

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: P191514

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191514  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
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-T4FT-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24138.6 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

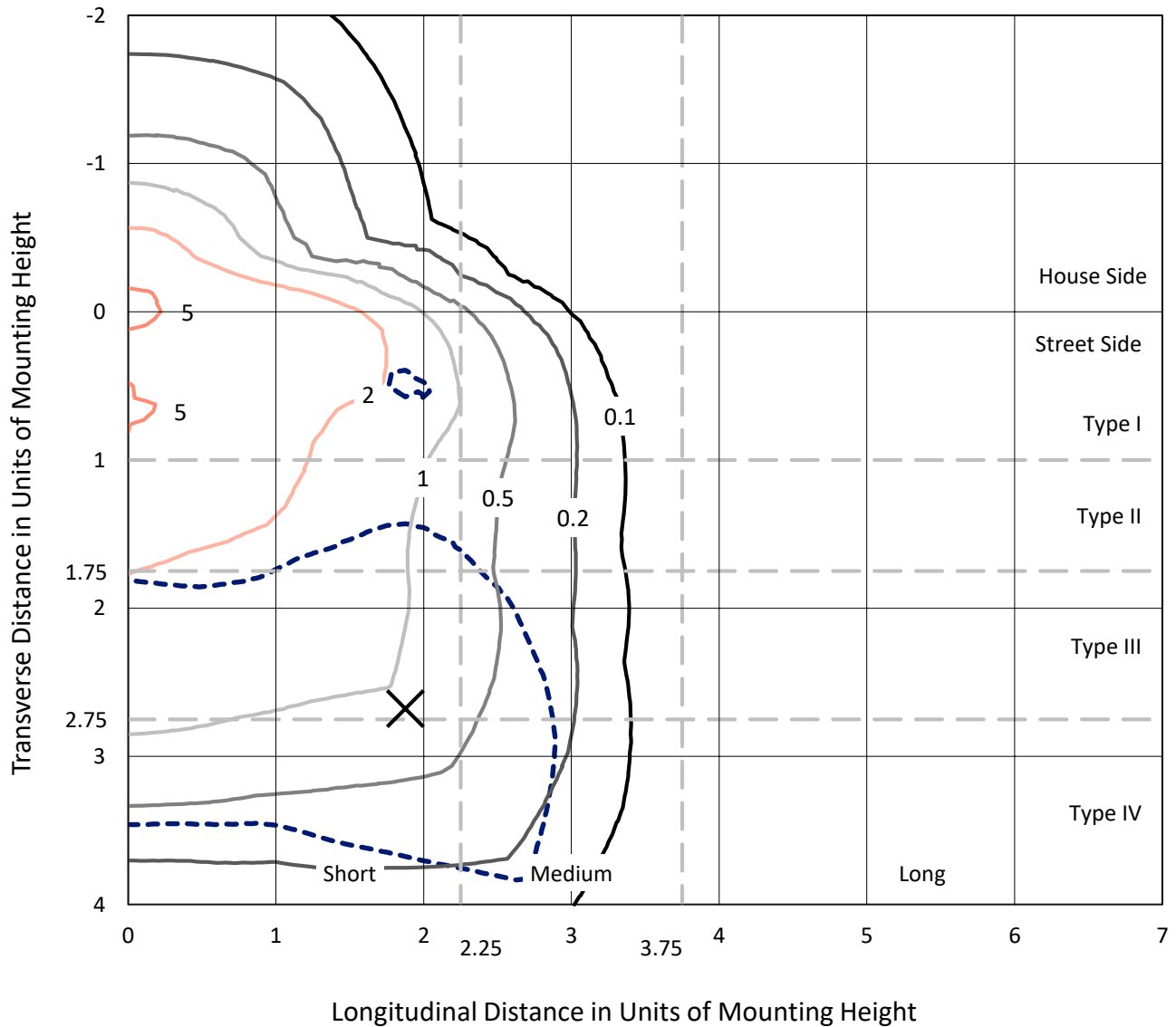
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P191514  
 CATALOG NUMBER: GLEON-AF-06-LED-E1-T4FT-600

### Iso-Footcandle Lines of Horizontal Illumination

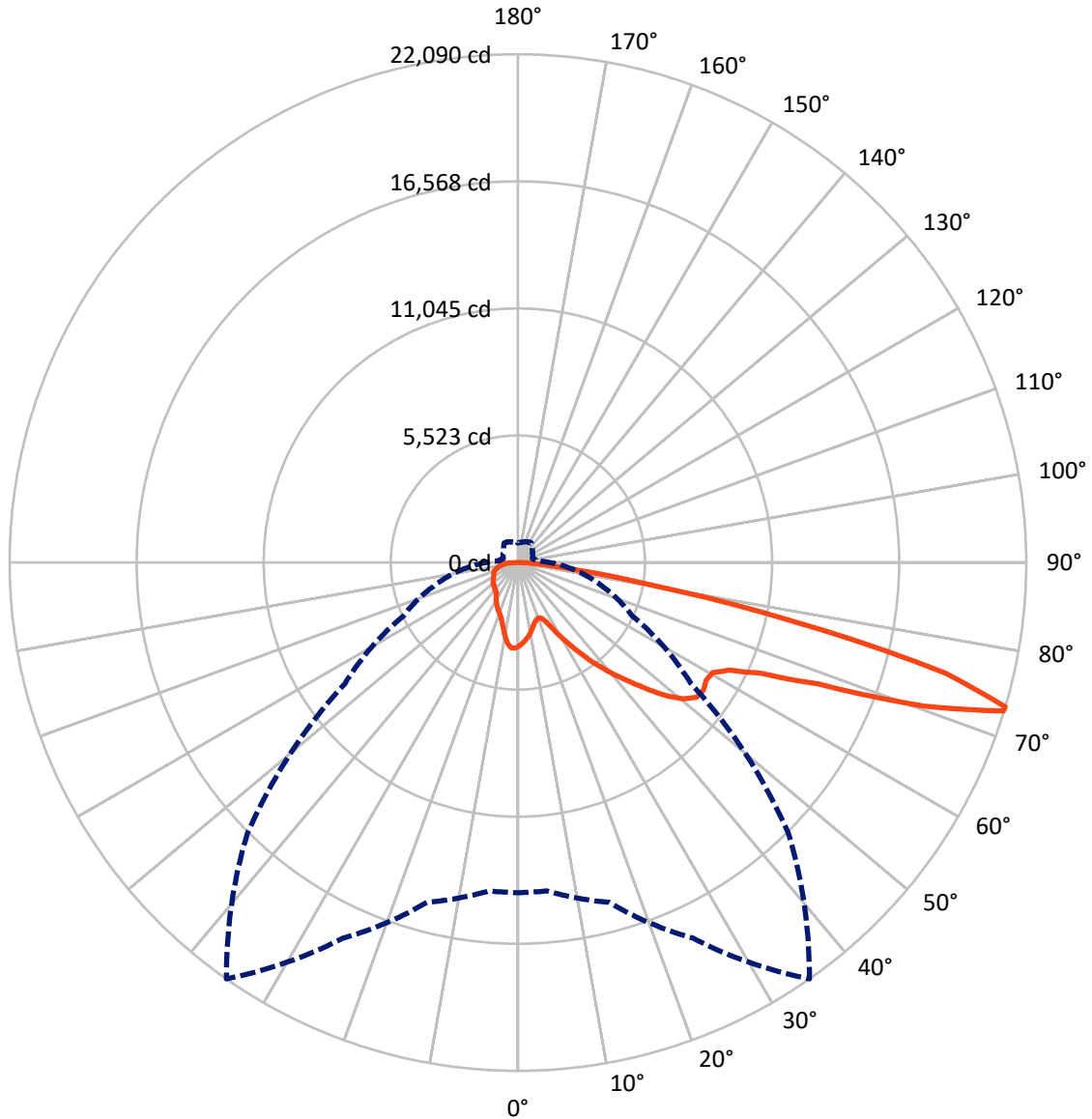
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191514  
CATALOG NUMBER: GLEON-AF-06-LED-E1-T4FT-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P191514

CATALOG NUMBER: GLEON-AF-06-LED-E1-T4FT-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4603.9	0.0	4603.9
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	19534.7	0.0	19534.7
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	24138.6	0.0	24138.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.8	1.4
10°-20°	823.2	3.4
20°-30°	1330.8	5.5
30°-40°	2231.5	9.2
40°-50°	3439.8	14.3
50°-60°	4614.9	19.1
60°-70°	6148.0	25.5
70°-80°	4689.0	19.4
80°-90°	531.5	2.2
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°	24138.6	100.0
0°-180°	24138.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P191514

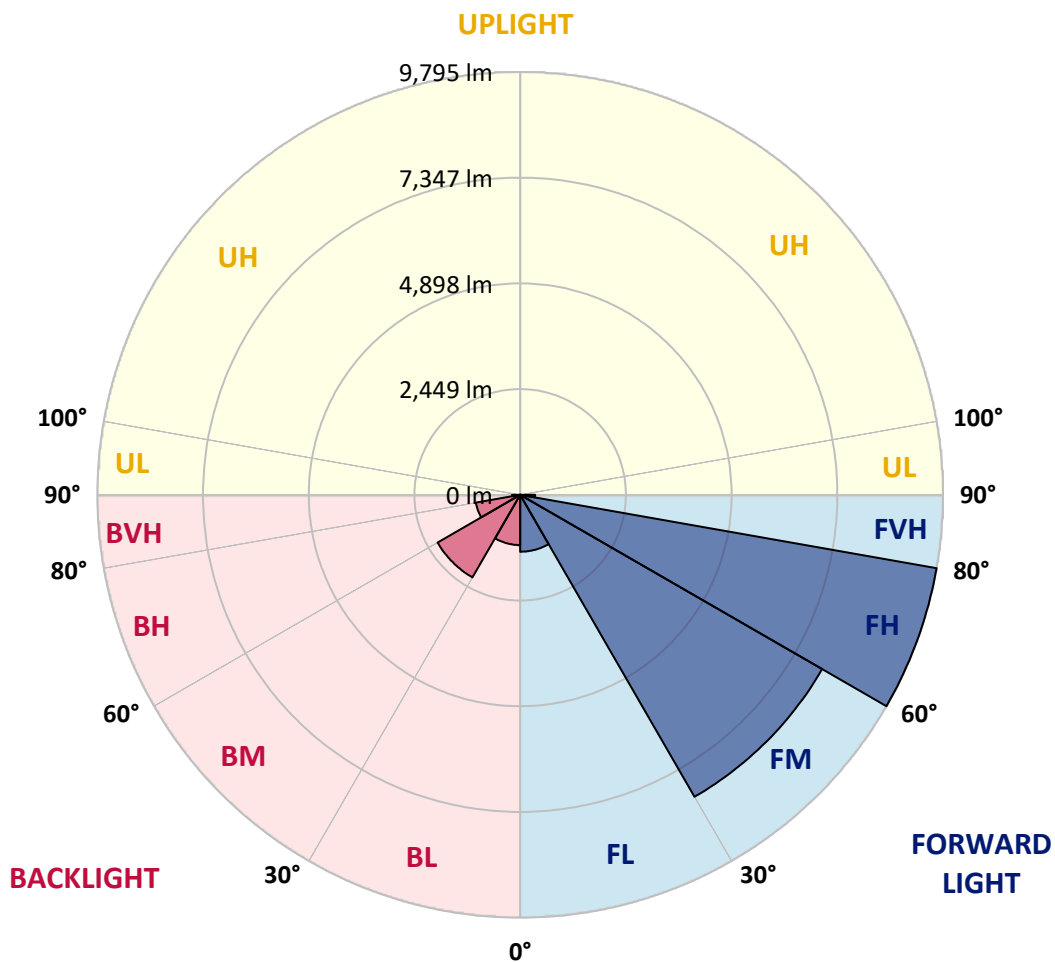
CATALOG NUMBER: GLEON-AF-06-LED-E1-T4FT-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1318.8	5.5			
FM	(30°-60°)	8076.9	33.5			
FH	(60°-80°)	9795.4	40.6			G4/12000
FVH	(80°-90°)	343.6	1.4			G3/500
BL	(0°-30°)	1165.0	4.8	B3/2500		
BM	(30°-60°)	2209.3	9.2	B2/2500		
BH	(60°-80°)	1041.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	187.9	0.8			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 IV Short





REPORT NUMBER: P191514

CATALOG NUMBER: GLEON-AF-06-LED-E1-T4FT-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3643.2	3643.2	3643.2	3643.2	3643.2	3643.2	3643.2	3643.2	3643.2	3643.2	3643.2
2.5°	3499.5	3506.5	3498.4	3508.8	3526.2	3544.7	3557.5	3576.0	3596.9	3625.8	3632.8
5°	3334.9	3345.4	3345.4	3363.9	3397.5	3427.7	3455.4	3485.6	3529.7	3579.5	3599.3
7.5°	3154.1	3159.9	3170.3	3198.2	3246.8	3289.7	3329.1	3377.8	3438.1	3504.1	3538.9
10°	2936.2	2944.3	2960.5	2999.9	3066.0	3125.1	3181.9	3249.1	3325.6	3408.0	3451.9
12.5°	2782.0	2779.7	2786.6	2815.6	2873.6	2945.5	3027.7	3113.6	3207.5	3303.6	3356.9
15°	2729.8	2717.1	2690.5	2683.5	2714.8	2786.6	2881.7	2987.2	3099.6	3215.5	3281.6
17.5°	2762.3	2740.3	2667.2	2613.9	2609.2	2663.8	2764.6	2882.9	3012.7	3154.1	3236.4
20°	2966.4	2914.2	2734.4	2610.5	2567.5	2594.2	2682.3	2807.5	2960.5	3148.3	3253.8
22.5°	3454.3	3377.8	2996.4	2765.8	2620.9	2588.4	2654.5	2787.7	2966.4	3220.1	3354.7
25°	4164.8	4055.9	3446.2	3152.9	2853.8	2681.2	2696.2	2833.0	3048.6	3387.1	3549.3
27.5°	4725.9	4655.2	4033.9	3698.9	3278.1	2931.6	2831.8	2946.6	3216.7	3660.6	3826.4
30°	5059.7	5016.9	4662.2	4317.9	3819.5	3330.3	3091.5	3159.9	3479.8	4039.7	4176.5
32.5°	5446.9	5421.4	5247.5	4931.1	4403.7	3854.3	3503.0	3478.6	3832.2	4495.3	4557.9
35°	5848.0	5839.9	5737.8	5510.6	5030.8	4545.1	4048.9	3884.3	4215.9	4968.2	4928.8
37.5°	6221.3	6207.4	6148.2	6016.1	5686.9	5286.9	4605.3	4300.5	4629.7	5420.3	5245.2
40°	6908.6	6799.7	6596.8	6497.2	6349.9	5911.7	5047.0	4688.8	5058.6	5851.5	5518.8
42.5°	7746.7	7569.3	7191.4	7054.7	7033.8	6404.4	5348.4	5065.6	5491.0	6279.2	5787.8
45°	8406.3	8239.4	7913.6	7740.9	7817.4	6850.7	5651.0	5467.8	5936.1	6727.8	6064.8
47.5°	9109.9	8847.9	8416.7	8468.9	8635.8	7272.6	5959.3	5900.2	6424.1	7229.7	6409.0
50°	9135.4	8934.9	8745.9	9057.7	9317.3	7661.0	6345.3	6353.3	7021.0	7861.5	6866.9
52.5°	8605.7	8562.7	8862.9	9353.4	9727.8	7968.1	6784.6	6821.6	7785.0	8587.1	7370.0
55°	8420.2	8371.5	8718.1	9250.1	9783.4	8222.0	7261.0	7328.2	8708.8	9352.1	7860.4
57.5°	8872.3	8764.4	8787.7	9201.4	9647.8	8500.2	7780.4	7915.9	9712.6	10021.0	8175.6
60°	10135.7	9905.0	9466.9	9456.5	9720.8	8917.5	8380.7	8546.5	10755.9	10340.9	8052.8
62.5°	11908.1	11677.4	10856.8	10322.4	10283.0	9606.0	9118.0	9162.1	11358.6	9907.4	7302.7
65°	13826.5	13620.2	12703.3	11948.7	11584.7	10746.6	9974.6	9436.8	11161.6	8714.6	5990.6
67.5°	16155.3	15933.9	15145.7	14449.0	14098.9	12587.4	10576.2	9173.6	9910.9	6751.0	4306.3
70°	17783.9	17557.9	17247.3	17811.7	18668.3	15243.0	10653.9	8103.7	7402.5	4487.2	2591.9
72.5°	15659.2	15553.7	16120.5	18498.0	22065.9	16854.2	9630.4	5900.2	4299.4	2382.0	1500.0
73°	14347.0	14323.9	15290.6	18016.9	22090.2	16606.2	9181.8	5484.0	3687.3	2107.4	1371.3
75°	6478.6	6665.2	8784.2	13761.7	19192.3	13683.9	6462.4	3146.0	2083.0	1455.9	1035.1
77.5°	1556.7	1621.7	2748.4	6535.4	12120.2	8154.8	2928.1	1555.6	1331.9	1028.2	755.8
80°	663.1	685.1	1058.3	2414.6	5706.5	3283.9	1349.3	1042.1	921.6	717.5	529.8
82.5°	368.6	391.8	600.5	1095.4	2303.3	1119.7	823.0	725.7	606.2	432.4	344.2
85°	208.7	221.4	351.2	612.0	976.0	449.8	492.7	482.2	342.0	222.6	169.2
87.5°	98.5	106.7	169.2	284.0	382.5	176.2	250.4	275.9	214.4	135.6	88.1
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: P191514

CATALOG NUMBER: GLEON-AF-06-LED-E1-T4FT-600

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3643.2	3643.2	3643.2	3643.2	3643.2	3643.2	3643.2	3643.2	3643.2	3643.2
2.5°	3641.0	3661.9	3686.1	3698.9	3710.4	3724.4	3738.3	3738.3	3740.6	3741.7
5°	3615.4	3658.4	3696.5	3712.8	3716.3	3716.3	3712.8	3694.3	3678.0	3685.0
7.5°	3562.1	3624.7	3657.2	3651.4	3607.3	3556.3	3513.4	3461.3	3434.7	3430.0
10°	3485.6	3557.5	3563.2	3505.3	3396.4	3287.4	3197.0	3108.8	3067.1	3056.7
12.5°	3401.0	3467.1	3430.0	3310.6	3135.5	2976.8	2862.0	2772.7	2733.3	2722.9
15°	3332.6	3377.8	3283.9	3096.2	2875.9	2707.9	2612.7	2546.7	2518.9	2510.7
17.5°	3296.7	3306.0	3134.4	2880.5	2646.4	2506.1	2447.0	2415.7	2405.3	2399.4
20°	3314.1	3249.1	2991.8	2680.0	2458.6	2360.0	2346.1	2338.1	2335.7	2332.2
22.5°	3401.0	3231.7	2860.8	2489.9	2294.0	2251.1	2262.7	2261.5	2259.2	2256.9
25°	3556.3	3246.8	2733.3	2309.1	2156.1	2146.8	2167.6	2167.6	2158.3	2158.3
27.5°	3761.5	3278.1	2590.7	2137.5	2030.9	2032.0	2048.3	2043.7	2033.2	2026.3
30°	4011.9	3297.8	2423.8	1983.3	1913.7	1909.1	1913.7	1894.1	1862.8	1860.4
32.5°	4268.1	3273.4	2230.2	1846.5	1789.8	1779.3	1775.8	1748.0	1712.1	1701.7
35°	4499.9	3184.2	2033.2	1737.6	1671.5	1648.4	1664.5	1655.3	1622.8	1614.7
37.5°	4669.2	3018.4	1855.8	1641.4	1586.9	1581.1	1591.5	1595.0	1556.7	1548.6
40°	4782.7	2793.6	1703.9	1560.2	1570.6	1548.6	1513.9	1489.5	1478.0	1474.5
42.5°	4874.3	2559.4	1576.5	1521.9	1574.1	1510.4	1435.1	1395.6	1416.5	1425.8
45°	4979.8	2331.1	1469.8	1474.5	1556.7	1466.3	1380.6	1342.3	1350.4	1352.8
47.5°	5124.7	2052.9	1355.1	1398.0	1498.8	1436.2	1346.9	1292.5	1254.2	1236.8
50°	5325.2	1723.7	1235.6	1312.1	1442.1	1414.2	1294.7	1236.8	1166.2	1149.9
52.5°	5464.3	1416.5	1137.1	1240.3	1391.0	1370.1	1253.0	1177.7	1103.6	1089.6
55°	5389.0	1176.6	1051.4	1160.3	1323.8	1315.6	1218.3	1117.5	1059.5	1047.9
57.5°	5012.3	1024.7	985.3	1084.9	1241.5	1269.3	1171.9	1066.4	1024.7	1016.6
60°	4293.5	929.7	943.6	1034.0	1174.2	1222.9	1125.6	1038.6	1010.8	1004.9
62.5°	3331.4	865.9	912.3	996.9	1122.1	1190.5	1100.1	1035.1	1024.7	1017.7
65°	2386.7	814.9	878.6	959.8	1074.5	1160.3	1090.8	1030.5	1032.8	1027.0
67.5°	1621.7	769.7	838.1	918.1	1028.2	1133.6	1078.0	1014.3	1043.2	1036.2
70°	1134.9	725.7	790.5	864.7	970.3	1096.6	1054.9	989.9	987.7	959.8
72.5°	885.6	667.7	725.7	790.5	896.0	1044.4	1008.4	935.5	897.2	868.2
73°	845.1	653.8	709.4	774.4	879.8	1031.6	995.7	920.3	877.5	850.8
75°	699.0	593.5	644.5	702.5	810.3	971.4	933.1	852.0	797.5	781.2
77.5°	549.4	507.7	556.4	608.6	714.0	883.3	840.4	762.7	732.6	718.7
80°	406.8	420.7	463.7	510.0	619.0	789.4	751.2	673.5	807.9	774.4
82.5°	286.3	318.8	358.1	399.9	519.4	697.9	651.4	571.4	591.2	491.5
85°	169.2	208.7	245.7	281.7	374.4	578.4	537.9	455.5	373.3	355.9
87.5°	98.5	115.9	126.3	163.5	257.4	435.9	379.0	337.3	193.5	130.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)