

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: P194097

Luminaire Tested: **GLEON-AF-09-LED-E1-T4W-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194097
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-09-LED-E1-T4W-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 28410 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 290
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

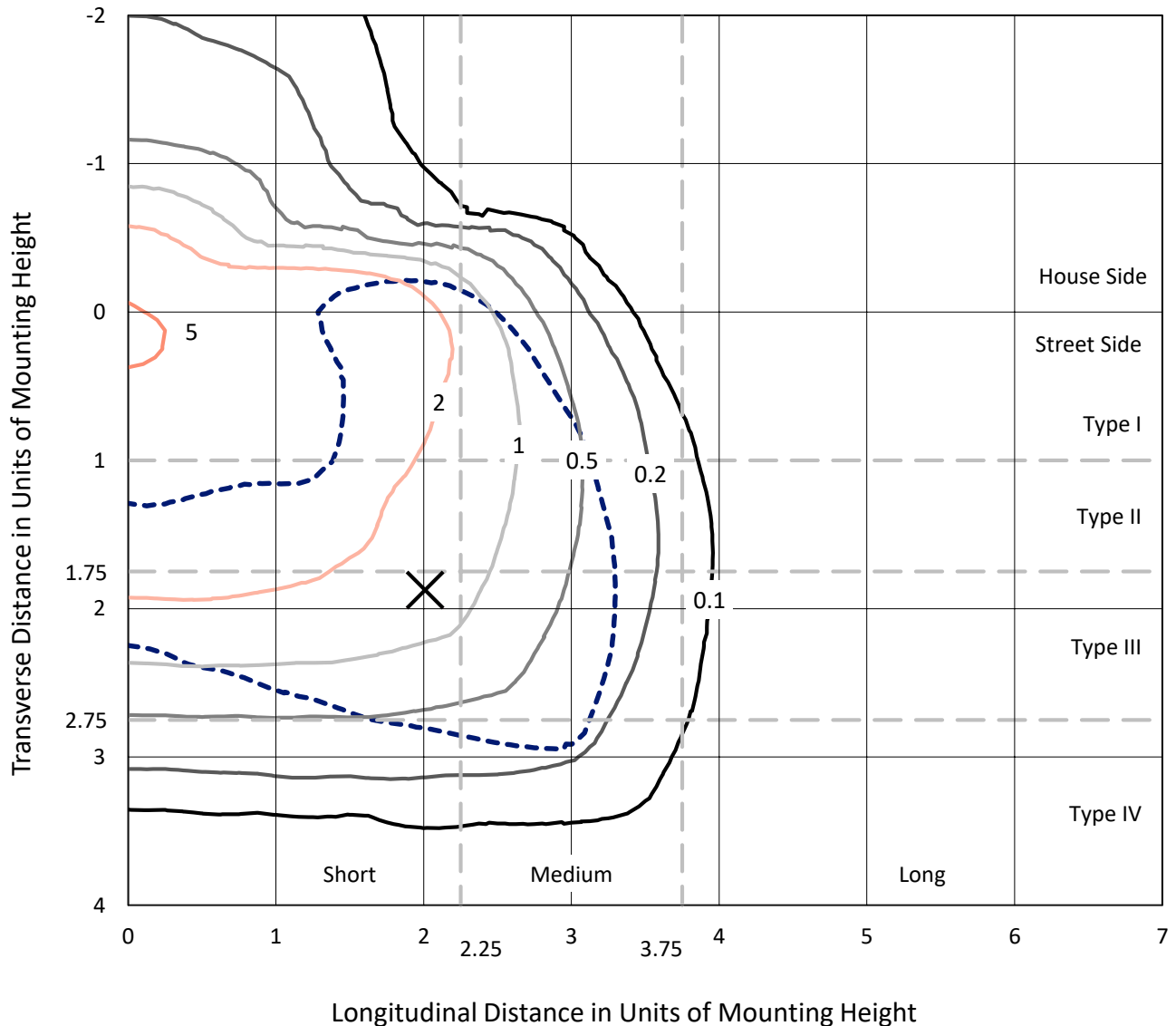


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

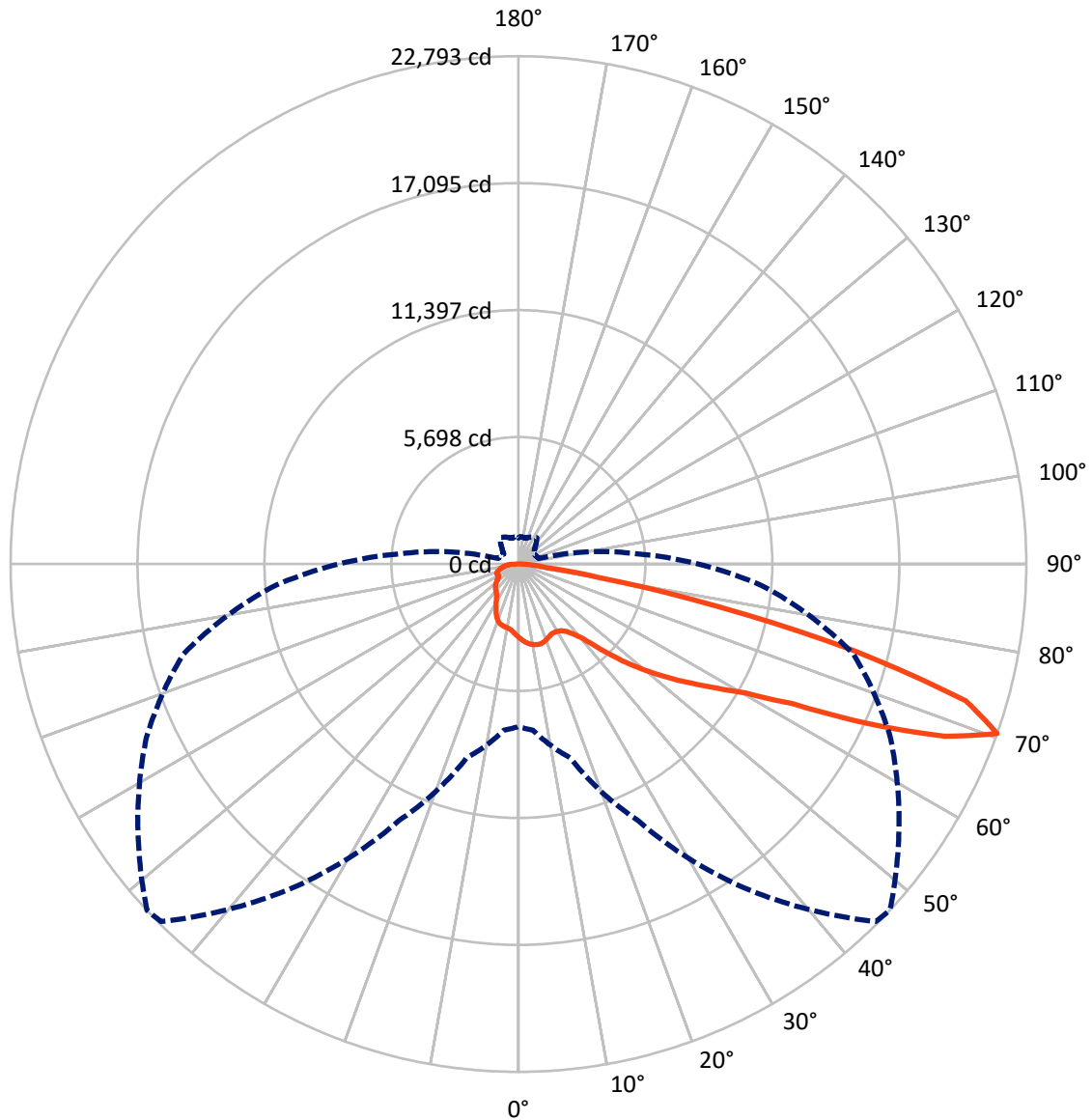


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Semi-Cutoff

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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	5926.9	0.0	5926.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	22483.1	0.0	22483.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	28410.0	0.0	28410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	1.1
10°-20°	926.6	3.3
20°-30°	1368.4	4.8
30°-40°	1988.9	7.0
40°-50°	3579.4	12.6
50°-60°	6200.9	21.8
60°-70°	8850.5	31.2
70°-80°	4543.4	16.0
80°-90°	636.1	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°	28410.0	100.0
0°-180°	28410.0	100.0

Coefficient of Utilization



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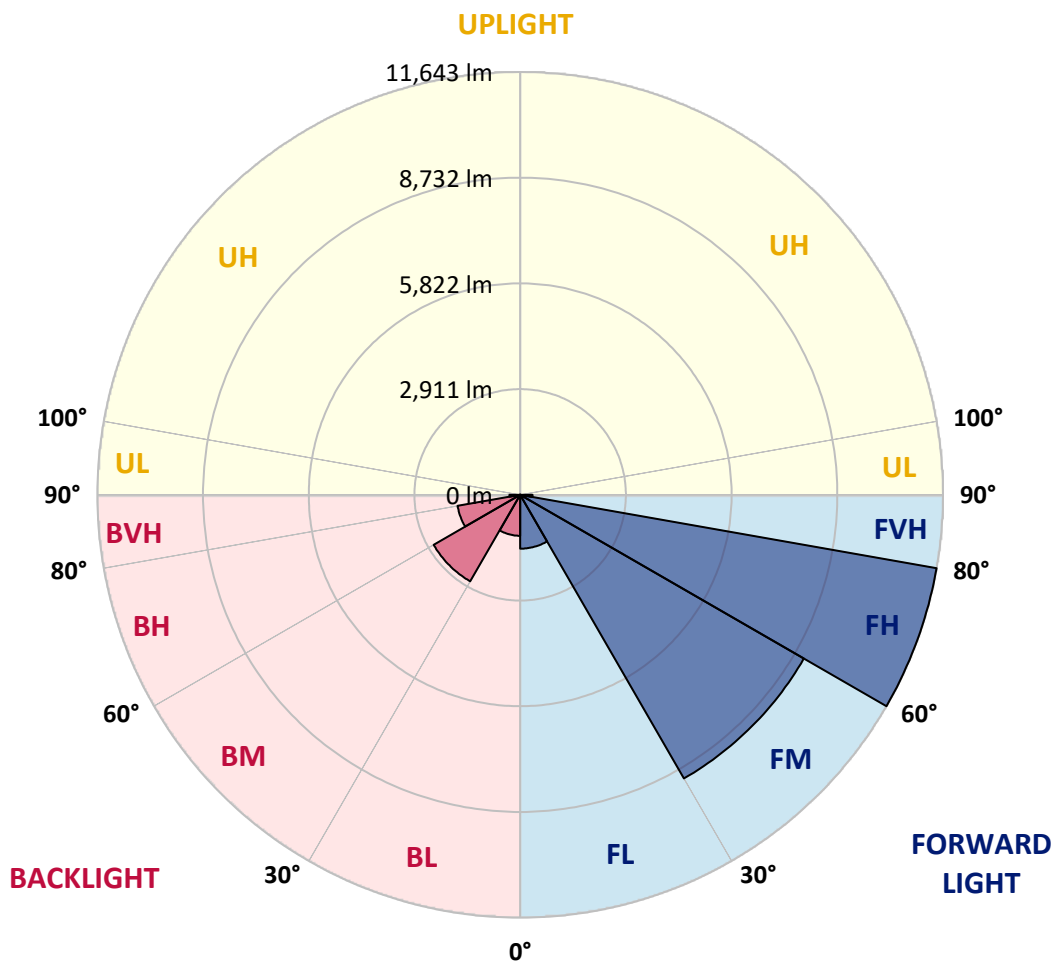
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1482.4	5.2			
FM	(30°-60°)	9018.1	31.7			
FH	(60°-80°)	11643.2	41.0			G4/12000
FVH	(80°-90°)	339.4	1.2			G3/500
BL	(0°-30°)	1128.5	4.0	B3/2500		
BM	(30°-60°)	2751.1	9.7	B3/5000		
BH	(60°-80°)	1750.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	296.7	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°	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4
2.5°	3489.9	3483.0	3480.3	3474.7	3467.8	3433.3	3426.4	3401.5	3366.9	3331.0	3293.7
5°	3719.4	3718.0	3702.8	3675.2	3630.9	3554.9	3536.9	3476.1	3394.6	3315.8	3237.0
7.5°	3921.2	3908.7	3879.7	3824.4	3747.0	3643.4	3618.5	3534.2	3422.2	3314.4	3208.0
10°	4069.1	4062.2	3998.6	3922.6	3821.7	3706.9	3677.9	3583.9	3460.9	3324.1	3191.4
12.5°	4153.4	4139.6	4066.3	3975.1	3854.8	3742.9	3713.9	3618.5	3480.3	3324.1	3167.9
15°	4147.9	4138.2	4064.9	3965.4	3843.8	3745.6	3719.4	3624.0	3476.1	3310.3	3137.5
17.5°	4037.3	4041.4	3979.2	3881.1	3781.6	3706.9	3683.4	3595.0	3448.5	3282.6	3101.6
20°	3843.8	3863.1	3821.7	3734.6	3679.3	3628.2	3613.0	3538.3	3405.6	3242.5	3062.9
22.5°	3650.3	3668.2	3651.7	3578.4	3570.1	3539.7	3531.4	3477.5	3368.3	3217.7	3039.4
25°	3507.9	3524.5	3521.7	3458.2	3483.0	3481.7	3474.7	3448.5	3360.0	3217.7	3043.5
27.5°	3469.2	3474.7	3469.2	3411.2	3445.7	3473.4	3467.8	3463.7	3384.9	3257.7	3096.0
30°	3601.9	3593.6	3550.8	3433.3	3465.1	3503.8	3498.2	3501.0	3459.5	3362.8	3213.5
32.5°	4131.3	4093.9	3958.5	3628.2	3543.9	3564.6	3567.3	3613.0	3619.9	3524.5	3396.0
35°	4923.2	4881.8	4706.2	4150.6	3788.5	3716.6	3716.6	3785.7	3827.2	3756.7	3679.3
37.5°	5762.2	5716.6	5622.6	4874.9	4302.7	3980.6	3973.7	4022.1	4081.5	4098.1	4117.4
40°	6715.9	6667.5	6693.8	5687.6	5020.0	4438.1	4340.0	4305.4	4465.7	4572.2	4727.0
42.5°	7759.4	7737.3	7747.0	6592.9	5836.8	5122.3	4982.7	4804.4	4997.9	5187.2	5512.0
45°	8725.6	8744.9	8735.2	7561.8	6746.3	5957.1	5809.2	5463.7	5653.0	5977.8	6507.2
47.5°	9571.4	9491.3	9615.7	8620.5	7765.0	6891.4	6709.0	6246.0	6438.1	6838.9	7734.6
50°	10598.4	10587.3	10404.9	10033.1	8996.5	7829.9	7590.8	7054.5	7353.1	7910.1	9281.2
52.5°	11677.8	11477.4	11310.2	11131.9	10302.6	8791.9	8498.9	7860.3	8428.4	9129.1	11166.4
55°	11899.0	11809.1	12016.5	12316.4	11561.7	9791.2	9449.8	8870.7	9639.2	10522.4	13340.6
57.5°	12371.7	12370.3	12798.8	13333.7	12858.2	10851.3	10507.2	10091.1	11000.6	12118.8	15648.8
60°	12691.0	12780.8	13576.9	14614.9	14131.2	12075.9	11759.4	11499.5	12548.6	13903.1	17799.4
62.5°	12858.2	12979.8	14066.2	15134.6	15930.7	14114.6	13798.1	13423.5	14597.0	15860.3	19057.2
65°	12163.0	12402.1	13990.2	15583.8	17506.4	17419.3	17277.0	16619.1	17158.1	17406.9	18602.5
67.5°	10239.0	10483.7	12333.0	15165.0	18631.5	20606.6	20637.0	19513.3	18733.8	17539.6	15640.5
70°	7295.0	7487.1	9017.2	12714.5	17774.5	22689.5	22793.2	20847.1	18420.0	15554.8	10927.3
72.5°	3463.7	3581.2	5029.7	8275.0	14104.9	20789.0	20989.4	19144.3	15662.6	11516.1	5961.2
75°	1273.0	1308.9	1700.1	3520.4	8181.0	15330.9	15567.2	13723.4	10382.8	5733.2	2270.9
77.5°	763.0	786.4	953.7	1485.8	3217.7	8762.9	9112.6	7463.6	4537.6	2134.1	1116.8
80°	533.5	550.1	684.2	924.7	1520.4	3339.3	3650.3	3046.3	1807.9	1350.4	812.7
82.5°	360.7	369.0	481.0	624.7	1010.4	1192.8	1286.8	1354.5	1219.1	1004.8	515.5
85°	236.3	244.6	326.2	411.9	642.7	616.4	630.3	797.5	890.1	682.8	286.1
87.5°	135.5	141.0	196.3	219.8	315.1	261.2	264.0	420.2	569.4	460.3	174.2
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°	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4	3296.4
2.5°	3284.0	3266.0	3226.0	3201.1	3177.6	3172.1	3162.4	3161.0	3159.6	3159.6	3155.5
5°	3210.8	3180.3	3118.1	3083.6	3054.6	3051.8	3050.4	3057.3	3060.1	3062.9	3058.7
7.5°	3163.8	3122.3	3044.9	2995.1	2960.6	2952.3	2966.1	2997.9	3018.6	3026.9	3022.8
10°	3134.7	3083.6	2993.8	2939.8	2910.8	2906.7	2924.6	2962.0	3004.8	3021.4	3020.0
12.5°	3101.6	3043.5	2948.1	2891.5	2874.9	2883.2	2906.7	2941.2	2985.5	3011.7	3013.1
15°	3068.4	3000.7	2902.5	2852.8	2845.9	2856.9	2879.0	2905.3	2939.8	2966.1	2968.9
17.5°	3028.3	2957.8	2859.7	2808.5	2803.0	2808.5	2809.9	2823.7	2845.9	2870.7	2877.7
20°	2985.5	2913.6	2811.3	2760.2	2735.3	2713.2	2688.3	2691.1	2698.0	2722.8	2728.4
22.5°	2955.1	2883.2	2774.0	2703.5	2637.2	2570.8	2521.1	2514.1	2516.9	2537.6	2544.6
25°	2957.8	2881.8	2764.3	2642.7	2497.6	2391.1	2324.8	2313.7	2312.3	2327.6	2337.2
27.5°	3011.7	2935.7	2800.3	2580.5	2345.5	2188.0	2117.5	2109.2	2098.1	2102.3	2113.3
30°	3132.0	3061.5	2887.3	2516.9	2181.0	1988.9	1915.7	1907.4	1892.2	1885.3	1893.6
32.5°	3328.2	3270.2	3014.5	2456.1	2016.6	1818.9	1744.3	1726.3	1716.6	1708.3	1715.3
35°	3654.4	3629.5	3184.5	2389.7	1871.4	1687.6	1619.9	1592.2	1578.4	1593.6	1604.7
37.5°	4165.8	4179.6	3407.0	2286.1	1759.5	1600.5	1543.9	1512.1	1491.3	1503.8	1516.2
40°	4890.1	4899.7	3653.0	2139.6	1662.7	1549.4	1488.6	1459.6	1430.5	1408.4	1407.0
42.5°	5841.0	5742.9	3894.9	1980.6	1550.8	1517.6	1449.9	1413.9	1369.7	1308.9	1296.5
45°	6968.8	6624.7	4078.7	1798.2	1425.0	1478.9	1407.0	1357.3	1288.2	1221.8	1214.9
47.5°	8268.1	7571.5	4168.6	1608.8	1307.5	1422.2	1354.5	1275.7	1188.7	1155.5	1151.3
50°	9854.8	8695.1	4211.4	1425.0	1205.2	1347.6	1278.5	1185.9	1112.6	1105.7	1101.6
52.5°	11661.3	10046.9	4225.3	1274.3	1120.9	1250.9	1216.3	1126.5	1068.4	1073.9	1073.9
55°	13552.0	11442.9	4037.3	1165.2	1043.5	1151.3	1174.8	1103.0	1054.6	1076.7	1085.0
57.5°	15288.0	12679.9	3445.7	1080.8	970.3	1075.3	1159.6	1125.1	1091.9	1181.7	1187.3
60°	16620.4	13411.1	2573.6	1004.8	916.4	1049.1	1199.7	1209.4	1217.7	1431.9	1460.9
62.5°	16899.6	13167.8	1769.2	945.4	891.5	1071.2	1273.0	1274.3	1264.7	1413.9	1431.9
65°	15618.4	11629.5	1286.8	912.2	870.8	1111.3	1335.2	1306.1	1242.6	1355.9	1322.7
67.5°	12403.5	8761.5	1071.2	887.3	840.4	1108.5	1401.5	1335.2	1230.1	1328.3	1274.3
70°	<i>8051.1</i>	<i>5297.8</i>	<i>953.7</i>	<i>866.6</i>	<i>804.4</i>	<i>1056.0</i>	<i>1440.2</i>	<i>1332.4</i>	<i>1194.2</i>	<i>1235.6</i>	<i>1172.1</i>
72.5°	3928.1	2369.0	874.9	836.2	767.1	982.7	1438.8	1307.5	1156.9	1154.1	1119.5
75°	1537.0	1085.0	803.0	790.6	703.5	899.8	1400.1	1271.6	1112.6	1068.4	1056.0
77.5°	899.8	774.0	711.8	722.9	627.5	816.9	1343.5	1209.4	1051.8	999.3	985.5
80°	655.1	579.1	606.8	624.7	536.3	733.9	1267.4	1133.4	984.1	1010.4	991.0
82.5°	420.2	373.2	492.0	510.0	446.4	649.6	1184.5	1053.2	888.7	807.2	787.8
85°	214.2	236.3	366.3	388.4	344.2	533.5	1083.6	946.8	780.9	671.7	682.8
87.5°	120.2	161.7	233.6	261.2	243.3	410.5	879.1	780.9	637.2	518.3	456.1
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)