

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: P194024

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194024  
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-06-LED-E1-T3R-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23998 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 249  
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

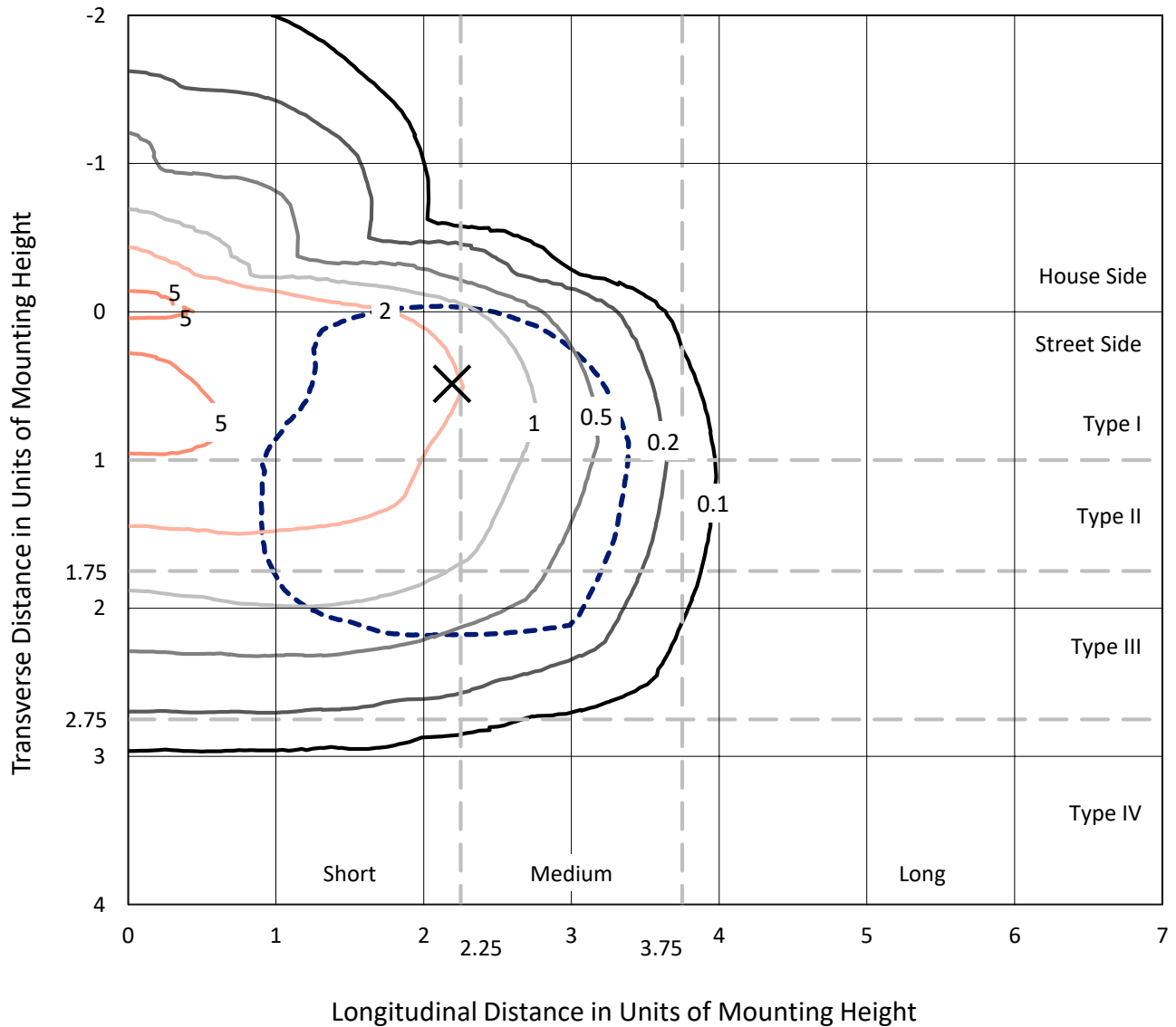


REPORT NUMBER: P194024

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-8030-800

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

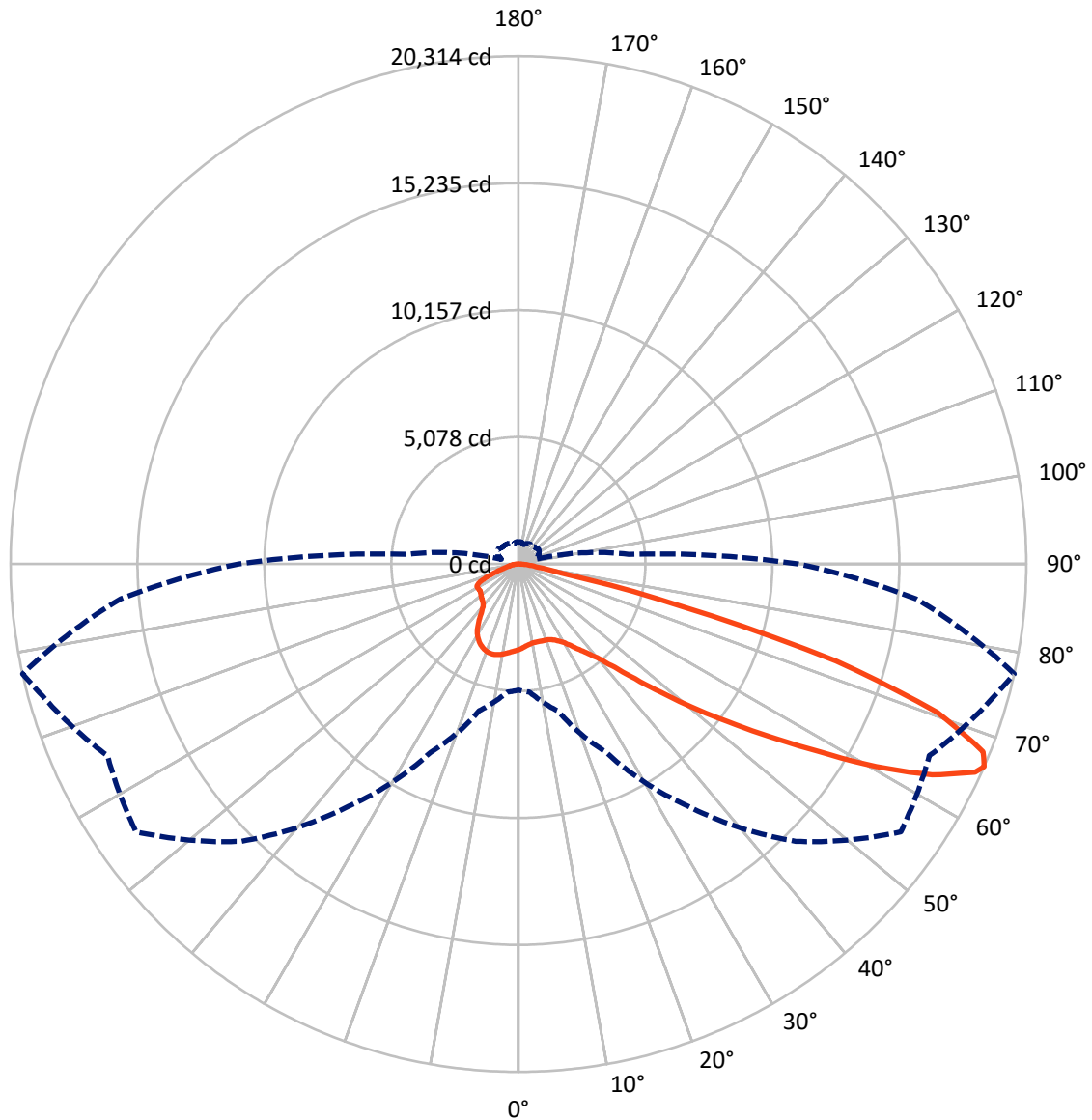


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Short - Full Cutoff

REPORT NUMBER: P194024

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-8030-800

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P194024

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-8030-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4099.9	0.0	4099.9
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	19898.1	0.0	19898.1
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	23998.0	0.0	23998.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.5	1.3
10°-20°	862.0	3.6
20°-30°	1471.1	6.1
30°-40°	2354.9	9.8
40°-50°	3638.1	15.2
50°-60°	5160.1	21.5
60°-70°	6902.8	28.8
70°-80°	2997.8	12.5
80°-90°	305.7	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°	23998.0	100.0
0°-180°	23998.0	100.0



REPORT NUMBER: P194024

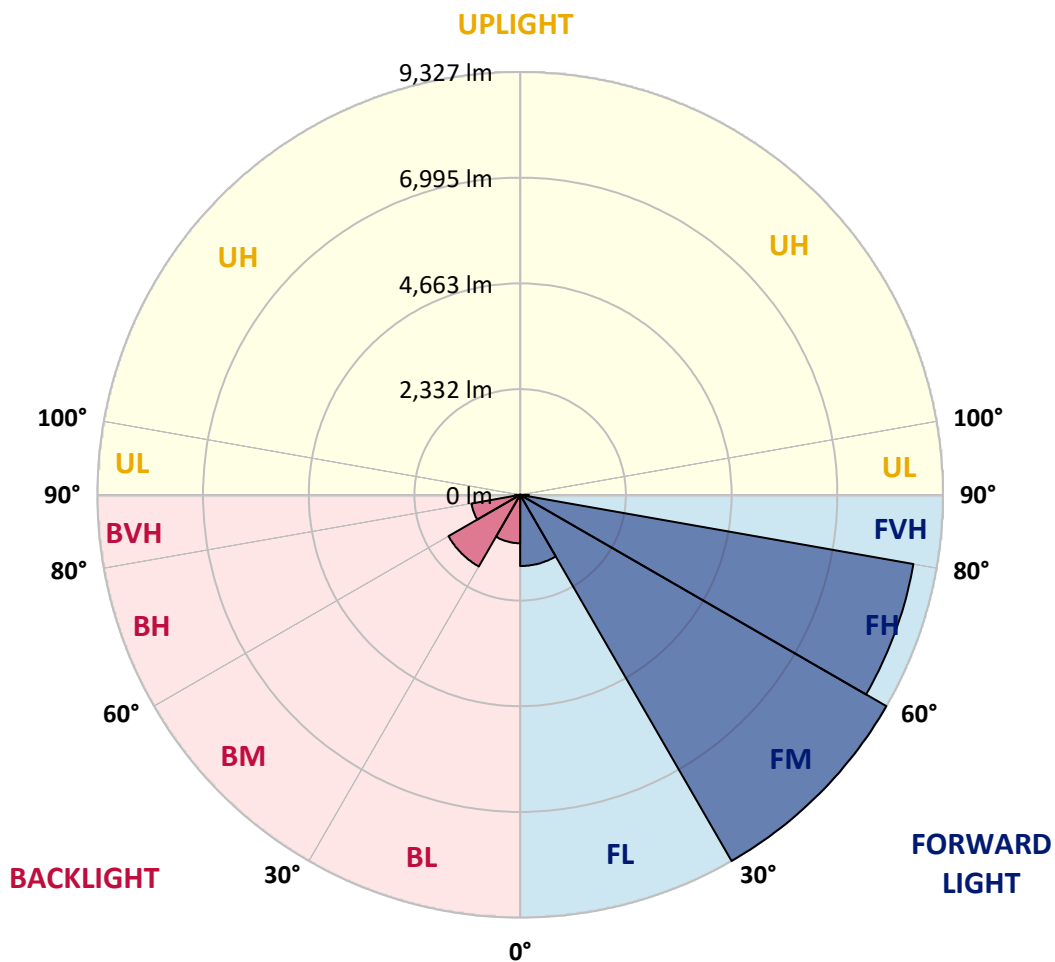
CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-8030-800

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1570.8	6.5			
FM (30°-60°)	9326.9	38.9			
FH (60°-80°)	8808.7	36.7			G4/12000
FVH (80°-90°)	191.7	0.8			G2/225
BL (0°-30°)	1067.8	4.4	B3/2500		
BM (30°-60°)	1826.3	7.6	B2/2500		
BH (60°-80°)	1091.9	4.5	B3/2500		G3/2500
BVH (80°-90°)	114.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





REPORT NUMBER: P194024

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-8030-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8
2.5°	3025.2	3045.6	3062.7	3078.5	3110.3	3162.4	3222.5	3271.3	3341.6	3355.2	3392.6
5°	2747.4	2747.4	2761.0	2784.8	2827.9	2906.2	2987.8	3096.7	3249.7	3286.0	3385.8
7.5°	2612.5	2613.6	2621.6	2642.0	2679.4	2750.8	2840.4	2968.5	3176.0	3236.1	3406.2
10°	2662.4	2651.0	2634.0	2623.8	2629.5	2671.5	2756.5	2899.4	3130.7	3207.8	3451.6
12.5°	2941.3	2919.8	2860.8	2782.6	2707.7	2677.1	2727.0	2866.5	3111.4	3201.0	3511.7
15°	3397.2	3388.1	3278.1	3115.9	2934.5	2782.6	2748.6	2854.0	3113.7	3208.9	3583.1
17.5°	3968.6	3956.2	3811.0	3575.2	3279.2	2983.3	2824.5	2864.2	3121.6	3222.5	3652.3
20°	4545.8	4507.2	4350.8	4069.6	3689.7	3256.5	2950.4	2890.3	3131.8	3237.3	3724.8
22.5°	4976.7	4944.9	4804.3	4531.0	4093.4	3572.9	3119.3	2935.7	3164.7	3280.4	3814.4
25°	5355.4	5357.7	5218.2	4954.0	4501.6	3908.5	3337.1	3057.0	3248.6	3368.8	3936.9
27.5°	5823.7	5796.5	5666.1	5404.1	4905.2	4247.6	3600.1	3223.7	3373.3	3494.7	4097.9
30°	6383.8	6364.6	6213.7	5916.7	5353.1	4611.6	3900.6	3417.6	3534.4	3660.2	4308.8
32.5°	7042.6	7033.6	6877.1	6495.0	5870.2	5040.2	4253.2	3673.8	3774.7	3905.1	4611.6
35°	7815.9	7817.1	7632.3	7173.0	6436.0	5539.1	4653.5	4003.8	4067.3	4203.4	4972.1
37.5°	8292.2	8350.0	8280.8	7812.5	7076.6	6097.0	5172.8	4441.5	4400.6	4537.9	5358.8
40°	8394.2	8464.5	8683.4	8445.3	7793.3	6711.5	5633.2	4862.1	4811.1	4978.9	5856.6
42.5°	8251.4	8348.9	8811.5	8979.3	8554.1	7469.0	6252.3	5486.9	5422.3	5647.9	6475.7
45°	8166.3	8238.9	8774.1	9257.1	9214.0	8325.1	7040.4	6271.6	6247.8	6543.7	7190.0
47.5°	8018.9	8084.7	8599.5	9321.8	9601.8	9109.7	7987.2	7230.9	7277.3	7665.1	7996.2
50°	8098.3	8125.5	8404.4	9157.3	9714.1	9684.6	9045.1	8342.1	8500.8	8985.0	8909.0
52.5°	8086.9	8157.2	8381.8	8887.5	9728.8	10039.5	10087.1	9581.4	9915.9	10471.5	9921.6
55°	6538.0	6667.3	8115.3	8819.4	9781.0	10387.6	11014.7	10887.7	11511.3	12158.8	11064.6
57.5°	6243.2	6324.9	7127.7	8962.3	10057.7	11052.1	12046.5	12325.4	13368.6	14120.4	12457.0
60°	6185.4	6286.3	7117.5	9136.9	10618.9	12135.0	13576.1	14066.0	15628.5	16451.7	14071.6
62.5°	6005.1	6114.0	7050.6	9114.3	11416.1	13632.8	15534.4	15916.5	17771.5	18572.1	15422.1
65°	5433.6	5535.7	6505.2	8748.0	11953.5	15231.6	17852.1	17612.8	19463.3	20065.4	16095.6
66°	5042.4	5142.2	6075.4	8317.1	11828.8	15685.2	18673.0	18137.8	19842.0	20313.7	15964.1
67.5°	4326.9	4405.2	5240.9	7352.2	11165.5	15812.2	19363.5	18532.4	19881.7	20048.4	15212.3
70°	2733.8	2756.5	3406.2	5075.3	8452.1	13713.3	18312.4	17552.7	18242.1	17790.8	12752.9
72.5°	1186.1	1178.1	1635.1	2581.9	4785.0	9201.6	14813.2	14483.2	14309.8	13280.2	8927.2
75°	659.9	669.0	849.3	1198.5	1944.6	4519.7	9690.3	9273.0	7829.5	6680.9	4048.0
77.5°	529.5	542.0	704.1	850.4	873.1	1576.1	4534.4	3689.7	2221.3	1782.5	1124.8
80°	418.4	441.1	614.6	662.2	588.5	649.7	1465.0	1171.3	878.8	806.2	582.8
82.5°	331.1	347.0	527.3	501.2	411.6	437.7	701.9	683.7	571.5	520.5	336.8
85°	238.1	267.6	433.1	377.6	269.9	294.8	466.0	446.8	327.7	267.6	148.5
87.5°	97.5	127.0	306.2	250.6	150.8	137.2	232.4	218.8	155.3	113.4	73.7
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: P194024

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-8030-800

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8
2.5°	3416.4	3443.6	3478.8	3500.3	3511.7	3519.6	3532.1	3531.0	3534.4	3535.5	3540.0
5°	3439.1	3484.5	3535.5	3549.1	3549.1	3536.6	3524.1	3503.7	3495.8	3493.5	3495.8
7.5°	3498.1	3548.0	3592.2	3576.3	3542.3	3492.4	3427.8	3371.1	3340.5	3330.3	3328.0
10°	3572.9	3633.0	3651.1	3591.0	3491.3	3371.1	3242.9	3150.0	3096.7	3081.9	3077.4
12.5°	3663.6	3720.3	3695.4	3568.4	3383.5	3189.6	3012.8	2864.2	2753.1	2717.9	2715.7
15°	3763.4	3807.6	3720.3	3498.1	3222.5	2936.8	2621.6	2365.3	2227.0	2182.7	2179.3
17.5°	3856.4	3879.1	3705.6	3375.6	2985.5	2522.9	2104.5	1907.2	1859.6	1870.9	1873.2
20°	3935.8	3935.8	3655.7	3199.9	2612.5	1977.5	1713.3	1709.9	1743.9	1777.9	1784.8
22.5°	4023.1	3970.9	3568.4	2951.5	2084.1	1618.1	1579.5	1611.3	1649.8	1687.2	1692.9
25°	4130.8	3999.2	3447.0	2575.1	1638.5	1469.5	1484.3	1510.3	1529.6	1553.4	1556.8
27.5°	4251.0	4035.5	3287.2	2056.9	1421.9	1376.5	1387.9	1397.0	1394.7	1403.8	1406.0
30°	4395.0	4077.5	3068.3	1607.9	1332.3	1297.2	1276.8	1268.8	1268.8	1283.6	1289.2
32.5°	4587.7	4139.9	2754.2	1377.7	1289.2	1240.5	1174.7	1145.2	1156.6	1206.5	1217.8
35°	4799.8	4206.8	2329.0	1299.4	1280.2	1214.4	1112.4	1057.9	1059.1	1105.5	1120.3
37.5°	5031.1	4291.8	1863.0	1284.7	1300.6	1215.5	1079.5	1004.6	974.0	974.0	979.7
40°	5327.0	4379.1	1508.1	1294.9	1343.7	1229.1	1062.5	962.7	876.5	878.8	883.3
42.5°	5712.6	4453.9	1317.6	1316.5	1395.8	1247.3	1061.3	907.1	832.3	883.3	929.8
45°	6141.2	4491.4	1233.7	1335.7	1437.8	1258.6	1043.2	898.0	837.9	989.9	1078.3
47.5°	6634.4	4469.8	1187.2	1342.5	1448.0	1258.6	1022.8	919.6	877.6	1146.4	1249.6
50°	7175.3	4407.5	1141.8	1328.9	1444.6	1256.4	1042.1	941.1	892.4	1173.6	1245.0
52.5°	7811.4	4355.3	1094.2	1299.4	1420.8	1243.9	1064.7	932.1	845.9	1067.0	1116.9
55°	8537.1	4370.0	1040.9	1257.5	1383.4	1220.1	1056.8	895.8	797.1	940.0	970.6
57.5°	9464.6	4545.8	977.4	1204.2	1332.3	1180.4	1028.4	878.8	782.4	852.7	870.8
60°	10499.9	4851.9	898.0	1150.9	1268.8	1116.9	1006.9	886.7	789.2	845.9	855.0
62.5°	11259.6	5030.0	830.0	1072.7	1182.7	1046.6	979.7	896.9	807.3	869.7	867.4
65°	11466.0	4737.4	745.0	958.1	1065.9	972.9	945.7	908.3	815.3	889.0	878.8
66°	11176.8	4422.2	707.6	904.8	1006.9	936.6	928.7	907.1	811.9	891.2	874.2
67.5°	10474.9	3775.9	642.9	826.6	912.8	882.2	901.4	896.9	802.8	889.0	865.2
70°	8542.8	2576.2	549.9	688.3	759.7	776.7	849.3	860.6	773.3	849.3	797.1
72.5°	5968.8	1569.3	486.4	534.1	614.6	662.2	777.9	810.7	733.6	741.6	691.7
75°	2884.6	833.4	441.1	413.9	477.4	553.3	691.7	742.7	671.3	620.2	602.1
77.5°	899.2	509.1	374.2	333.4	374.2	446.8	578.3	650.9	597.6	519.3	512.5
80°	483.0	374.2	288.0	267.6	295.9	350.4	454.7	543.1	513.7	466.0	416.1
82.5°	318.6	242.7	213.2	207.5	225.6	267.6	337.9	450.2	450.2	399.1	290.3
85°	164.4	148.5	146.3	146.3	157.6	178.0	230.2	347.0	369.6	210.9	174.6
87.5°	81.6	85.0	79.4	82.8	88.4	87.3	110.0	174.6	208.6	128.1	106.6
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)