

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: P302855

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302855  
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-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28464 lumens  
Efficiency: N/A  
Efficacy: 114.3 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

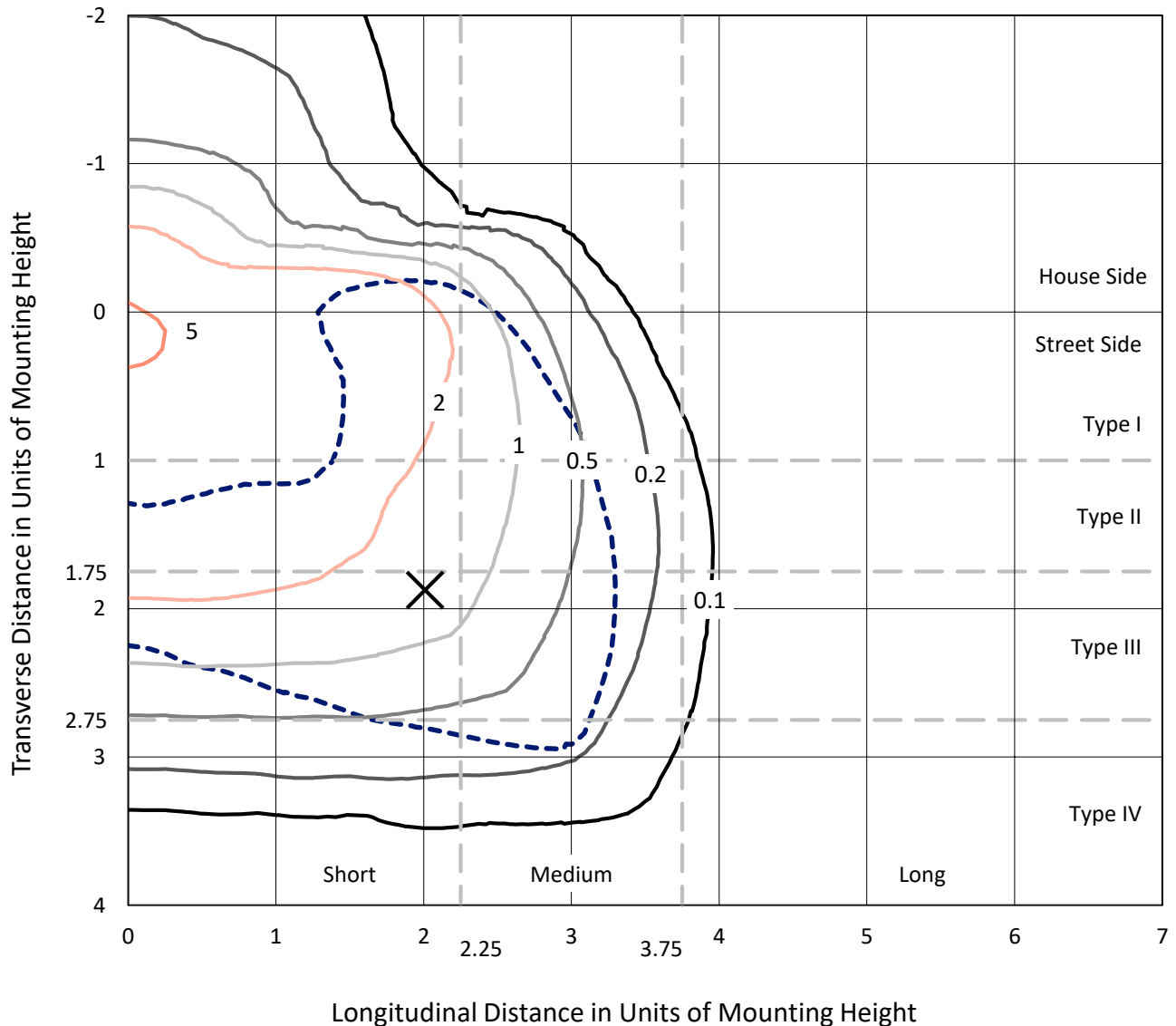
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

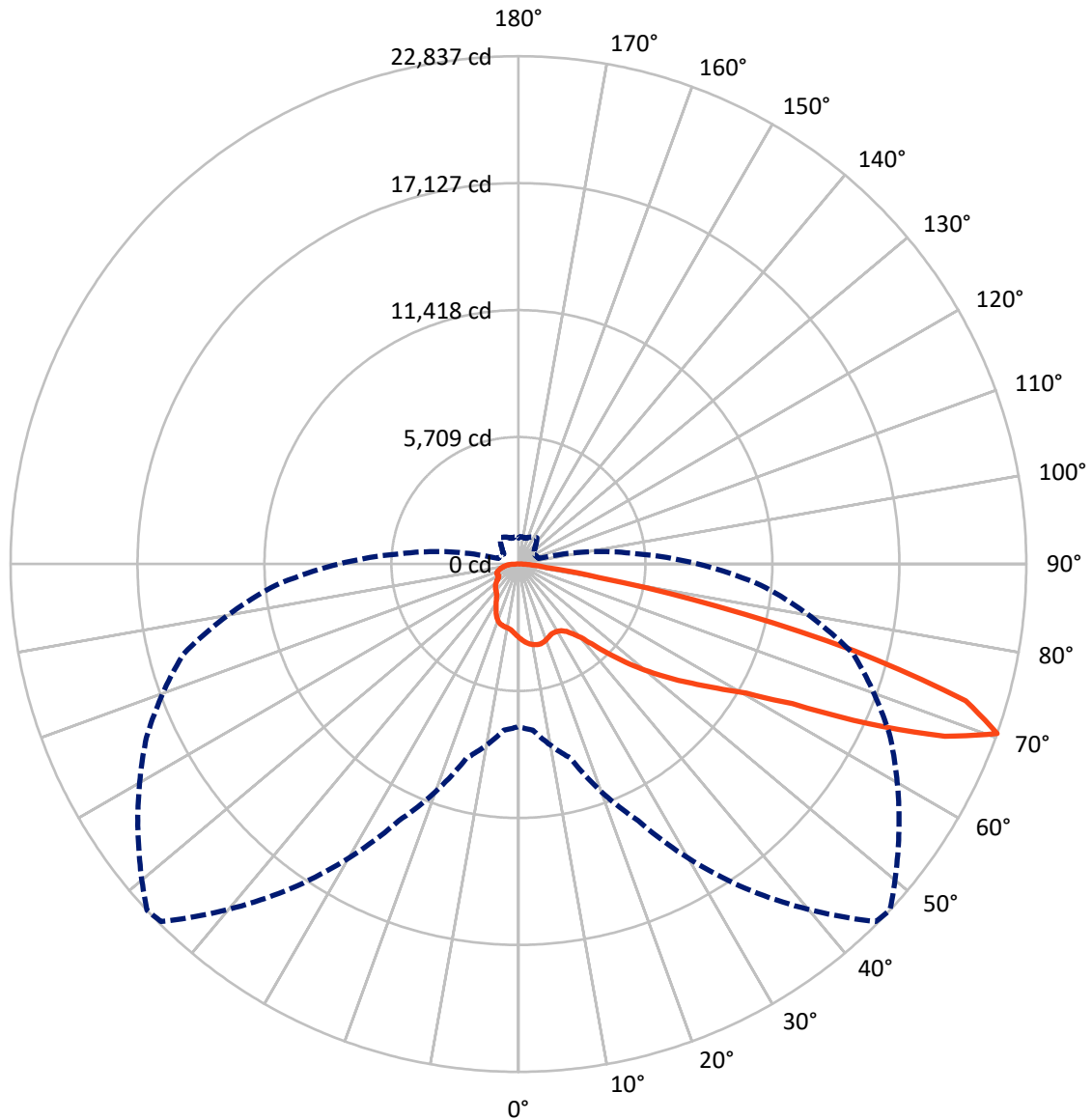
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P302855  
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### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLNA-AF-06-LED-E1-T4W-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5938.2	0.0	5938.2
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	22525.8	0.0	22525.8
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	28464.0	0.0	28464.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.5	1.1
10°-20°	928.4	3.3
20°-30°	1371.0	4.8
30°-40°	1992.7	7.0
40°-50°	3586.2	12.6
50°-60°	6212.7	21.8
60°-70°	8867.3	31.2
70°-80°	4552.0	16.0
80°-90°	637.3	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°	28464.0	100.0
0°-180°	28464.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P302855

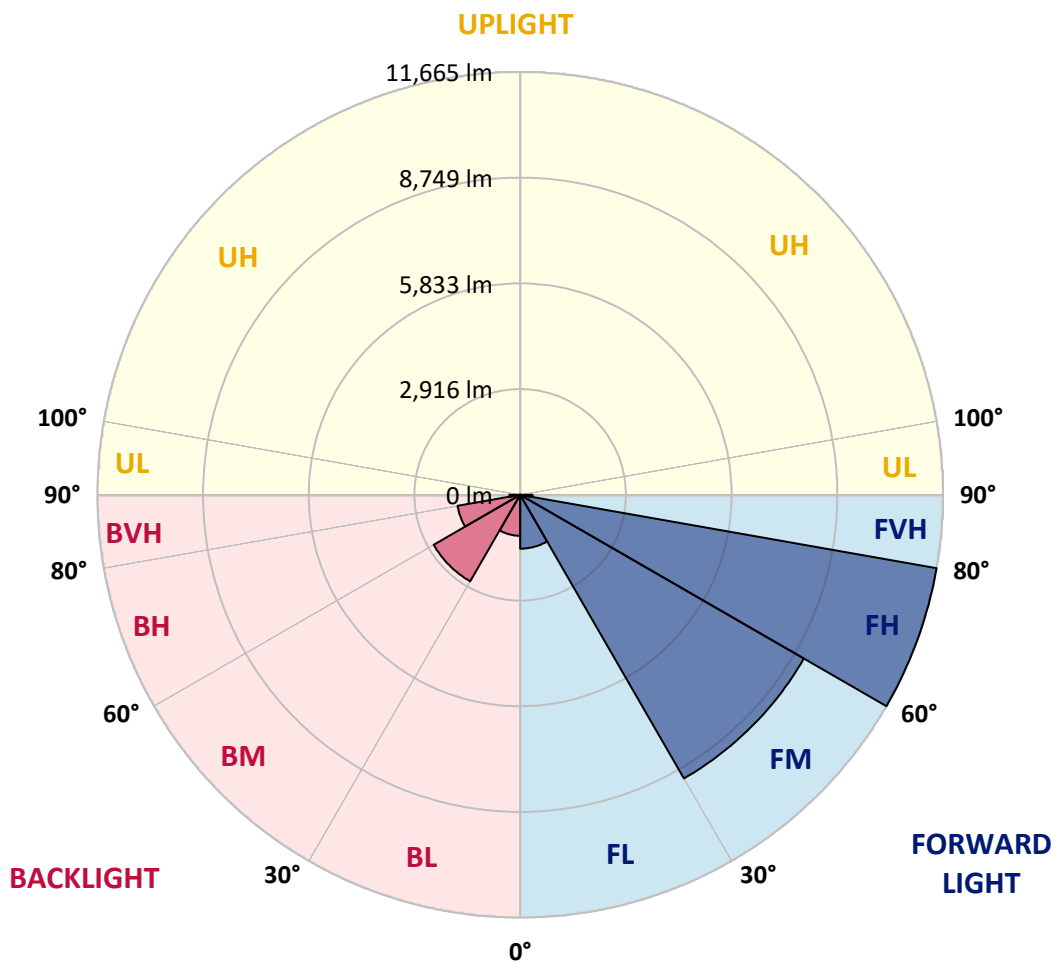
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1485.2	5.2			
FM	(30°-60°)	9035.3	31.7			
FH	(60°-80°)	11665.3	41.0			G4/12000
FVH	(80°-90°)	340.1	1.2			G3/500
BL	(0°-30°)	1130.6	4.0	B3/2500		
BM	(30°-60°)	2756.3	9.7	B3/5000		
BH	(60°-80°)	1754.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	297.2	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





REPORT NUMBER: P302855

CATALOG NUMBER: GLNA-AF-06-LED-E1-T4W-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3302.6	3302.6	3302.6	3302.6	3302.6	3302.6	3302.6	3302.6	3302.6	3302.6	3302.6
2.5°	3496.7	3489.8	3487.1	3481.5	3474.6	3439.7	3432.8	3408.0	3373.5	3337.1	3299.9
5°	3726.7	3725.3	3709.7	3682.1	3637.9	3561.6	3543.6	3482.9	3401.1	3321.9	3243.3
7.5°	3928.6	3916.2	3887.2	3831.5	3754.3	3650.3	3625.5	3540.9	3428.6	3320.6	3213.9
10°	4076.7	4069.8	4006.3	3930.0	3828.8	3713.8	3684.8	3590.5	3467.3	3330.2	3197.3
12.5°	4161.3	4147.5	4073.9	3982.8	3862.3	3750.1	3720.7	3625.5	3487.1	3330.2	3173.9
15°	4155.8	4146.1	4072.5	3972.7	3851.3	3752.9	3726.7	3631.0	3482.9	3316.4	3143.5
17.5°	4044.9	4049.1	3987.0	3888.6	3788.8	3713.8	3690.3	3602.0	3454.9	3288.8	3107.6
20°	3851.3	3870.6	3828.8	3741.8	3686.2	3635.1	3620.0	3545.0	3412.1	3248.8	3068.5
22.5°	3657.2	3675.2	3658.6	3585.0	3576.7	3546.4	3538.1	3484.3	3374.8	3224.0	3045.1
25°	3514.7	3531.2	3528.5	3464.5	3489.8	3488.4	3481.5	3454.9	3366.6	3224.0	3049.2
27.5°	3476.0	3481.5	3476.0	3417.6	3452.1	3480.2	3474.6	3470.0	3391.4	3264.0	3102.1
30°	3608.9	3600.7	3557.4	3439.7	3471.9	3510.5	3505.0	3507.8	3465.9	3369.3	3219.8
32.5°	4139.2	4101.5	3965.8	3635.1	3550.5	3571.2	3574.0	3620.0	3626.9	3531.2	3402.4
35°	4932.6	4891.2	4715.0	4158.5	3795.7	3723.9	3723.9	3792.9	3834.3	3763.9	3686.2
37.5°	5773.3	5727.3	5633.5	4884.3	4310.8	3988.4	3981.5	4029.8	4089.1	4106.1	4125.4
40°	6728.5	6680.2	6706.4	5698.3	5029.6	4446.4	4348.0	4313.5	4474.0	4580.7	4736.2
42.5°	7774.4	7751.8	7761.5	6605.3	5847.8	5132.2	4992.4	4813.4	5007.5	5197.0	5522.6
45°	8742.0	8761.3	8751.7	7576.1	6759.3	5968.3	5820.2	5473.9	5663.8	5989.0	6519.7
47.5°	9589.6	9509.2	9633.8	8636.7	7779.9	6904.7	6721.6	6258.0	6450.3	6851.8	7749.1
50°	10618.5	10607.4	10424.8	10052.3	9013.4	7844.7	7605.1	7067.9	7366.9	7925.2	9299.0
52.5°	11700.2	11499.2	11331.8	11152.9	10322.3	8808.7	8514.8	7875.1	8444.5	9146.3	11187.8
55°	11921.4	11831.7	12039.1	12339.9	11583.8	9809.9	9467.8	8887.4	9657.7	10542.6	13366.0
57.5°	12395.1	12393.7	12823.3	13359.1	12882.6	10871.9	10526.9	10110.3	11021.3	12141.7	15678.4
60°	12715.2	12804.9	13602.8	14642.7	14158.0	12098.9	11781.6	11521.3	12572.6	13929.4	17833.1
62.5°	12882.6	13004.5	14093.1	15163.3	15960.8	14141.4	13824.5	13449.2	14624.8	15890.4	19093.3
65°	12186.3	12425.5	14016.8	15613.6	17539.7	17452.3	17309.7	16650.7	17190.6	17439.9	18638.0
67.5°	10258.4	10503.5	12356.5	15193.7	18666.9	20645.9	20676.3	19550.4	18769.5	17572.8	15670.1
70°	7308.9	7501.2	9034.5	12738.7	17808.3	22732.6	22836.5	20886.5	18454.9	15584.1	10948.2
72.5°	3470.0	3587.8	5039.3	8290.8	14131.7	20828.5	21029.5	19180.7	15692.2	11537.8	5972.4
75°	1275.3	1311.2	1703.1	3527.1	8196.6	15360.2	15597.0	13749.5	10402.3	5744.3	2275.2
77.5°	764.4	787.8	955.7	1488.7	3224.0	8779.7	9129.7	7477.7	4546.2	2138.1	1119.0
80°	534.4	551.0	685.3	926.3	1523.2	3345.9	3657.2	3052.0	1811.1	1353.1	814.0
82.5°	361.5	369.8	482.0	625.9	1012.3	1194.9	1289.1	1357.2	1221.5	1006.7	516.5
85°	236.9	245.1	327.0	412.5	643.9	617.7	631.5	798.9	891.8	683.9	286.5
87.5°	135.7	141.2	196.8	220.3	316.0	261.7	264.4	420.8	570.8	461.3	174.3
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: P302855

CATALOG NUMBER: GLNA-AF-06-LED-E1-T4W-800

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3302.6	3302.6	3302.6	3302.6	3302.6	3302.6	3302.6	3302.6	3302.6	3302.6	3302.6
2.5°	3290.2	3272.3	3232.3	3207.0	3183.5	3178.0	3168.3	3167.0	3165.6	3165.6	3161.4
5°	3216.6	3186.3	3124.2	3089.2	3060.3	3057.5	3056.1	3063.0	3065.8	3068.5	3064.4
7.5°	3169.7	3128.3	3050.6	3000.9	2966.4	2957.7	2972.0	3003.7	3024.4	3032.7	3028.5
10°	3140.7	3089.2	2999.6	2945.3	2916.3	2912.2	2930.1	2967.8	3010.6	3027.1	3025.8
12.5°	3107.6	3049.2	2953.6	2897.0	2880.4	2888.7	2912.2	2946.7	2991.3	3017.5	3018.9
15°	3074.1	3006.4	2908.0	2858.4	2851.5	2862.5	2884.6	2910.8	2945.3	2972.0	2974.7
17.5°	3034.0	2963.2	2865.3	2813.7	2808.2	2813.7	2815.1	2828.9	2851.5	2876.3	2883.2
20°	2991.3	2919.1	2816.5	2765.5	2740.6	2718.5	2693.2	2696.0	2702.9	2728.2	2733.7
22.5°	2960.5	2888.7	2779.3	2708.4	2642.2	2575.5	2525.8	2518.9	2521.7	2542.4	2549.3
25°	2963.2	2887.3	2769.6	2647.7	2502.4	2395.7	2329.0	2318.0	2316.6	2331.8	2341.9
27.5°	3017.5	2941.1	2805.5	2585.2	2350.2	2191.9	2121.6	2113.3	2102.3	2106.4	2117.4
30°	3138.0	3067.2	2892.9	2521.7	2185.0	1992.8	1919.2	1910.9	1895.8	1888.9	1897.1
32.5°	3334.4	3276.4	3020.2	2460.5	2020.4	1822.2	1747.7	1729.7	1720.1	1711.8	1718.7
35°	3661.4	3636.5	3190.4	2394.3	1875.1	1690.6	1623.0	1595.4	1581.6	1596.8	1607.9
37.5°	4173.7	4187.5	3413.5	2290.4	1762.8	1603.7	1546.7	1515.0	1494.3	1506.7	1519.1
40°	4899.4	4909.1	3660.0	2143.7	1665.8	1552.2	1491.5	1462.5	1433.1	1411.0	1409.6
42.5°	5851.9	5754.0	3902.4	1984.5	1553.6	1520.5	1452.9	1416.5	1372.4	1311.2	1298.8
45°	6981.9	6637.5	4086.3	1801.5	1427.6	1481.8	1409.6	1360.0	1290.5	1224.3	1217.4
47.5°	8283.9	7585.8	4176.5	1612.0	1309.8	1424.8	1357.2	1278.1	1190.7	1157.6	1153.5
50°	9873.4	8711.7	4219.2	1427.6	1207.7	1350.3	1280.9	1188.0	1114.8	1107.9	1103.8
52.5°	11683.6	10066.1	4233.5	1276.7	1123.1	1253.3	1218.8	1128.6	1070.2	1076.2	1076.2
55°	13578.0	11464.7	4044.9	1167.3	1045.4	1153.5	1176.9	1105.2	1056.4	1079.0	1087.2
57.5°	15316.9	12704.2	3452.1	1083.1	972.3	1077.6	1161.7	1127.2	1094.1	1183.8	1189.3
60°	16652.1	13436.3	2578.3	1006.7	918.0	1050.9	1202.2	1211.9	1220.1	1434.5	1463.9
62.5°	16931.7	13193.1	1772.5	947.4	893.2	1073.4	1275.3	1276.7	1267.1	1416.5	1434.5
65°	15648.1	11651.4	1289.1	913.8	872.5	1113.4	1337.9	1308.5	1245.0	1358.6	1325.0
67.5°	12426.8	8778.4	1073.4	889.0	842.1	1110.7	1404.1	1337.9	1232.6	1331.0	1276.7
70°	8066.4	5307.9	955.7	868.3	805.8	1057.8	1442.7	1335.1	1196.2	1238.1	1174.2
72.5°	3935.5	2373.6	876.6	838.0	768.5	984.7	1441.4	1309.8	1159.0	1156.2	1121.7
75°	1539.8	1087.2	804.4	792.0	705.0	901.4	1402.7	1274.0	1114.8	1070.2	1057.8
77.5°	901.4	775.4	713.3	724.4	628.7	818.2	1346.2	1211.9	1053.7	1001.2	987.4
80°	656.3	580.4	608.0	625.9	537.2	735.4	1269.8	1135.5	986.1	1012.3	993.0
82.5°	420.8	373.9	493.0	511.0	447.5	650.8	1186.6	1055.0	890.4	808.5	789.2
85°	214.8	236.9	367.0	389.1	344.9	534.4	1085.9	948.8	782.3	672.9	683.9
87.5°	120.5	161.9	234.1	261.7	243.8	411.2	880.7	782.3	638.4	519.2	457.2
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)