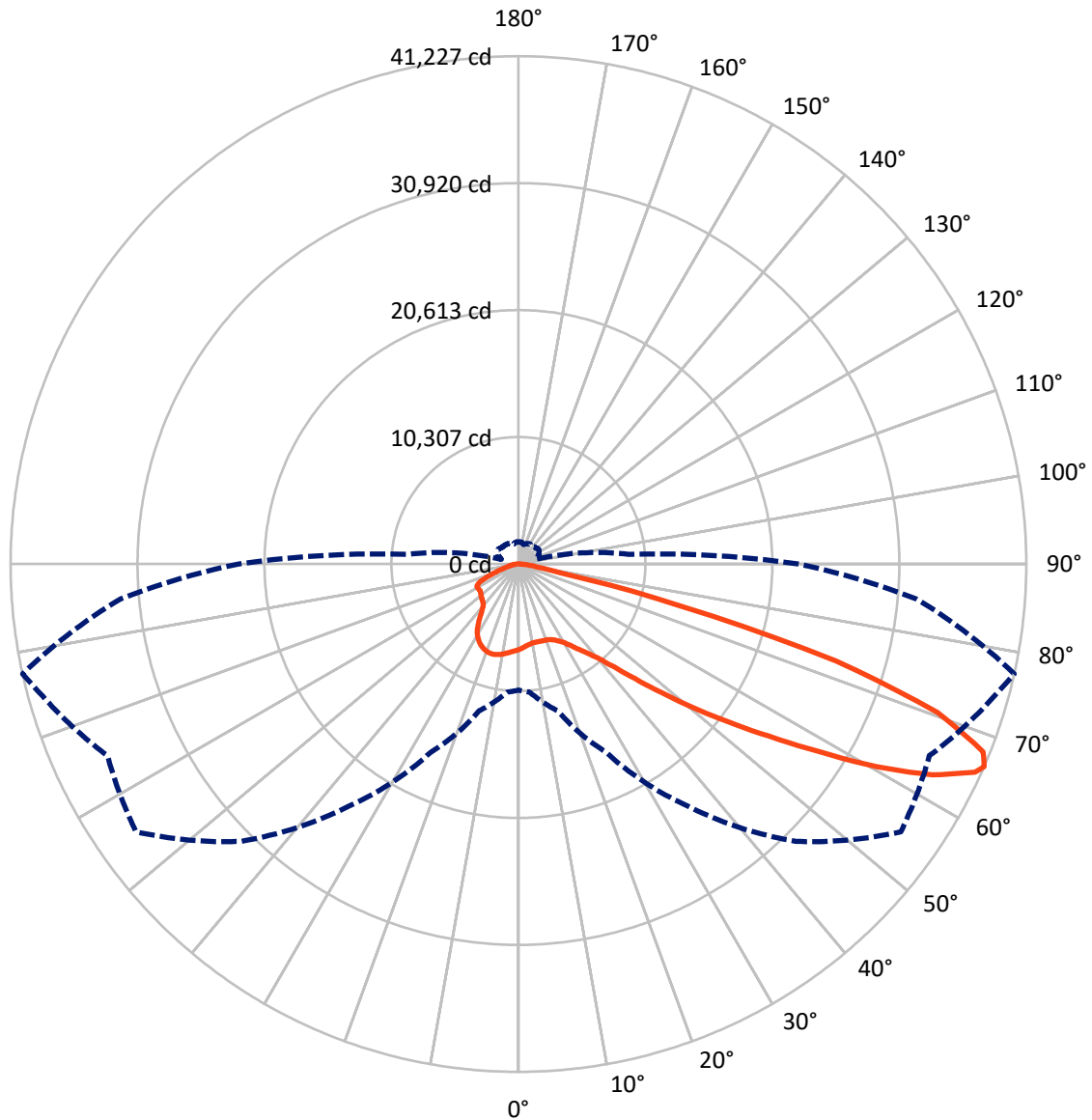
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P194047
CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-8030-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P194047

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8320.8	0.0	8320.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	40383.2	0.0	40383.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	48704.0	0.0	48704.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.1	1.3
10°-20°	1749.3	3.6
20°-30°	2985.5	6.1
30°-40°	4779.3	9.8
40°-50°	7383.6	15.2
50°-60°	10472.5	21.5
60°-70°	14009.3	28.8
70°-80°	6084.0	12.5
80°-90°	620.4	1.3
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°	48704.0	100.0
0°-180°	48704.0	100.0



REPORT NUMBER: P194047

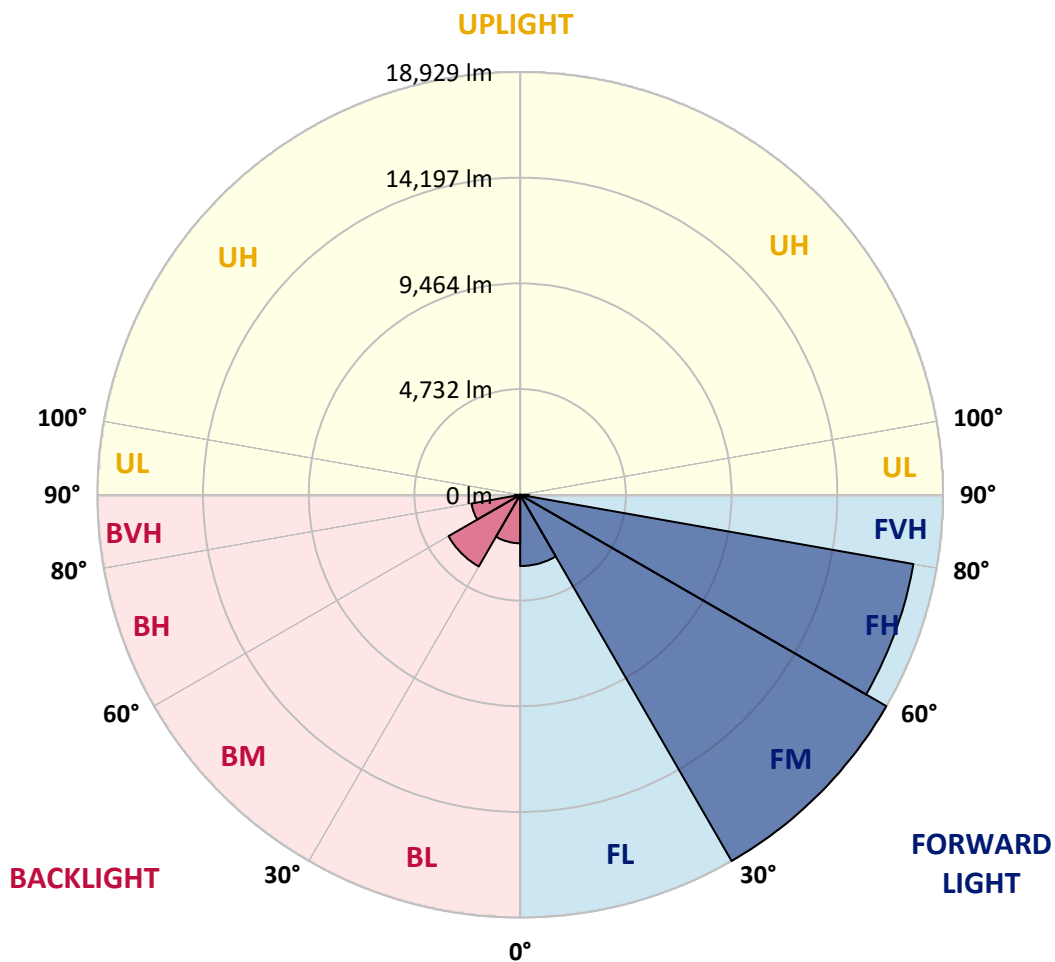
CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3187.9	6.5			
FM	(30°-60°)	18928.9	38.9			
FH	(60°-80°)	17877.3	36.7			G5
FVH	(80°-90°)	389.1	0.8			G3/500
BL	(0°-30°)	2167.1	4.4	B3/2500		
BM	(30°-60°)	3706.4	7.6	B3/5000		
BH	(60°-80°)	2216.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	231.3	0.5			G3/500
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 Short





REPORT NUMBER: P194047

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	6940.6	6940.6	6940.6	6940.6	6940.6	6940.6	6940.6	6940.6	6940.6	6940.6	6940.6
2.5°	6139.7	6181.1	6215.7	6247.9	6312.3	6418.2	6540.1	6639.1	6781.8	6809.4	6885.3
5°	5575.9	5575.9	5603.5	5651.9	5739.3	5898.1	6063.8	6284.7	6595.4	6669.0	6871.5
7.5°	5302.1	5304.4	5320.5	5361.9	5437.8	5582.8	5764.6	6024.7	6445.8	6567.7	6912.9
10°	5403.3	5380.3	5345.8	5325.1	5336.6	5421.7	5594.3	5884.3	6353.7	6510.2	7005.0
12.5°	5969.4	5925.7	5806.0	5647.3	5495.4	5433.2	5534.5	5817.5	6314.6	6496.4	7127.0
15°	6894.5	6876.1	6652.9	6323.8	5955.6	5647.3	5578.2	5792.2	6319.2	6512.5	7271.9
17.5°	8054.4	8029.0	7734.5	7255.8	6655.2	6054.6	5732.4	5812.9	6335.3	6540.1	7412.3
20°	9225.7	9147.4	8829.9	8259.2	7488.2	6609.2	5987.8	5865.9	6356.0	6570.1	7559.6
22.5°	10100.2	10035.7	9750.4	9195.8	8307.5	7251.2	6330.7	5957.9	6422.8	6657.5	7741.4
25°	10868.8	10873.4	10590.3	10054.1	9135.9	7932.4	6772.6	6204.2	6593.1	6837.0	7989.9
27.5°	11819.2	11764.0	11499.3	10967.7	9955.2	8620.5	7306.4	6542.4	6846.2	7092.4	8316.7
30°	12956.0	12916.9	12610.8	12007.9	10864.2	9359.2	7916.3	6935.9	7173.0	7428.4	8744.7
32.5°	14293.0	14274.6	13957.0	13181.5	11913.5	10229.0	8632.0	7456.0	7660.8	7925.5	9359.2
35°	15862.5	15864.8	15489.7	14557.7	13061.9	11241.6	9444.3	8125.7	8254.6	8530.7	10091.0
37.5°	16829.0	16946.4	16806.0	15855.6	14362.1	12373.8	10498.3	9014.0	8931.1	9209.6	10875.7
40°	17036.1	17178.8	17622.9	17139.7	15816.4	13621.1	11432.6	9867.7	9764.2	10104.8	11885.9
42.5°	16746.2	16944.1	17883.0	18223.6	17360.6	15158.3	12689.1	11135.7	11004.5	11462.5	13142.4
45°	16573.6	16720.8	17807.0	18787.4	18699.9	16895.7	14288.4	12728.2	12679.9	13280.5	14592.2
47.5°	16274.4	16407.9	17452.6	18918.5	19486.9	18488.2	16210.0	14675.0	14769.4	15556.4	16228.4
50°	16435.5	16490.7	17056.8	18584.8	19714.8	19654.9	18357.0	16930.3	17252.4	18235.1	18080.9
52.5°	16412.5	16555.1	17010.8	18037.1	19744.7	20375.2	20471.9	19445.5	20124.4	21252.0	20135.9
55°	13269.0	13531.3	16470.0	17899.1	19850.5	21081.7	22354.3	22096.5	23362.2	24676.2	22455.5
57.5°	12670.6	12836.3	14465.6	18189.0	20412.0	22430.2	24448.4	25014.5	27131.7	28657.4	25281.5
60°	12553.3	12758.1	14444.9	18543.4	21551.1	24627.9	27552.8	28546.9	31718.0	33388.7	28558.4
62.5°	12187.4	12408.3	14309.1	18497.4	23168.9	27667.9	31527.0	32302.6	36067.4	37692.1	31299.2
65°	11027.6	11234.7	13202.2	17754.1	24259.7	30912.6	36230.8	35745.2	39500.9	40722.8	32666.2
66°	10233.6	10436.1	12330.1	16879.6	24006.6	31833.1	37896.9	36810.7	40269.5	41226.8	32399.2
67.5°	8781.5	8940.3	10636.3	14921.3	22660.3	32090.8	39298.3	37611.5	40350.0	40688.3	30873.5
70°	5548.3	5594.3	6912.9	10300.4	17153.5	27831.2	37165.1	35623.3	37022.4	36106.5	25882.1
72.5°	2407.1	2391.0	3318.4	5239.9	9711.2	18674.6	30063.4	29393.8	29041.7	26952.2	18117.7
75°	1339.3	1357.7	1723.6	2432.4	3946.6	9172.8	19666.4	18819.6	15890.1	13558.9	8215.4
77.5°	1074.7	1100.0	1429.1	1725.9	1772.0	3198.7	9202.7	7488.2	4508.1	3617.6	2282.8
80°	849.2	895.2	1247.3	1343.9	1194.3	1318.6	2973.2	2377.2	1783.5	1636.2	1182.8
82.5°	672.0	704.2	1070.1	1017.1	835.4	888.3	1424.5	1387.7	1159.8	1056.3	683.5
85°	483.3	543.1	879.1	766.3	547.7	598.3	945.8	906.7	665.1	543.1	301.5
87.5°	197.9	257.7	621.3	508.6	306.1	278.5	471.8	444.1	315.3	230.1	149.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P194047

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-8030-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6940.6	6940.6	6940.6	6940.6	6940.6	6940.6	6940.6	6940.6	6940.6	6940.6	6940.6
2.5°	6933.6	6988.9	7060.2	7103.9	7127.0	7143.1	7168.4	7166.1	7173.0	7175.3	7184.5
5°	6979.7	7071.7	7175.3	7202.9	7202.9	7177.6	7152.3	7110.8	7094.7	7090.1	7094.7
7.5°	7099.3	7200.6	7290.3	7258.1	7189.1	7087.8	6956.7	6841.6	6779.5	6758.8	6754.2
10°	7251.2	7373.2	7410.0	7288.0	7085.5	6841.6	6581.6	6392.9	6284.7	6254.8	6245.6
12.5°	7435.3	7550.4	7499.8	7242.0	6866.9	6473.4	6114.4	5812.9	5587.4	5516.1	5511.5
15°	7637.8	7727.6	7550.4	7099.3	6540.1	5960.2	5320.5	4800.4	4519.6	4429.9	4423.0
17.5°	7826.5	7872.6	7520.5	6850.8	6059.2	5120.3	4271.1	3870.7	3774.0	3797.1	3801.7
20°	7987.6	7987.6	7419.2	6494.1	5302.1	4013.4	3477.2	3470.3	3539.3	3608.4	3622.2
22.5°	8164.8	8059.0	7242.0	5990.1	4229.7	3283.9	3205.6	3270.1	3348.3	3424.3	3435.8
25°	8383.4	8116.5	6995.8	5226.1	3325.3	2982.4	3012.3	3065.3	3104.4	3152.7	3159.6
27.5°	8627.4	8190.1	6671.3	4174.5	2885.8	2793.7	2816.7	2835.1	2830.5	2848.9	2853.5
30°	8919.6	8275.3	6227.2	3263.2	2704.0	2632.6	2591.2	2575.1	2575.1	2605.0	2616.5
32.5°	9310.8	8401.8	5589.7	2796.0	2616.5	2517.6	2384.1	2324.3	2347.3	2448.5	2471.5
35°	9741.2	8537.6	4726.8	2637.2	2598.1	2464.6	2257.5	2147.1	2149.4	2243.7	2273.6
37.5°	10210.6	8710.2	3780.9	2607.3	2639.5	2466.9	2190.8	2038.9	1976.8	1976.8	1988.3
40°	10811.2	8887.4	3060.7	2628.0	2727.0	2494.5	2156.3	1953.8	1778.9	1783.5	1792.7
42.5°	11593.7	9039.3	2674.0	2671.7	2832.8	2531.4	2154.0	1841.0	1689.1	1792.7	1887.0
45°	12463.5	9115.2	2503.8	2710.9	2918.0	2554.4	2117.1	1822.6	1700.6	2009.0	2188.5
47.5°	13464.6	9071.5	2409.4	2724.7	2938.7	2554.4	2075.7	1866.3	1781.2	2326.6	2536.0
50°	14562.3	8944.9	2317.4	2697.1	2931.8	2549.8	2114.8	1910.0	1811.1	2381.8	2526.8
52.5°	15853.3	8839.1	2220.7	2637.2	2883.5	2524.5	2160.9	1891.6	1716.7	2165.5	2266.7
55°	17326.1	8869.0	2112.5	2552.1	2807.5	2476.1	2144.8	1818.0	1617.8	1907.7	1969.9
57.5°	19208.5	9225.7	1983.7	2443.9	2704.0	2395.6	2087.2	1783.5	1587.9	1730.5	1767.4
60°	21309.5	9847.0	1822.6	2335.8	2575.1	2266.7	2043.5	1799.6	1601.7	1716.7	1735.1
62.5°	22851.4	10208.3	1684.5	2177.0	2400.2	2124.0	1988.3	1820.3	1638.5	1765.1	1760.5
65°	23270.2	9614.6	1511.9	1944.6	2163.2	1974.5	1919.2	1843.3	1654.6	1804.2	1783.5
66°	22683.4	8974.9	1436.0	1836.4	2043.5	1900.8	1884.7	1841.0	1647.7	1808.8	1774.3
67.5°	21258.9	7663.1	1304.8	1677.6	1852.5	1790.4	1829.5	1820.3	1629.3	1804.2	1755.8
70°	17337.6	5228.4	1116.1	1396.9	1541.8	1576.4	1723.6	1746.6	1569.4	1723.6	1617.8
72.5°	12113.7	3184.9	987.2	1083.9	1247.3	1343.9	1578.7	1645.4	1488.9	1505.0	1403.8
75°	5854.4	1691.4	895.2	840.0	968.8	1123.0	1403.8	1507.3	1362.3	1258.8	1222.0
77.5°	1824.9	1033.3	759.4	676.6	759.4	906.7	1173.6	1320.9	1212.8	1054.0	1040.2
80°	980.3	759.4	584.5	543.1	600.6	711.1	922.8	1102.3	1042.5	945.8	844.6
82.5°	646.6	492.5	432.6	421.1	457.9	543.1	685.8	913.6	913.6	810.0	589.1
85°	333.7	301.5	296.9	296.9	319.9	361.3	467.2	704.2	750.2	428.0	354.4
87.5°	165.7	172.6	161.1	168.0	179.5	177.2	223.2	354.4	423.4	260.0	216.3
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)