

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: P302853

Luminaire Tested: **GLNA-AF-06-LED-E1-T4W-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-T4W-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27532.6 lumens
Efficiency: N/A
Efficacy: 110.6 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

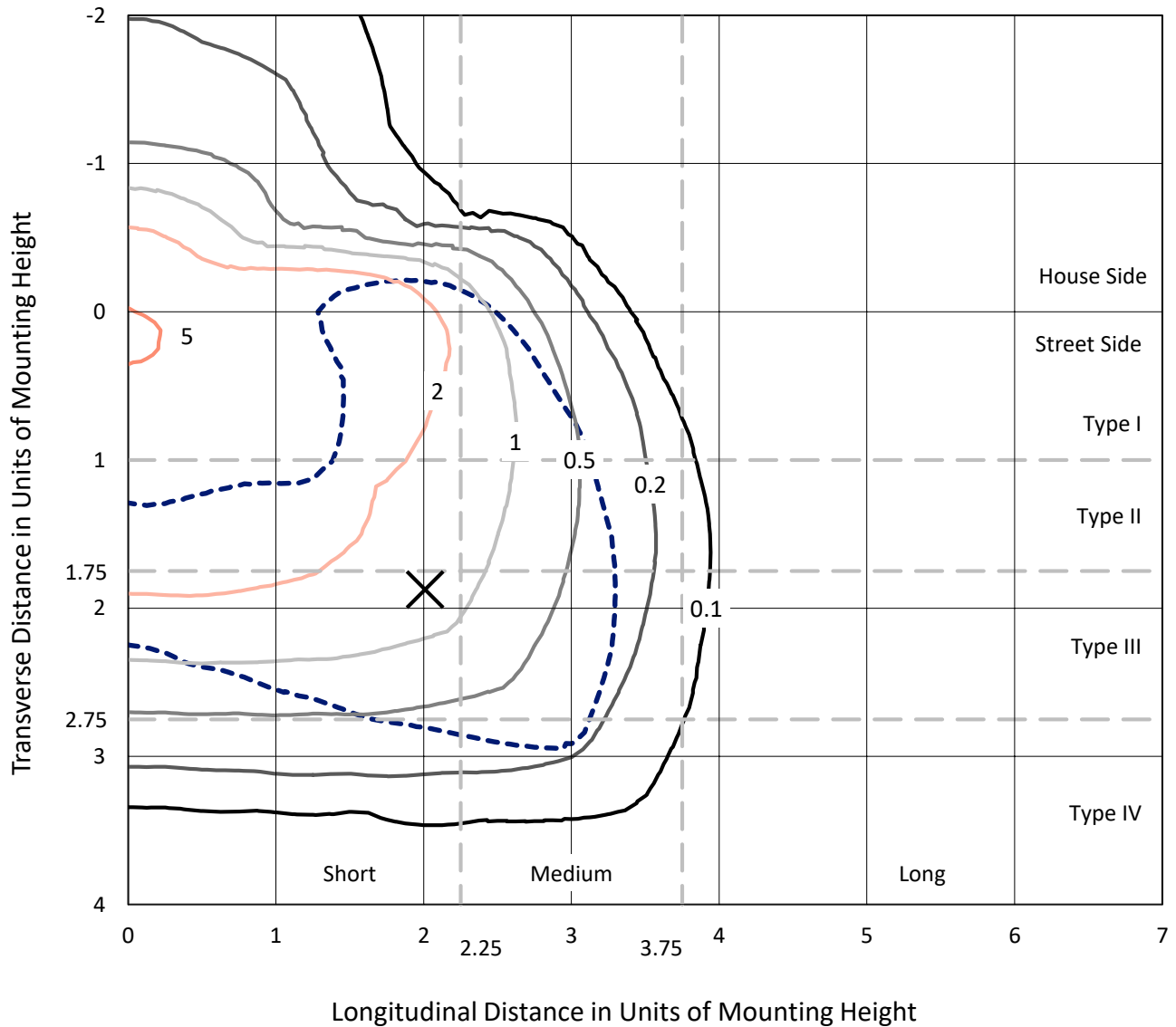
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

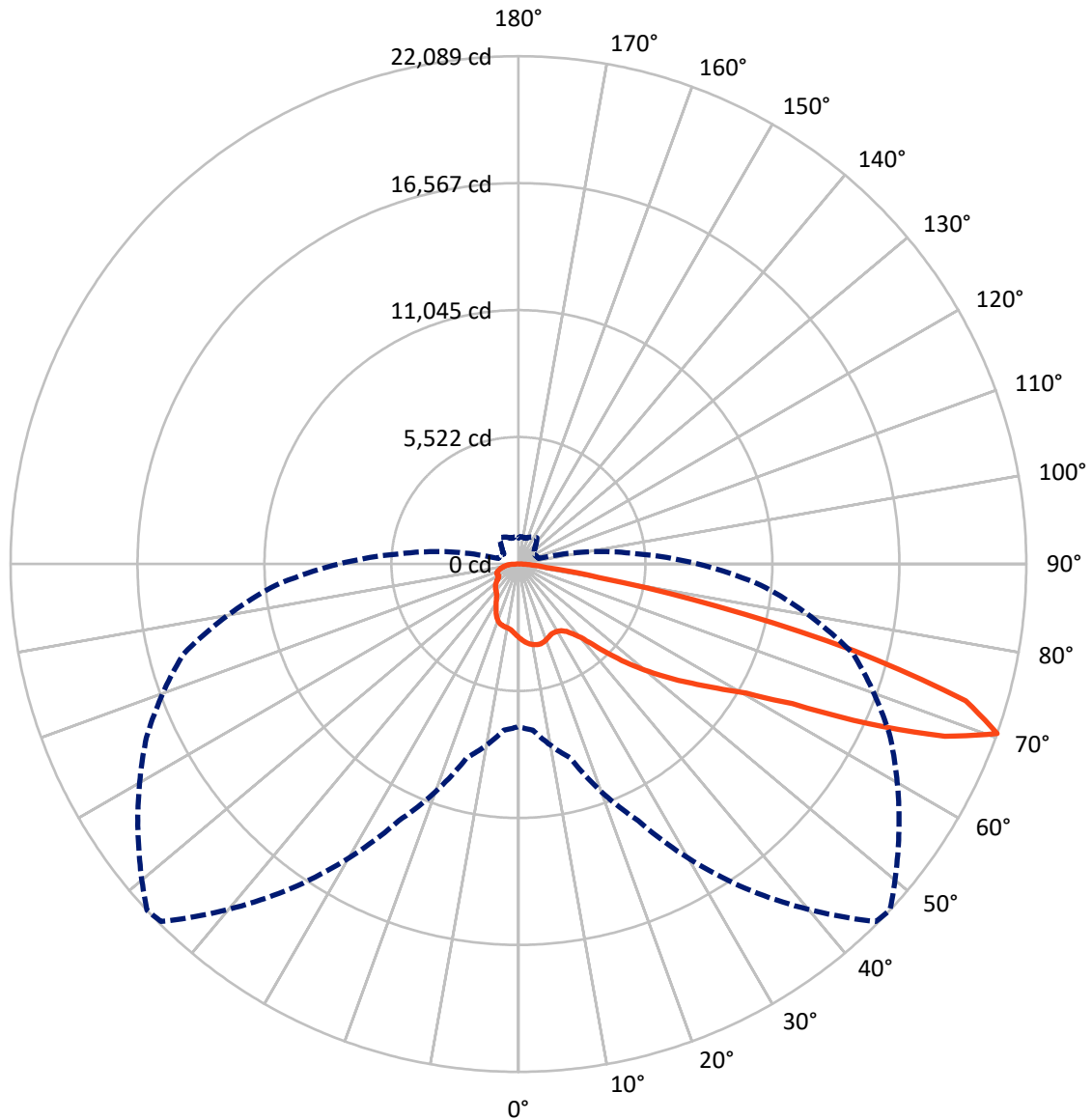
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	5743.9	0.0	5743.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	21788.8	0.0	21788.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	27532.6	0.0	27532.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.1	1.1
10°-20°	898.0	3.3
20°-30°	1326.1	4.8
30°-40°	1927.5	7.0
40°-50°	3468.8	12.6
50°-60°	6009.4	21.8
60°-70°	8577.2	31.2
70°-80°	4403.0	16.0
80°-90°	616.4	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°	27532.6	100.0
0°-180°	27532.6	100.0

Coefficient of Utilization



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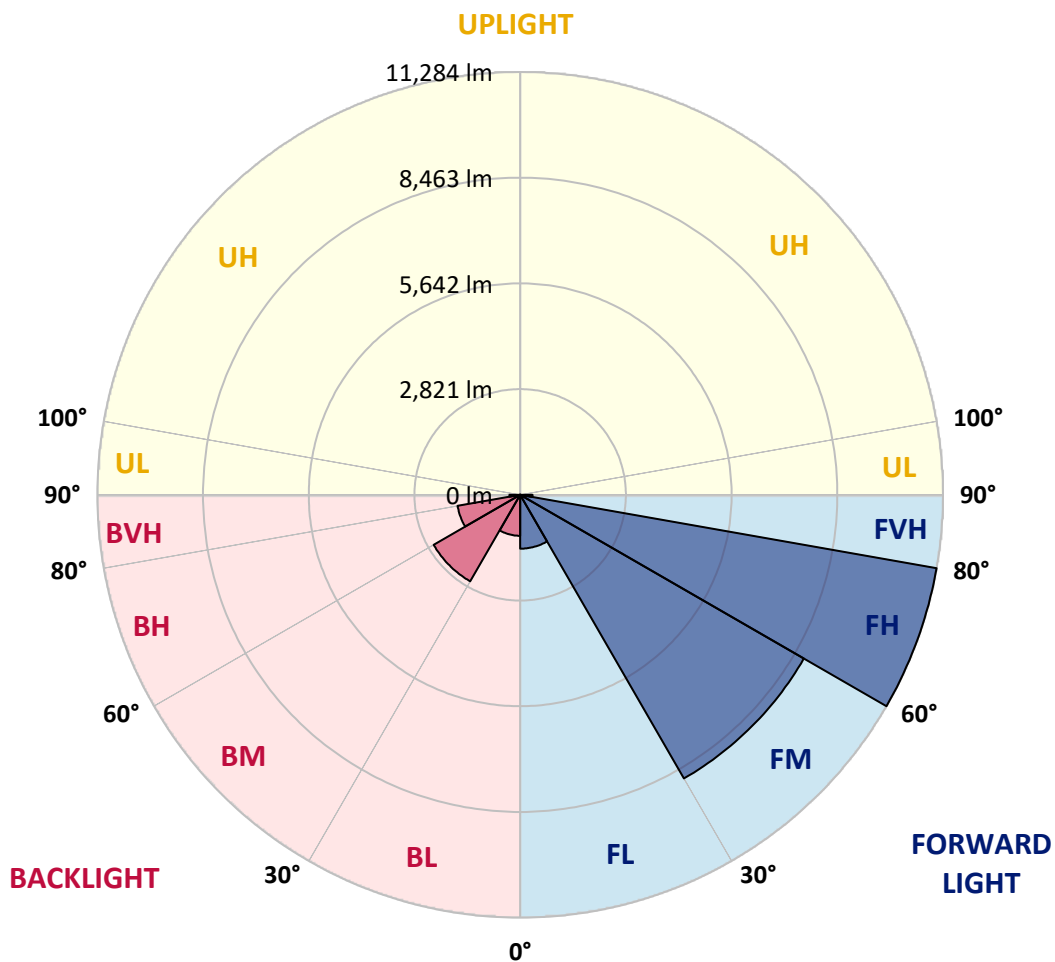
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1436.6	5.2			
FM (30°-60°)	8739.6	31.7			
FH (60°-80°)	11283.6	41.0			G4/12000
FVH (80°-90°)	328.9	1.2			G3/500
BL (0°-30°)	1093.7	4.0	B3/2500		
BM (30°-60°)	2666.1	9.7	B3/5000		
BH (60°-80°)	1696.6	6.2	B3/2500		G3/2500
BVH (80°-90°)	287.5	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°	3194.6	3194.6	3194.6	3194.6	3194.6	3194.6	3194.6	3194.6	3194.6	3194.6	3194.6
2.5°	3382.3	3375.6	3373.0	3367.6	3360.9	3327.1	3320.5	3296.4	3263.1	3227.9	3191.9
5°	3604.7	3603.4	3588.3	3561.6	3518.9	3445.0	3427.7	3369.0	3289.8	3213.3	3137.2
7.5°	3800.0	3788.0	3760.0	3706.2	3631.4	3530.9	3506.9	3425.0	3316.5	3211.9	3108.7
10°	3943.3	3936.6	3875.2	3801.4	3703.5	3592.3	3564.3	3473.1	3353.8	3221.3	3092.7
12.5°	4025.1	4011.8	3940.6	3852.5	3736.0	3627.4	3598.9	3506.9	3373.0	3221.3	3070.0
15°	4019.8	4010.4	3939.3	3842.7	3725.3	3630.1	3604.7	3512.2	3369.0	3207.9	3040.6
17.5°	3912.6	3916.6	3856.5	3761.3	3664.8	3592.3	3569.6	3484.2	3341.8	3181.2	3005.9
20°	3725.3	3744.0	3703.5	3619.4	3565.6	3516.2	3501.5	3429.0	3300.4	3142.5	2968.1
22.5°	3537.6	3554.9	3538.9	3467.7	3459.7	3430.3	3422.3	3370.3	3264.4	3118.5	2945.4
25°	3399.7	3415.7	3413.0	3351.2	3375.6	3374.3	3367.6	3341.8	3256.4	3118.5	2949.4
27.5°	3362.3	3367.6	3362.3	3305.8	3339.1	3366.3	3360.9	3356.5	3280.4	3157.2	3000.6
30°	3490.8	3482.8	3441.0	3327.1	3358.3	3395.6	3390.3	3393.0	3352.5	3259.1	3114.5
32.5°	4003.8	3967.3	3836.1	3516.2	3434.4	3454.4	3457.0	3501.5	3508.2	3415.7	3291.1
35°	4771.2	4731.1	4560.7	4022.5	3671.5	3602.1	3602.1	3668.8	3708.8	3640.8	3565.6
37.5°	5584.4	5539.9	5449.1	4724.5	4169.7	3857.9	3851.2	3897.9	3955.3	3971.7	3990.4
40°	6508.4	6461.6	6487.0	5511.9	4865.0	4300.9	4205.7	4172.4	4327.6	4430.8	4581.2
42.5°	7520.0	7498.2	7507.5	6389.1	5656.4	4964.2	4829.0	4655.9	4843.7	5027.0	5341.9
45°	8456.0	8474.7	8465.3	7328.2	6538.2	5773.0	5629.8	5294.8	5478.5	5793.0	6306.4
47.5°	9275.9	9198.0	9318.6	8354.1	7525.3	6678.7	6501.7	6053.3	6239.2	6627.6	7495.5
50°	10271.0	10260.3	10083.7	9723.4	8718.4	7588.0	7356.3	6836.7	7125.8	7665.9	8994.7
52.5°	11317.3	11122.9	10961.0	10788.0	9984.5	8520.5	8236.2	7617.4	8168.1	8847.0	10821.8
55°	11531.3	11444.6	11645.2	11936.1	11204.8	9488.9	9158.0	8596.6	9341.7	10197.6	12928.6
57.5°	11989.5	11988.2	12403.7	12922.0	12461.1	10516.1	10182.5	9779.4	10660.7	11744.4	15165.4
60°	12299.2	12385.9	13157.7	14163.6	13694.7	11703.0	11396.1	11144.3	12161.2	13473.6	17249.6
62.5°	12461.1	12579.0	13632.0	14667.2	15438.6	13678.7	13372.2	13009.2	14146.2	15370.5	18468.5
65°	11787.6	12018.9	13558.1	15102.7	16965.8	16881.3	16743.3	16105.9	16628.1	16869.2	18028.1
67.5°	9922.7	10159.8	11952.2	14696.5	18056.1	19970.4	19999.8	18910.7	18155.3	16997.8	15157.4
70°	7069.8	7255.7	8738.9	12321.8	17225.6	21988.7	22089.3	20203.1	17851.1	15074.2	10590.0
72.5°	3356.5	3470.4	4874.4	8019.6	13669.3	20147.0	20341.4	18553.1	15178.8	11160.3	5777.0
75°	1233.6	1268.3	1647.3	3411.7	7928.4	14857.6	15086.7	13299.7	10061.9	5556.4	2200.7
77.5°	739.4	762.1	924.4	1440.0	3118.5	8492.5	8831.0	7233.0	4397.5	2068.2	1082.4
80°	516.9	532.9	662.8	896.0	1473.4	3236.4	3537.6	2952.1	1751.9	1308.8	787.4
82.5°	349.7	357.7	466.2	605.5	979.1	1155.8	1247.0	1312.8	1181.6	973.8	499.6
85°	229.1	237.1	316.3	399.0	622.8	597.5	610.8	772.7	862.6	661.5	277.2
87.5°	131.2	136.6	190.4	213.1	305.6	253.1	255.8	407.1	552.1	446.2	168.6
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°	3194.6	3194.6	3194.6	3194.6	3194.6	3194.6	3194.6	3194.6	3194.6	3194.6	3194.6
2.5°	3182.6	3165.2	3126.5	3102.0	3079.3	3074.0	3064.7	3063.3	3062.0	3062.0	3058.0
5°	3111.4	3082.0	3022.0	2988.2	2960.1	2957.5	2956.1	2962.8	2965.5	2968.1	2964.1
7.5°	3066.0	3026.0	2950.8	2902.7	2869.4	2860.9	2874.7	2905.4	2925.4	2933.4	2929.4
10°	3038.0	2988.2	2901.4	2848.9	2820.9	2816.9	2834.2	2870.7	2912.1	2928.1	2926.8
12.5°	3005.9	2949.4	2856.9	2802.2	2786.2	2794.2	2816.9	2850.2	2893.4	2918.8	2920.1
15°	2973.5	2908.1	2812.9	2764.8	2758.2	2768.8	2790.2	2815.5	2848.9	2874.7	2877.4
17.5°	2934.8	2866.3	2771.5	2721.7	2716.3	2721.7	2723.0	2736.4	2758.2	2782.2	2788.9
20°	2893.4	2823.6	2724.3	2675.0	2650.9	2629.6	2605.1	2607.8	2614.5	2638.9	2644.3
22.5°	2863.6	2794.2	2688.3	2619.8	2555.7	2491.2	2443.2	2436.5	2439.2	2459.2	2465.9
25°	2866.3	2792.9	2679.0	2561.1	2420.5	2317.3	2252.8	2242.1	2240.8	2255.5	2265.2
27.5°	2918.8	2844.9	2713.7	2500.6	2273.3	2120.2	2052.2	2044.2	2033.5	2037.5	2048.2
30°	3035.3	2966.8	2798.2	2439.2	2113.5	1927.6	1856.4	1848.4	1833.7	1827.1	1835.1
32.5°	3225.3	3169.2	2921.4	2380.0	1954.3	1762.6	1690.5	1673.1	1663.8	1655.8	1662.5
35°	3541.6	3517.5	3086.0	2316.0	1813.7	1635.3	1569.9	1543.2	1529.9	1544.6	1555.2
37.5°	4037.1	4050.5	3301.8	2215.4	1705.2	1551.2	1496.1	1465.4	1445.4	1457.4	1469.4
40°	4739.1	4748.5	3540.2	2073.5	1611.3	1501.4	1442.7	1414.7	1386.2	1364.8	1363.5
42.5°	5660.4	5565.7	3774.7	1919.6	1502.8	1470.7	1405.3	1370.2	1327.5	1268.3	1256.3
45°	6753.5	6420.3	3952.6	1742.5	1380.9	1433.4	1363.5	1315.5	1248.3	1184.2	1177.6
47.5°	8012.9	7337.6	4039.8	1559.2	1267.0	1378.2	1312.8	1236.3	1151.8	1119.7	1115.7
50°	9550.3	8426.6	4081.2	1380.9	1168.2	1306.1	1238.9	1149.1	1078.4	1071.7	1067.7
52.5°	11301.3	9736.7	4095.0	1234.9	1086.4	1212.3	1178.9	1091.7	1035.2	1041.0	1041.0
55°	13133.7	11089.6	3912.6	1129.1	1011.2	1115.7	1138.4	1069.0	1021.9	1043.7	1051.7
57.5°	14815.8	12288.5	3339.1	1047.7	940.4	1042.3	1123.7	1090.4	1058.3	1145.1	1150.4
60°	16107.2	12996.7	2493.9	973.8	887.9	1016.5	1162.9	1172.2	1180.2	1387.5	1416.0
62.5°	16377.7	12761.4	1714.5	916.4	863.9	1038.3	1233.6	1234.9	1225.6	1370.2	1387.5
65°	15136.1	11270.2	1247.0	883.9	843.9	1077.0	1294.1	1265.6	1204.2	1314.1	1281.7
67.5°	12020.2	8491.1	1038.3	859.9	814.5	1074.3	1358.2	1294.1	1192.2	1287.4	1234.9
70°	7802.5	5134.2	924.4	839.9	779.4	1023.2	1395.5	1291.4	1157.1	1197.6	1135.7
72.5°	3806.7	2295.9	847.9	810.5	743.4	952.5	1394.2	1267.0	1121.1	1118.4	1085.0
75°	1489.4	1051.7	778.1	766.1	682.0	871.9	1356.8	1232.3	1078.4	1035.2	1023.2
77.5°	871.9	750.0	690.0	700.7	608.1	791.4	1302.1	1172.2	1019.2	968.5	955.1
80°	634.8	561.4	588.1	605.5	519.6	711.3	1228.3	1098.4	953.8	979.1	960.5
82.5°	407.1	361.7	476.9	494.2	432.9	629.5	1147.7	1020.5	861.3	782.1	763.4
85°	207.8	229.1	355.0	376.4	333.6	516.9	1050.3	917.8	756.7	650.8	661.5
87.5°	116.6	156.6	226.4	253.1	235.8	397.7	851.9	756.7	617.5	502.3	442.2
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)