

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: P269360

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269360
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-05-LED-E1-T4W-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28156.7 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

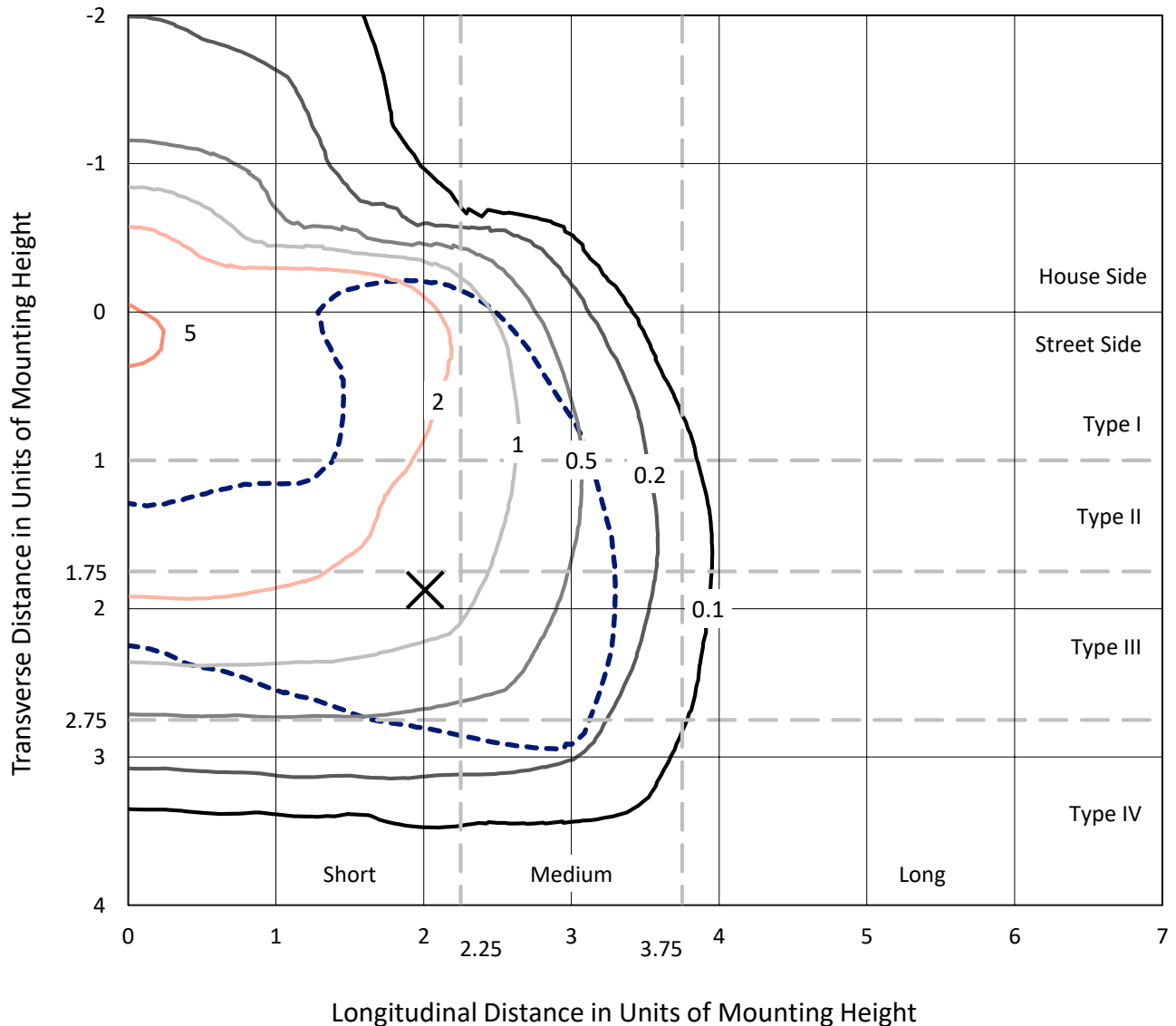


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Iso-Footcandle Lines of Horizontal Illumination

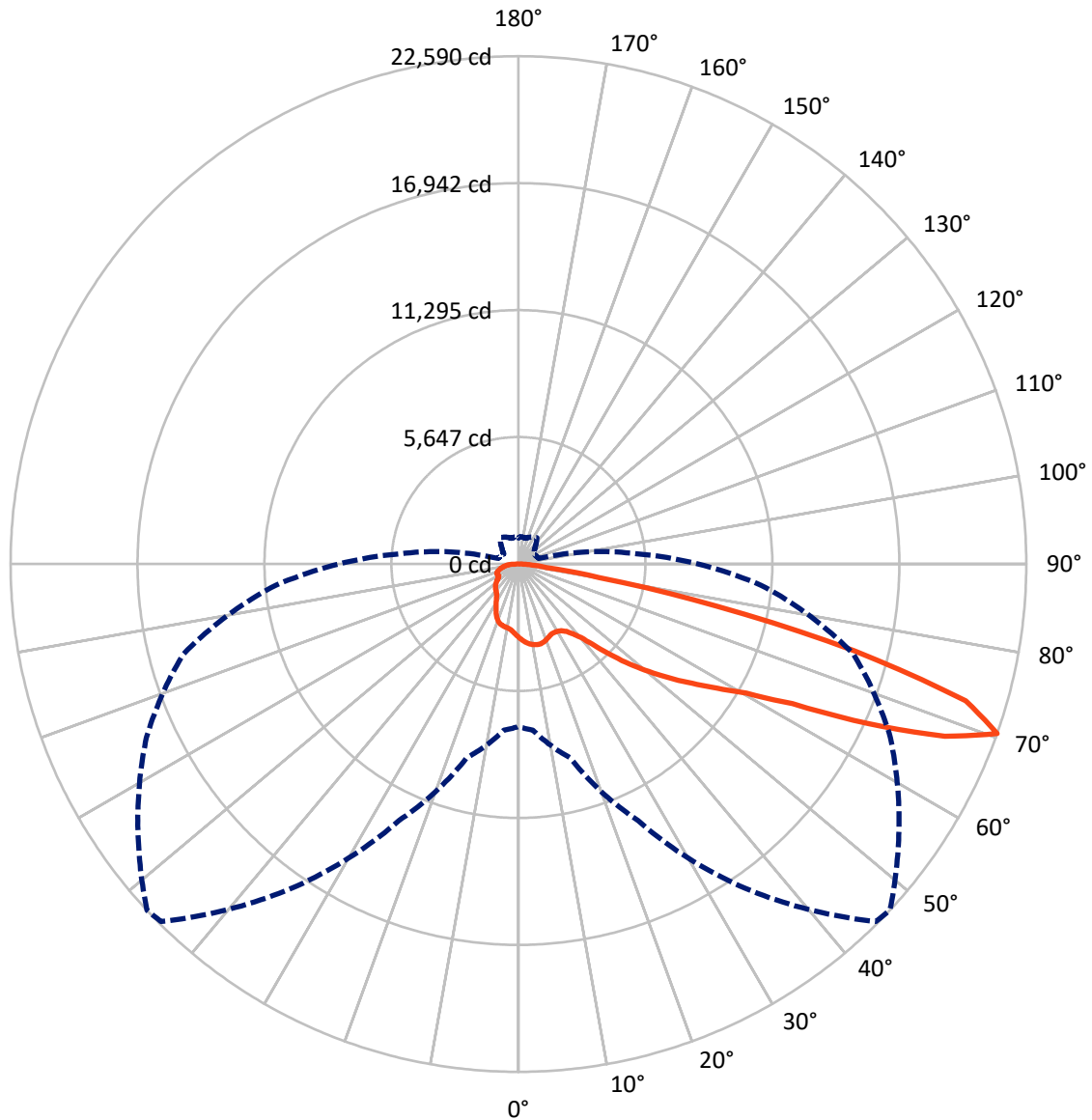
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	5874.0	0.0	5874.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	22282.7	0.0	22282.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	28156.7	0.0	28156.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.0	1.1
10°-20°	918.4	3.3
20°-30°	1356.2	4.8
30°-40°	1971.2	7.0
40°-50°	3547.5	12.6
50°-60°	6145.6	21.8
60°-70°	8771.6	31.2
70°-80°	4502.8	16.0
80°-90°	630.4	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°	28156.7	100.0
0°-180°	28156.7	100.0



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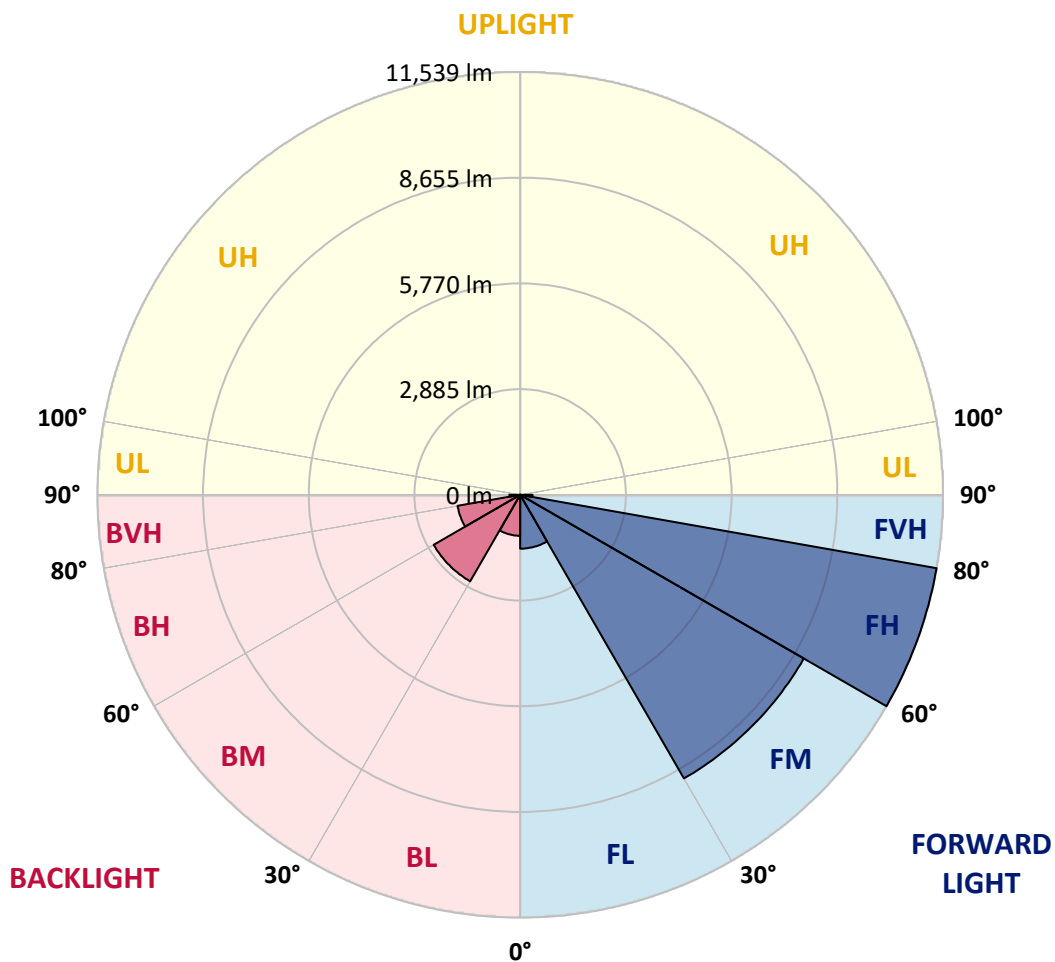
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1469.2	5.2			
FM	(30°-60°)	8937.7	31.7			
FH	(60°-80°)	11539.4	41.0			G4/12000
FVH	(80°-90°)	336.4	1.2			G3/500
BL	(0°-30°)	1118.5	4.0	B3/2500		
BM	(30°-60°)	2726.5	9.7	B3/5000		
BH	(60°-80°)	1735.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	294.0	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°	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0
2.5°	3458.8	3451.9	3449.2	3443.7	3436.9	3402.7	3395.9	3371.2	3336.9	3301.4	3264.4
5°	3686.3	3684.8	3669.8	3642.4	3598.6	3523.2	3505.4	3445.1	3364.3	3286.2	3208.1
7.5°	3886.2	3873.9	3845.1	3790.4	3713.7	3610.8	3586.3	3502.8	3391.7	3284.8	3179.5
10°	4032.9	4025.9	3963.0	3887.5	3787.7	3673.9	3645.1	3552.0	3430.1	3294.4	3162.9
12.5°	4116.4	4102.6	4030.1	3939.6	3820.5	3709.6	3680.7	3586.3	3449.2	3294.4	3139.7
15°	4110.9	4101.3	4028.7	3930.1	3809.5	3712.2	3686.3	3591.8	3445.1	3280.8	3109.6
17.5°	4001.3	4005.5	3943.7	3846.5	3747.9	3673.9	3650.6	3562.9	3417.7	3253.3	3073.9
20°	3809.5	3828.7	3787.7	3701.2	3646.5	3595.8	3580.7	3506.8	3375.3	3213.6	3035.6
22.5°	3617.7	3635.5	3619.1	3546.5	3538.2	3508.2	3499.9	3446.4	3338.3	3189.0	3012.2
25°	3476.6	3493.1	3490.4	3427.4	3451.9	3450.6	3443.7	3417.7	3330.0	3189.0	3016.4
27.5°	3438.4	3443.7	3438.4	3380.7	3414.9	3442.3	3436.9	3432.9	3354.7	3228.7	3068.4
30°	3569.8	3561.6	3519.1	3402.7	3434.2	3472.6	3467.1	3469.9	3428.7	3332.8	3184.9
32.5°	4094.5	4057.5	3923.2	3595.8	3512.3	3532.9	3535.5	3580.7	3587.7	3493.1	3365.7
35°	4879.4	4838.2	4664.3	4113.6	3754.7	3683.5	3683.5	3752.0	3793.1	3723.3	3646.5
37.5°	5710.9	5665.6	5572.5	4831.4	4264.3	3945.1	3938.3	3986.1	4045.1	4061.5	4080.7
40°	6656.0	6608.1	6634.2	5636.9	4975.3	4398.6	4301.3	4266.9	4425.9	4531.4	4684.8
42.5°	7690.3	7668.3	7678.0	6534.1	5784.8	5076.6	4938.3	4761.6	4953.3	5141.0	5463.0
45°	8647.8	8666.9	8657.3	7494.4	6686.2	5904.0	5757.4	5415.0	5602.5	5924.5	6449.2
47.5°	9486.1	9406.6	9529.9	8543.7	7695.7	6830.1	6649.2	6190.3	6380.8	6777.9	7665.5
50°	10503.9	10492.9	10312.2	9943.7	8916.2	7760.1	7523.1	6991.7	7287.5	7839.6	9198.5
52.5°	11573.8	11375.1	11209.4	11032.7	10210.8	8713.5	8423.0	7790.2	8353.2	9047.8	11066.8
55°	11792.9	11703.8	11909.4	12206.6	11458.7	9703.9	9365.5	8791.6	9553.3	10428.6	13221.7
57.5°	12261.3	12260.1	12684.6	13214.7	12743.5	10754.6	10413.5	10001.2	10902.5	12010.7	15509.2
60°	12577.9	12666.9	13455.9	14484.6	14005.2	11968.3	11654.6	11397.1	12436.8	13779.2	17640.7
62.5°	12743.5	12864.1	13940.8	14999.7	15788.7	13988.8	13675.1	13303.9	14466.8	15718.8	18887.4
65°	12054.5	12291.6	13865.5	15444.9	17350.4	17264.0	17123.0	16471.0	17005.2	17251.7	18436.6
67.5°	10147.8	10390.2	12223.1	15029.8	18465.4	20422.8	20453.0	19339.3	18566.8	17383.2	15501.1
70°	7230.0	7420.4	8936.8	12601.2	17616.1	22487.2	22589.9	20661.2	18255.8	15416.2	10830.0
72.5°	3432.9	3549.3	4984.9	8201.2	13979.2	20603.6	20802.3	18973.6	15523.0	11413.4	5908.2
75°	1261.6	1297.2	1685.0	3488.9	8108.0	15194.2	15428.5	13601.1	10290.3	5682.0	2250.7
77.5°	756.2	779.4	945.1	1472.6	3189.0	8684.8	9031.3	7397.2	4497.2	2115.0	1106.8
80°	528.7	545.2	678.1	916.5	1506.7	3309.5	3617.7	3019.2	1791.8	1338.4	805.5
82.5°	357.5	365.7	476.7	619.1	1001.3	1182.2	1275.4	1342.4	1208.2	996.0	511.0
85°	234.3	242.5	323.3	408.2	637.0	610.9	624.6	790.4	882.1	676.8	283.5
87.5°	134.2	139.7	194.6	217.7	312.3	258.9	261.6	416.5	564.3	456.2	172.7
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°	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0
2.5°	3254.6	3237.0	3197.2	3172.5	3149.3	3143.8	3134.1	3132.7	3131.4	3131.4	3127.3
5°	3182.2	3152.1	3090.3	3056.2	3027.4	3024.7	3023.2	3030.1	3032.8	3035.6	3031.4
7.5°	3135.5	3094.4	3017.8	2968.4	2934.3	2926.0	2939.7	2971.1	2991.7	2999.9	2995.8
10°	3106.8	3056.2	2967.0	2913.7	2884.8	2880.8	2898.7	2935.5	2978.1	2994.5	2993.2
12.5°	3073.9	3016.4	2921.8	2865.8	2849.2	2857.5	2880.8	2915.0	2958.8	2984.9	2986.2
15°	3041.0	2973.8	2876.6	2827.3	2820.5	2831.5	2853.3	2879.3	2913.7	2939.7	2942.4
17.5°	3001.2	2931.4	2834.2	2783.5	2778.0	2783.5	2784.8	2798.6	2820.5	2845.1	2851.9
20°	2958.8	2887.6	2786.3	2735.6	2710.9	2688.9	2664.4	2667.1	2674.0	2698.6	2704.1
22.5°	2928.7	2857.5	2749.3	2679.5	2613.7	2548.0	2498.5	2491.7	2494.5	2515.1	2521.9
25°	2931.4	2856.2	2739.7	2619.1	2475.3	2369.8	2304.1	2293.2	2291.8	2306.8	2316.4
27.5°	2984.9	2909.5	2775.4	2557.5	2324.6	2168.5	2098.6	2090.4	2079.3	2083.4	2094.5
30°	3104.1	3034.1	2861.6	2494.5	2161.6	1971.2	1898.6	1890.4	1875.3	1868.5	1876.6
32.5°	3298.5	3241.1	2987.7	2434.1	1998.5	1802.7	1728.8	1710.9	1701.3	1693.1	1700.0
35°	3621.8	3597.3	3156.1	2368.4	1854.8	1672.6	1605.5	1578.1	1564.4	1579.4	1590.4
37.5°	4128.7	4142.4	3376.6	2265.7	1743.8	1586.2	1530.2	1498.6	1478.0	1490.4	1502.8
40°	4846.4	4856.1	3620.4	2120.4	1647.9	1535.7	1475.2	1446.5	1417.7	1395.8	1394.4
42.5°	5788.9	5691.8	3860.1	1962.9	1537.0	1504.1	1437.0	1401.4	1357.5	1297.2	1284.8
45°	6906.7	6565.6	4042.5	1782.1	1412.2	1465.8	1394.4	1345.2	1276.8	1210.9	1204.1
47.5°	8194.3	7503.9	4131.5	1594.5	1295.8	1409.6	1342.4	1264.4	1178.0	1145.2	1141.0
50°	9766.9	8617.6	4173.9	1412.2	1194.4	1335.6	1267.1	1175.3	1102.7	1095.8	1091.8
52.5°	11557.4	9957.4	4187.5	1262.9	1110.9	1239.8	1205.4	1116.5	1058.9	1064.3	1064.3
55°	13431.3	11340.8	4001.3	1154.9	1034.2	1141.0	1164.4	1093.1	1045.2	1067.0	1075.4
57.5°	15151.7	12566.8	3414.9	1071.1	961.6	1065.7	1149.3	1115.1	1082.2	1171.2	1176.7
60°	16472.3	13291.5	2550.6	996.0	908.1	1039.7	1189.0	1198.6	1206.9	1419.1	1447.9
62.5°	16749.0	13050.4	1753.4	936.9	883.6	1061.6	1261.6	1262.9	1253.3	1401.4	1419.1
65°	15479.1	11525.9	1275.4	904.1	863.0	1101.3	1323.3	1294.5	1231.4	1343.9	1310.9
67.5°	12292.9	8683.3	1061.6	879.4	832.9	1098.5	1389.0	1323.3	1219.2	1316.5	1262.9
70°	7979.3	5250.6	945.1	858.9	797.2	1046.5	1427.3	1320.5	1183.5	1224.6	1161.6
72.5°	3893.1	2347.9	867.1	828.7	760.2	973.9	1426.0	1295.8	1146.5	1143.8	1109.5
75°	1523.3	1075.4	795.9	783.5	697.3	891.7	1387.6	1260.2	1102.7	1058.9	1046.5
77.5°	891.7	767.2	705.4	716.4	621.8	809.6	1331.5	1198.6	1042.5	990.4	976.6
80°	649.4	573.9	601.3	619.1	531.4	727.4	1256.1	1123.3	975.3	1001.3	982.1
82.5°	416.5	369.8	487.7	505.4	442.4	643.8	1173.9	1043.8	880.8	800.0	780.7
85°	212.3	234.3	363.1	385.0	341.0	528.7	1074.0	938.3	774.0	665.7	676.8
87.5°	119.1	160.3	231.6	258.9	241.0	406.8	871.3	774.0	631.5	513.7	452.0
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)