

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: P269598

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27117.4 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

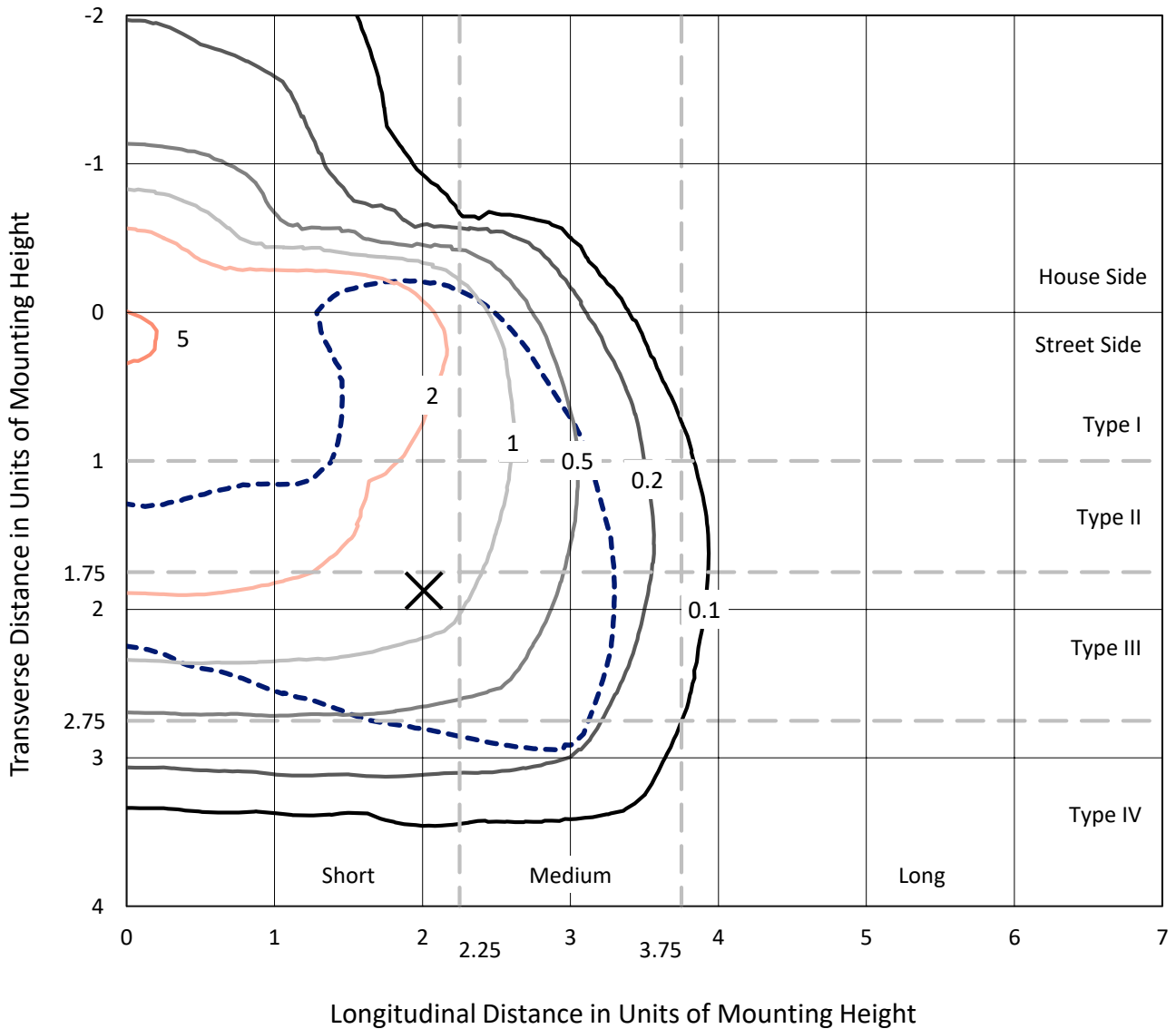


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

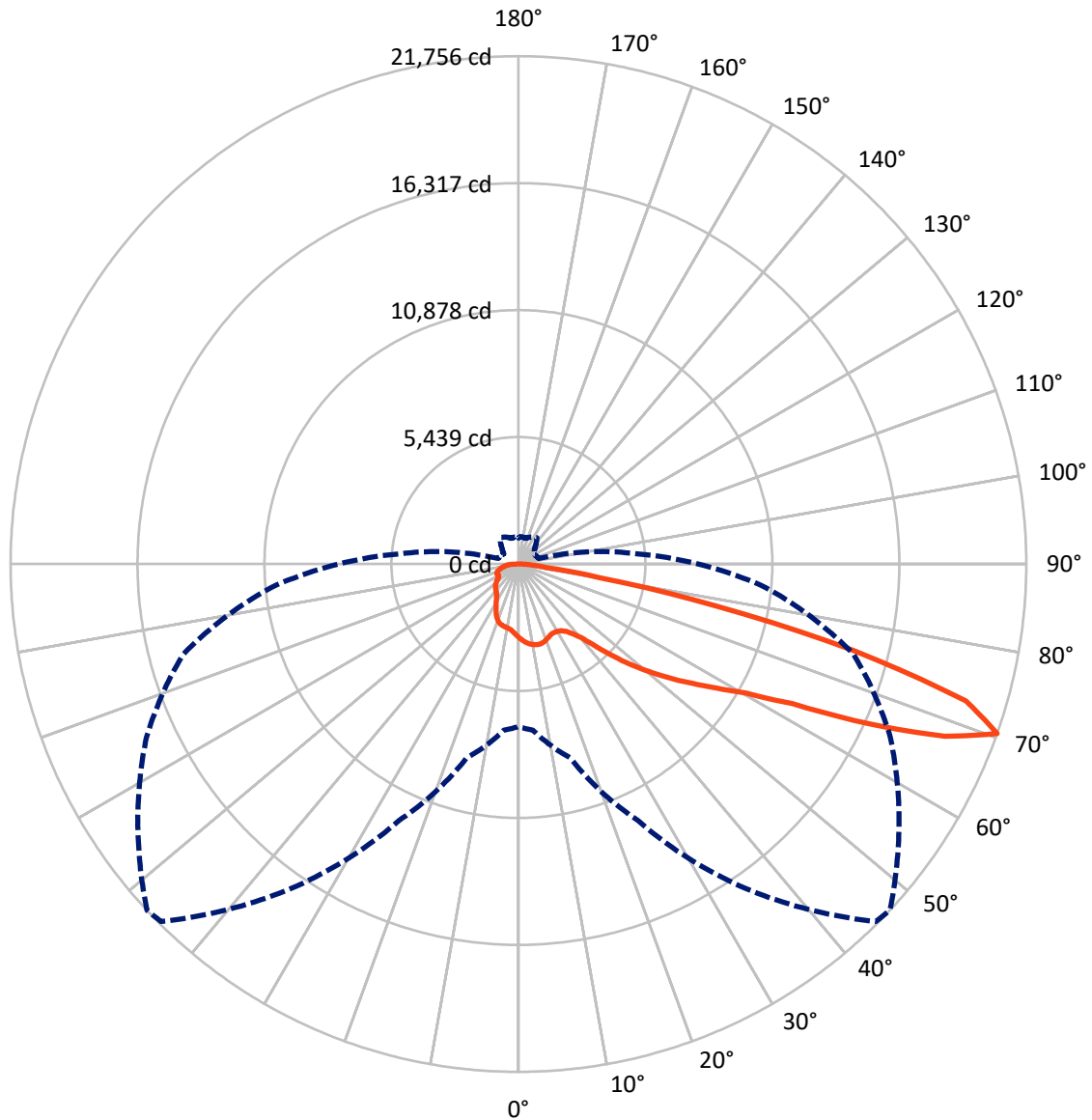


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5657.2	0.0	5657.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	21460.1	0.0	21460.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	27117.4	0.0	27117.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.5	1.1
10°-20°	884.5	3.3
20°-30°	1306.1	4.8
30°-40°	1898.4	7.0
40°-50°	3416.5	12.6
50°-60°	5918.8	21.8
60°-70°	8447.8	31.2
70°-80°	4336.6	16.0
80°-90°	607.2	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°	27117.4	100.0
0°-180°	27117.4	100.0



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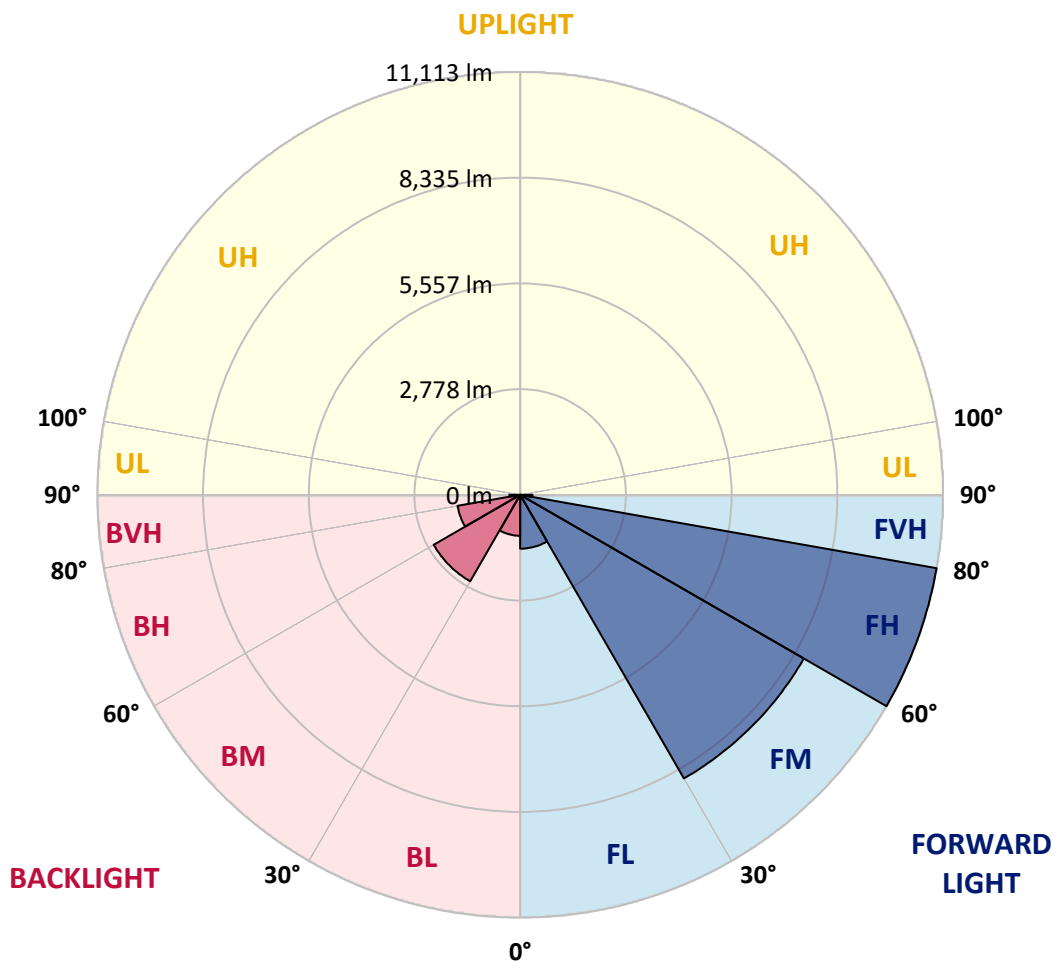
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1414.9	5.2			
FM (30°-60°)	8607.8	31.7			
FH (60°-80°)	11113.4	41.0			G4/12000
FVH (80°-90°)	324.0	1.2			G3/500
BL (0°-30°)	1077.2	4.0	B3/2500		
BM (30°-60°)	2625.9	9.7	B3/5000		
BH (60°-80°)	1671.0	6.2	B3/2500		G3/2500
BVH (80°-90°)	283.2	1.0			G3/500
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5
2.5°	3331.2	3324.5	3321.9	3316.6	3310.1	3277.0	3270.5	3246.7	3213.7	3179.5	3143.8
5°	3550.1	3548.8	3534.3	3507.9	3465.8	3393.2	3376.0	3318.0	3240.1	3164.9	3089.7
7.5°	3742.8	3730.9	3703.3	3650.4	3576.5	3477.6	3453.9	3373.3	3266.4	3163.7	3062.1
10°	3883.9	3877.4	3816.7	3744.0	3647.7	3538.2	3510.5	3420.8	3303.4	3172.9	3046.2
12.5°	3964.4	3951.3	3881.2	3794.3	3679.5	3572.6	3544.9	3453.9	3321.9	3172.9	3023.8
15°	3959.1	3949.8	3880.0	3785.0	3668.9	3575.3	3550.1	3459.2	3318.0	3159.7	2994.7
17.5°	3853.5	3857.5	3798.2	3704.5	3609.5	3538.2	3515.8	3431.4	3291.6	3133.3	2960.5
20°	3668.9	3687.4	3647.7	3564.7	3512.0	3463.1	3448.6	3377.4	3250.6	3095.0	2923.5
22.5°	3484.2	3501.4	3485.6	3415.5	3407.7	3378.6	3370.7	3319.2	3215.0	3071.2	2901.0
25°	3348.3	3364.2	3361.5	3300.8	3324.5	3323.2	3316.6	3291.6	3207.2	3071.2	2904.9
27.5°	3311.3	3316.6	3311.3	3255.9	3289.0	3315.4	3310.1	3306.1	3230.9	3109.6	2955.2
30°	3438.1	3430.1	3389.1	3277.0	3307.4	3344.3	3339.1	3341.8	3302.1	3209.7	3067.4
32.5°	3943.3	3907.6	3778.5	3463.1	3382.6	3402.4	3405.0	3448.6	3455.2	3364.2	3241.4
35°	4699.3	4659.7	4492.2	3961.7	3616.0	3547.4	3547.4	3613.5	3653.0	3585.8	3512.0
37.5°	5500.1	5456.6	5366.7	4653.1	4107.0	3799.6	3793.0	3839.0	3895.8	3911.6	3930.2
40°	6410.3	6364.1	6389.3	5428.7	4791.6	4236.1	4142.5	4109.6	4262.5	4364.1	4511.8
42.5°	7406.3	7385.2	7394.5	6292.8	5571.3	4889.3	4755.9	4585.8	4770.4	4951.2	5261.3
45°	8328.5	8347.1	8337.8	7217.7	6439.4	5686.0	5544.9	5215.1	5395.8	5705.9	6211.2
47.5°	9135.9	9059.4	9178.2	8228.3	7411.6	6577.8	6403.7	5961.8	6145.1	6527.8	7382.6
50°	10116.2	10105.7	9931.4	9576.7	8587.1	7473.7	7245.4	6733.5	7018.5	7550.2	8858.8
52.5°	11146.4	10955.2	10795.7	10625.4	9833.8	8391.8	8112.1	7502.6	8045.0	8713.7	10658.4
55°	11357.6	11271.8	11469.6	11755.9	11035.7	9345.6	9019.8	8467.1	9200.6	10043.6	12733.6
57.5°	11808.8	11807.4	12216.4	12726.9	12273.2	10357.5	10029.0	9631.9	10500.1	11567.4	14936.7
60°	12113.6	12199.3	12959.2	13950.0	13488.2	11526.4	11224.3	10976.3	11977.6	13270.5	16989.6
62.5°	12273.2	12389.2	13426.2	14446.1	15205.9	13472.4	13170.3	12812.7	13932.8	15138.5	18190.0
65°	11609.5	11837.9	13353.7	14874.8	16709.8	16626.8	16490.8	15862.9	16377.4	16615.0	17756.1
67.5°	9773.1	10006.7	11771.7	14475.0	17783.7	19669.0	19698.0	18625.5	17881.4	16741.5	14928.8
70°	6963.1	7146.5	8606.9	12135.9	16965.7	21657.1	21756.1	19898.5	17581.8	14847.0	10430.1
72.5°	3306.1	3418.2	4800.8	7898.4	13463.2	19843.1	20034.4	18273.2	14950.0	10992.1	5690.0
75°	1215.0	1249.4	1622.7	3360.2	7808.7	14633.3	14859.0	13099.1	9910.3	5472.4	2167.6
77.5°	728.3	750.7	910.3	1418.2	3071.2	8364.2	8698.0	7124.1	4331.2	2036.9	1066.0
80°	509.2	525.1	653.1	882.6	1451.2	3187.4	3484.2	2907.6	1725.6	1288.9	775.7
82.5°	344.3	352.2	459.2	596.4	964.4	1138.5	1228.3	1292.9	1163.7	959.1	492.1
85°	225.7	233.5	311.4	393.2	613.5	588.4	601.5	761.3	849.5	651.7	273.1
87.5°	129.3	134.6	187.3	209.8	300.8	249.3	252.0	401.1	543.6	439.4	166.2
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°	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5
2.5°	3134.5	3117.5	3079.2	3055.4	3032.9	3027.6	3018.5	3017.1	3015.9	3015.9	3011.8
5°	3064.7	3035.6	2976.3	2943.2	2915.5	2912.9	2911.6	2918.2	2920.8	2923.5	2919.5
7.5°	3019.8	2980.2	2906.3	2858.9	2825.9	2818.0	2831.2	2861.6	2881.3	2889.2	2885.3
10°	2992.2	2943.2	2857.6	2806.0	2778.4	2774.4	2791.6	2827.1	2868.1	2883.9	2882.7
12.5°	2960.5	2904.9	2814.0	2760.0	2744.1	2752.0	2774.4	2807.5	2849.7	2874.7	2876.1
15°	2928.7	2864.2	2770.5	2722.9	2716.4	2727.0	2748.1	2773.1	2806.0	2831.2	2833.9
17.5°	2890.6	2823.3	2729.6	2680.7	2675.5	2680.7	2682.1	2695.3	2716.4	2740.1	2746.7
20°	2849.7	2781.1	2683.3	2634.5	2610.8	2589.8	2566.0	2568.7	2575.3	2598.9	2604.2
22.5°	2820.6	2752.0	2647.8	2580.6	2517.2	2453.8	2406.3	2399.7	2402.3	2422.2	2428.7
25°	2823.3	2750.7	2638.5	2522.4	2383.9	2282.4	2219.1	2208.5	2207.1	2221.7	2230.9
27.5°	2874.7	2802.2	2672.8	2463.1	2238.8	2088.4	2021.1	2013.2	2002.6	2006.6	2017.1
30°	2989.5	2922.1	2756.0	2402.3	2081.8	1898.4	1828.5	1820.5	1806.1	1799.5	1807.4
32.5°	3176.8	3121.4	2877.4	2344.3	1924.8	1736.2	1664.9	1647.9	1638.5	1630.7	1637.3
35°	3488.2	3464.5	3039.5	2281.1	1786.3	1610.8	1546.3	1519.8	1506.5	1521.1	1531.7
37.5°	3976.3	3989.5	3252.0	2182.1	1679.4	1527.7	1473.6	1443.2	1423.5	1435.3	1447.2
40°	4667.6	4676.8	3486.9	2042.2	1587.0	1478.9	1420.8	1393.1	1365.5	1344.4	1343.1
42.5°	5575.2	5481.5	3717.6	1890.6	1480.1	1448.5	1383.8	1349.7	1307.5	1249.4	1237.4
45°	6651.8	6323.3	3893.2	1716.4	1360.2	1411.6	1343.1	1295.5	1229.6	1166.2	1159.6
47.5°	7891.9	7227.0	3979.0	1535.7	1248.0	1357.5	1292.9	1217.7	1134.6	1102.8	1098.9
50°	9406.4	8299.5	4019.8	1360.2	1150.4	1286.4	1220.3	1132.0	1061.9	1055.4	1051.5
52.5°	11130.7	9589.8	4033.0	1216.3	1069.9	1193.9	1161.0	1075.2	1019.8	1025.1	1025.1
55°	12935.5	10922.2	3853.5	1112.1	996.0	1098.9	1121.4	1052.8	1006.6	1027.8	1035.7
57.5°	14592.4	12103.0	3289.0	1031.7	926.2	1026.5	1106.9	1073.8	1042.3	1128.0	1133.2
60°	15864.2	12800.8	2456.4	959.1	874.7	1001.3	1145.1	1154.3	1162.2	1366.9	1394.4
62.5°	16130.8	12568.6	1688.6	902.3	851.0	1022.5	1215.0	1216.3	1207.1	1349.7	1366.9
65°	14907.7	11100.4	1228.3	870.6	831.1	1060.7	1274.4	1246.7	1186.0	1294.2	1262.6
67.5°	11839.1	8362.9	1022.5	847.0	802.0	1058.1	1337.8	1274.4	1174.2	1267.8	1216.3
70°	7684.7	5056.7	910.3	827.2	767.8	1007.9	1374.6	1271.8	1139.9	1179.5	1118.7
72.5°	3749.3	2261.3	835.2	798.1	732.2	938.0	1373.4	1248.0	1104.2	1101.6	1068.7
75°	1467.0	1035.7	766.6	754.7	671.6	858.8	1336.4	1213.7	1061.9	1019.8	1007.9
77.5°	858.8	738.8	679.4	690.0	598.9	779.6	1282.3	1154.3	1003.9	953.8	940.6
80°	625.3	552.7	579.1	596.4	511.9	700.5	1209.7	1081.7	939.3	964.4	945.9
82.5°	401.1	356.2	469.6	486.8	426.2	620.1	1130.5	1005.4	848.3	770.4	752.1
85°	204.5	225.7	349.6	370.7	328.5	509.2	1034.3	903.8	745.5	641.2	651.7
87.5°	114.8	154.4	223.0	249.3	232.2	391.8	839.0	745.5	608.2	494.7	435.4
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)