

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: P191266

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191266  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-SL4-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50868.3 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

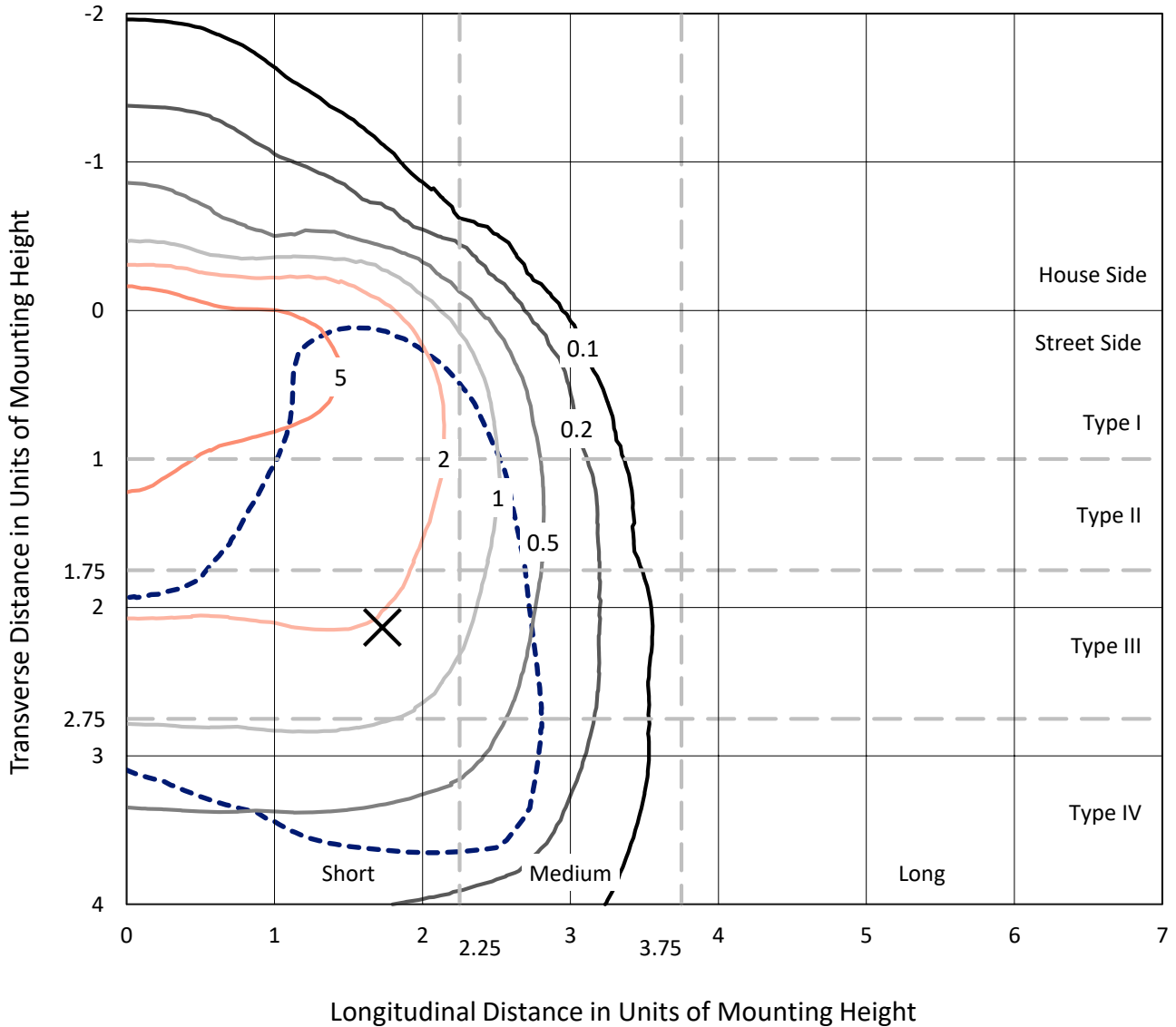
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P191266  
 CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-1200

### Iso-Footcandle Lines of Horizontal Illumination

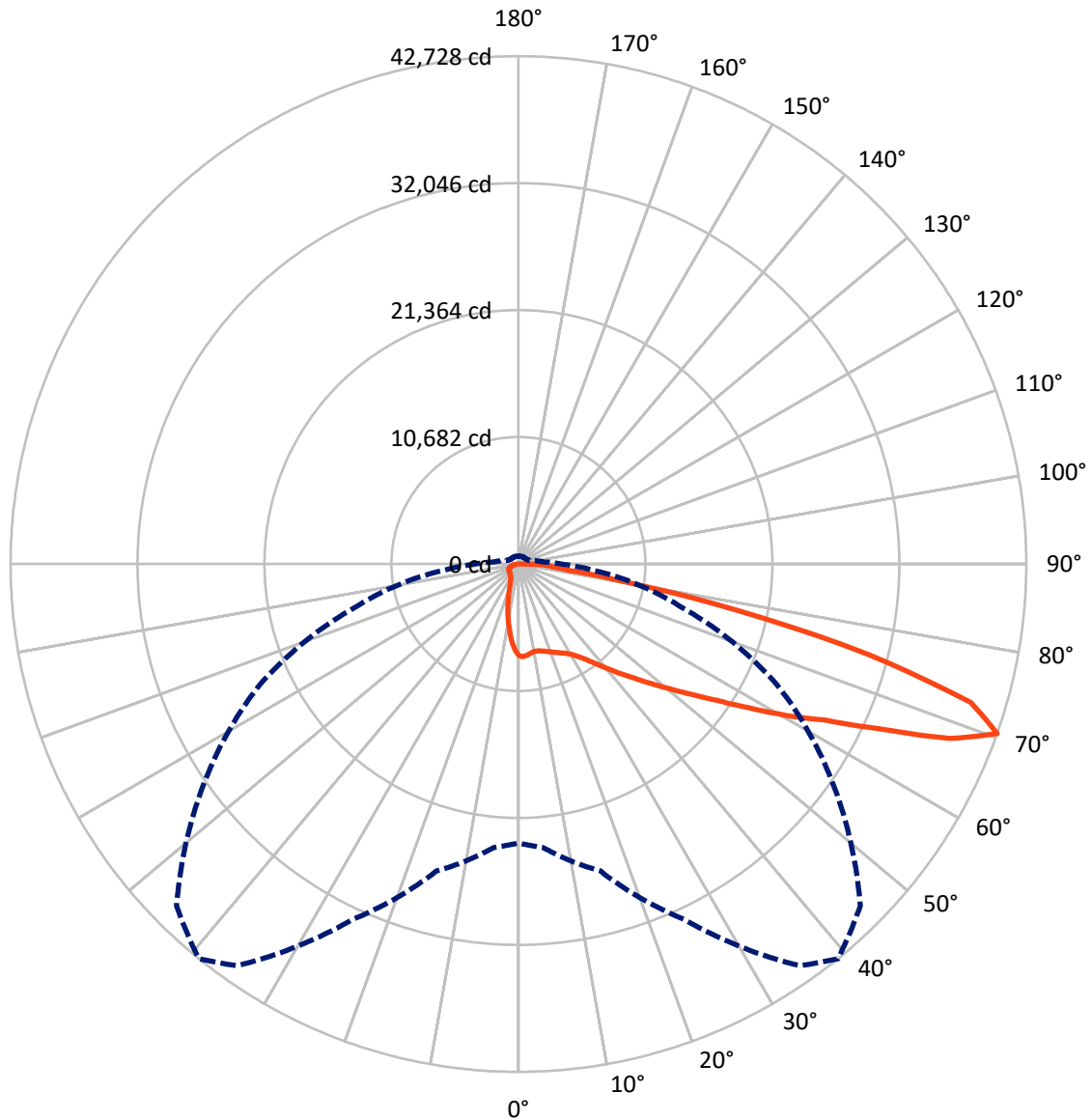
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P191266  
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-1200

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P191266

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5785.4	0.0	5785.4
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	45082.8	0.0	45082.8
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	50868.3	0.0	50868.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	662.7	1.3
10°-20°	1656.6	3.3
20°-30°	2579.4	5.1
30°-40°	4018.2	7.9
40°-50°	6745.9	13.3
50°-60°	10716.4	21.1
60°-70°	14294.5	28.1
70°-80°	8632.1	17.0
80°-90°	1562.3	3.1
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°	50868.3	100.0
0°-180°	50868.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P191266

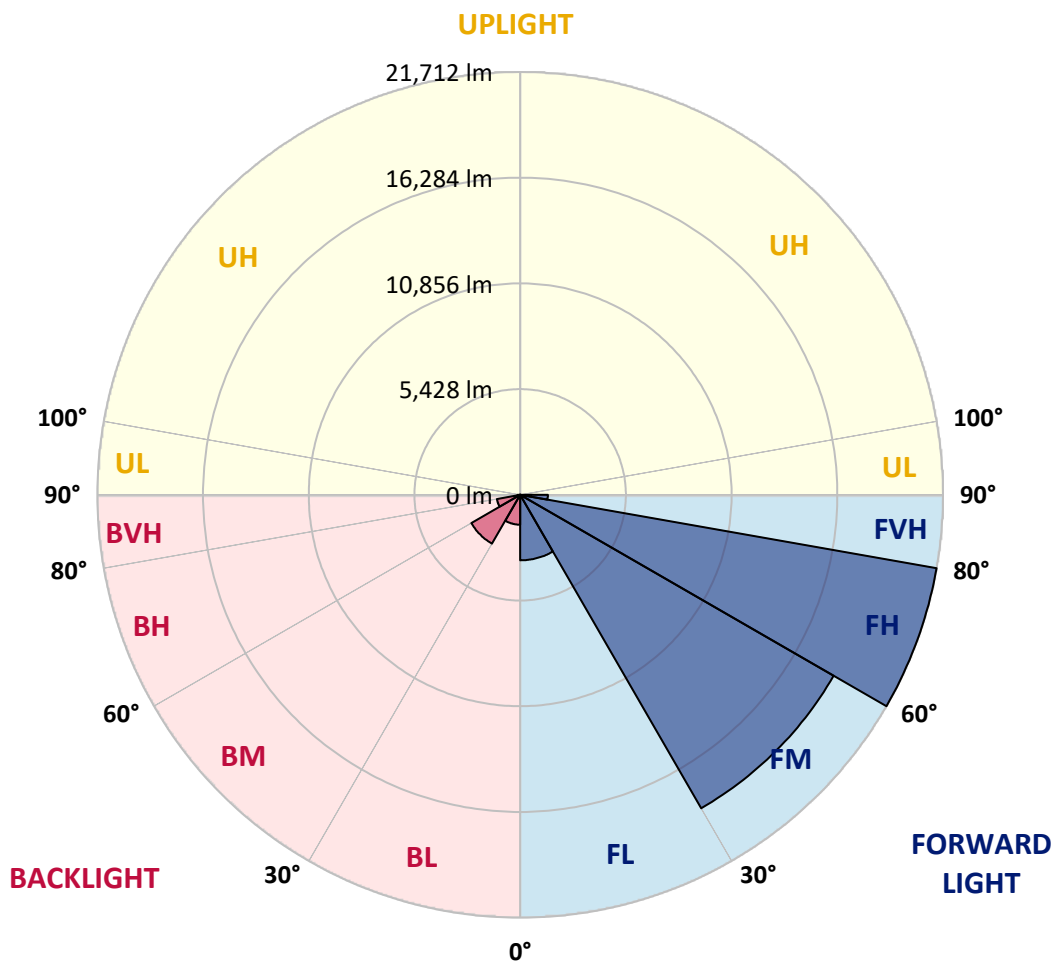
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-1200

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3364.0	6.6			
FM	(30°-60°)	18585.3	36.5			
FH	(60°-80°)	21712.1	42.7			G5
FVH	(80°-90°)	1421.5	2.8			G5
BL	(0°-30°)	1534.8	3.0	B3/2500		
BM	(30°-60°)	2895.3	5.7	B3/5000		
BH	(60°-80°)	1214.6	2.4	B3/2500		G3/2500
BVH	(80°-90°)	140.8	0.3			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 IV Short





REPORT NUMBER: P191266  
 CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7722.6	7722.6	7722.6	7722.6	7722.6	7722.6	7722.6	7722.6	7722.6	7722.6	7722.6
2.5°	7872.6	7870.0	7849.3	7833.8	7820.9	7815.7	7826.1	7787.2	7753.7	7712.2	7668.2
5°	7813.1	7810.5	7776.9	7745.9	7714.8	7704.5	7701.9	7632.0	7590.7	7528.6	7445.9
7.5°	7748.4	7735.6	7691.6	7639.8	7585.5	7559.7	7533.8	7443.3	7396.8	7334.7	7238.9
10°	7681.2	7665.7	7624.4	7572.6	7520.8	7482.1	7438.1	7350.2	7301.0	7254.5	7143.3
12.5°	7611.4	7598.5	7588.1	7564.8	7528.6	7495.0	7461.4	7386.4	7334.7	7280.3	7151.0
15°	7601.0	7595.8	7619.1	7634.7	7613.9	7593.3	7557.0	7492.4	7438.1	7383.8	7215.7
17.5°	7683.8	7681.2	7740.7	7782.1	7771.8	7735.6	7686.4	7613.9	7570.0	7523.5	7314.0
20°	7864.9	7877.7	7950.2	8004.5	7952.7	7901.1	7820.9	7720.0	7696.7	7676.0	7414.9
22.5°	8206.2	8219.2	8270.9	8291.5	8157.1	8082.1	7970.8	7841.5	7826.1	7841.5	7536.4
25°	8739.0	8726.1	8718.3	8640.8	8395.1	8278.6	8136.3	8001.9	8009.7	8079.5	7707.1
27.5°	9445.0	9375.2	9266.6	9033.8	8643.3	8514.0	8340.7	8216.5	8265.7	8400.2	7963.2
30°	10176.9	10099.4	9848.5	9468.3	8969.1	8826.9	8633.0	8493.3	8622.7	8834.7	8304.5
32.5°	10854.5	10844.2	10477.0	9988.2	9419.2	9295.0	9101.1	8943.4	9152.8	9476.1	8816.6
35°	11594.2	11617.6	11177.9	10590.7	10027.0	9897.7	9758.0	9639.1	9918.3	10363.2	9558.9
37.5°	12385.6	12432.2	11912.4	11250.3	10720.1	10665.8	10583.0	10531.3	10963.2	11578.7	10595.9
40°	13443.4	13396.9	12675.3	11995.1	11571.0	11568.3	11542.5	11604.6	12323.6	13166.7	11927.9
42.5°	14576.2	14439.2	13484.8	12794.3	12504.6	12592.5	12644.3	12897.7	13960.6	15096.0	13552.1
45°	15796.9	15489.1	14325.3	13639.9	13541.7	13727.9	13903.7	14454.6	15887.4	17291.8	15331.4
47.5°	16771.9	16474.5	15194.3	14527.0	14741.7	15023.7	15362.5	16234.0	18044.3	19559.9	17087.5
50°	17540.0	17346.1	16071.1	15561.5	16063.3	16497.8	17051.3	18248.7	20289.3	21768.6	18714.3
52.5°	18284.9	18140.1	16955.6	16621.9	17615.1	18215.1	18967.7	20410.8	22591.1	23941.0	20082.4
55°	18957.3	18853.9	17907.3	17943.5	19441.0	20222.0	21168.6	22873.0	25099.7	25878.2	21241.0
57.5°	19715.1	19583.2	18993.5	19601.3	21786.7	22800.6	24031.6	25640.3	27453.2	27600.6	22122.9
60°	20478.0	20364.3	20198.8	21515.1	24766.0	25831.7	26998.0	28322.2	29840.4	28937.7	22071.2
62.5°	21140.1	21153.1	21445.3	23524.7	27683.4	28917.1	30339.5	31648.2	31999.8	29170.5	20439.3
65°	22262.6	22466.9	23338.5	26369.6	31790.3	33440.5	35186.1	34976.6	32597.4	26995.5	16940.1
67.5°	23597.1	23956.6	25723.0	30161.1	36981.0	39171.5	39846.6	35729.3	30205.0	21944.4	12075.3
70°	23462.6	23956.6	26752.3	32987.8	41258.7	42727.7	40679.4	32336.1	23985.0	14335.6	6413.9
72.5°	20835.0	21541.0	24654.9	31692.1	39911.2	39781.9	35315.4	24106.6	14250.3	5757.1	2506.1
75°	15879.7	16593.5	19272.9	25037.6	31544.7	30458.5	25058.3	13316.7	5407.9	2286.3	1580.3
77.5°	9134.6	9688.2	11757.2	15354.7	20012.5	18897.9	13947.7	5922.6	2632.8	1593.1	1233.7
80°	5100.1	5407.9	6664.8	7789.9	9807.1	8989.9	6240.6	3680.3	1965.6	1156.0	951.8
82.5°	4032.0	4306.1	5389.8	4913.9	4479.4	4132.8	3584.5	3276.8	1569.8	729.4	569.0
85°	3522.5	3783.7	4562.2	3869.0	3059.5	2806.1	2912.1	3225.1	1220.7	439.7	486.2
87.5°	3263.8	3613.1	4065.6	2982.0	2381.9	2110.3	2687.1	3535.4	393.1	274.2	196.5
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: P191266  
 CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-1200

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7722.6	7722.6	7722.6	7722.6	7722.6	7722.6	7722.6	7722.6	7722.6	7722.6	7722.6
2.5°	7629.5	7588.1	7520.8	7461.4	7368.3	7319.1	7264.8	7226.0	7195.0	7169.1	7210.5
5°	7394.1	7316.6	7174.3	7021.7	6840.7	6698.4	6579.4	6468.2	6390.7	6338.9	6375.1
7.5°	7171.7	7045.0	6822.6	6545.9	6235.5	5971.7	5754.4	5563.0	5431.2	5345.8	5379.4
10°	7045.0	6887.2	6543.3	6108.8	5651.0	5239.8	4898.4	4603.6	4399.2	4282.9	4301.0
12.5°	7014.0	6809.7	6333.8	5736.3	5110.5	4538.9	4057.8	3649.2	3362.1	3212.2	3217.3
15°	7037.2	6776.0	6137.2	5379.4	4588.0	3866.4	3266.5	2769.8	2436.3	2265.5	2263.0
17.5°	7076.1	6750.1	5930.4	4994.0	4057.8	3219.9	2550.0	2063.8	1769.0	1631.9	1621.6
20°	7117.4	6708.8	5697.5	4577.7	3507.0	2619.9	1996.6	1616.5	1430.2	1355.2	1350.0
22.5°	7176.9	6672.6	5457.0	4138.0	2966.5	2133.7	1642.2	1386.2	1288.0	1249.1	1244.0
25°	7272.6	6654.5	5201.0	3680.3	2480.2	1784.5	1430.2	1272.4	1215.6	1189.7	1187.1
27.5°	7433.0	6680.3	4960.5	3235.4	2084.6	1549.2	1311.2	1215.6	1174.1	1150.9	1148.3
30°	7639.8	6760.5	4707.0	2813.8	1776.8	1388.9	1238.8	1176.7	1143.1	1119.8	1119.8
32.5°	7983.8	6895.0	4440.6	2449.1	1556.9	1277.7	1184.5	1143.1	1114.7	1096.6	1093.9
35°	8490.7	7148.5	4192.4	2146.6	1399.2	1197.5	1137.9	1106.9	1086.3	1075.8	1075.8
37.5°	9227.8	7549.3	3972.5	1929.4	1303.4	1143.1	1093.9	1070.7	1057.8	1057.8	1057.8
40°	10218.4	8102.8	3794.0	1784.5	1249.1	1104.4	1060.4	1042.3	1034.5	1037.1	1037.1
42.5°	11441.6	8821.7	3675.1	1683.7	1223.3	1081.1	1037.1	1021.6	1013.8	1011.2	1013.8
45°	12835.7	9639.1	3662.2	1608.7	1197.5	1065.5	1021.6	1006.1	990.5	980.2	980.2
47.5°	14190.9	10469.2	3768.1	1582.8	1169.0	1047.4	1008.6	993.1	969.9	946.5	946.5
50°	15388.2	11175.2	3910.4	1593.1	1158.7	1021.6	988.0	980.2	944.0	918.1	915.5
52.5°	16340.0	11718.4	4026.8	1624.1	1169.0	1003.5	962.1	964.6	925.9	897.4	894.9
55°	17103.0	12075.3	3995.7	1655.2	1192.2	993.1	938.9	944.0	913.0	884.5	884.5
57.5°	17436.6	11943.4	3651.8	1629.4	1210.4	995.7	920.8	941.4	915.5	889.7	889.7
60°	16720.2	10771.8	3007.8	1515.5	1187.1	988.0	913.0	951.8	949.2	923.3	920.8
62.5°	14552.9	8674.3	2332.8	1347.4	1106.9	949.2	892.2	949.2	977.6	969.9	967.3
65°	11216.7	6178.6	1782.0	1166.4	998.3	884.5	838.0	889.7	928.4	938.9	936.2
67.5°	7280.3	3786.2	1373.3	995.7	876.8	809.5	768.1	791.4	799.1	799.1	794.0
70°	3579.4	2038.0	1093.9	838.0	752.6	729.4	706.0	693.2	680.2	669.8	669.8
72.5°	1766.4	1331.9	900.0	708.6	649.2	638.8	633.6	618.1	607.7	594.8	589.6
75°	1306.1	1083.6	765.6	597.4	558.6	548.3	558.6	545.7	543.1	532.8	527.6
77.5°	1073.3	923.3	659.5	512.1	478.4	460.3	475.9	478.4	481.1	465.5	460.3
80°	871.6	781.0	550.9	424.1	393.1	380.2	390.6	411.2	416.3	393.1	382.8
82.5°	628.5	638.8	444.9	331.0	305.1	294.8	315.5	341.4	346.6	312.9	305.1
85°	527.6	532.8	341.4	235.4	209.5	194.0	227.6	253.5	271.6	237.9	230.2
87.5°	219.8	312.9	196.5	131.9	116.4	100.9	121.5	134.5	163.0	150.0	147.4
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)