

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: P299185

Luminaire Tested: **GLNA-AF-06-LED-E1-T3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24908.7 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

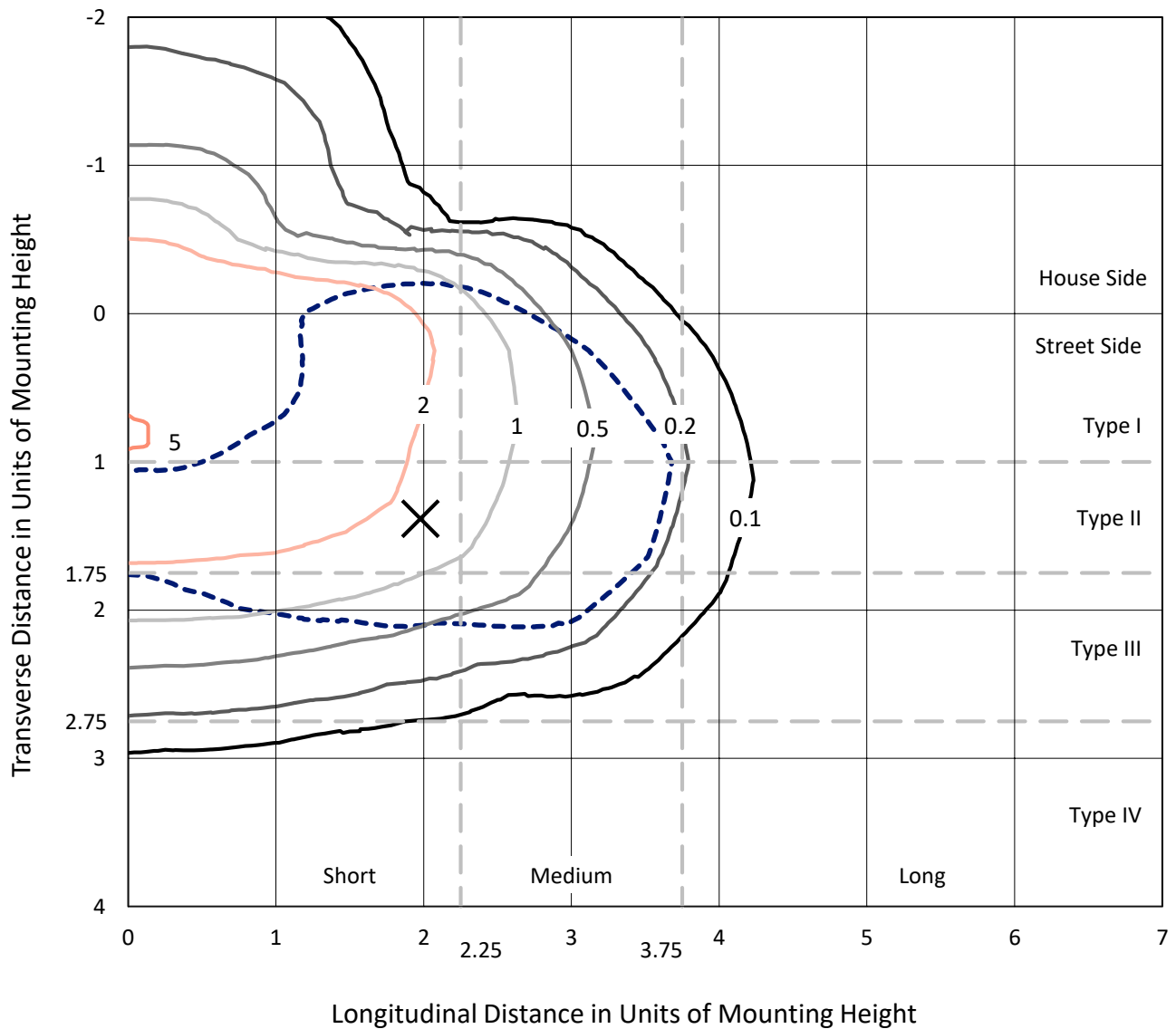
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P299185
 CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7027-800

Iso-Footcandle Lines of Horizontal Illumination

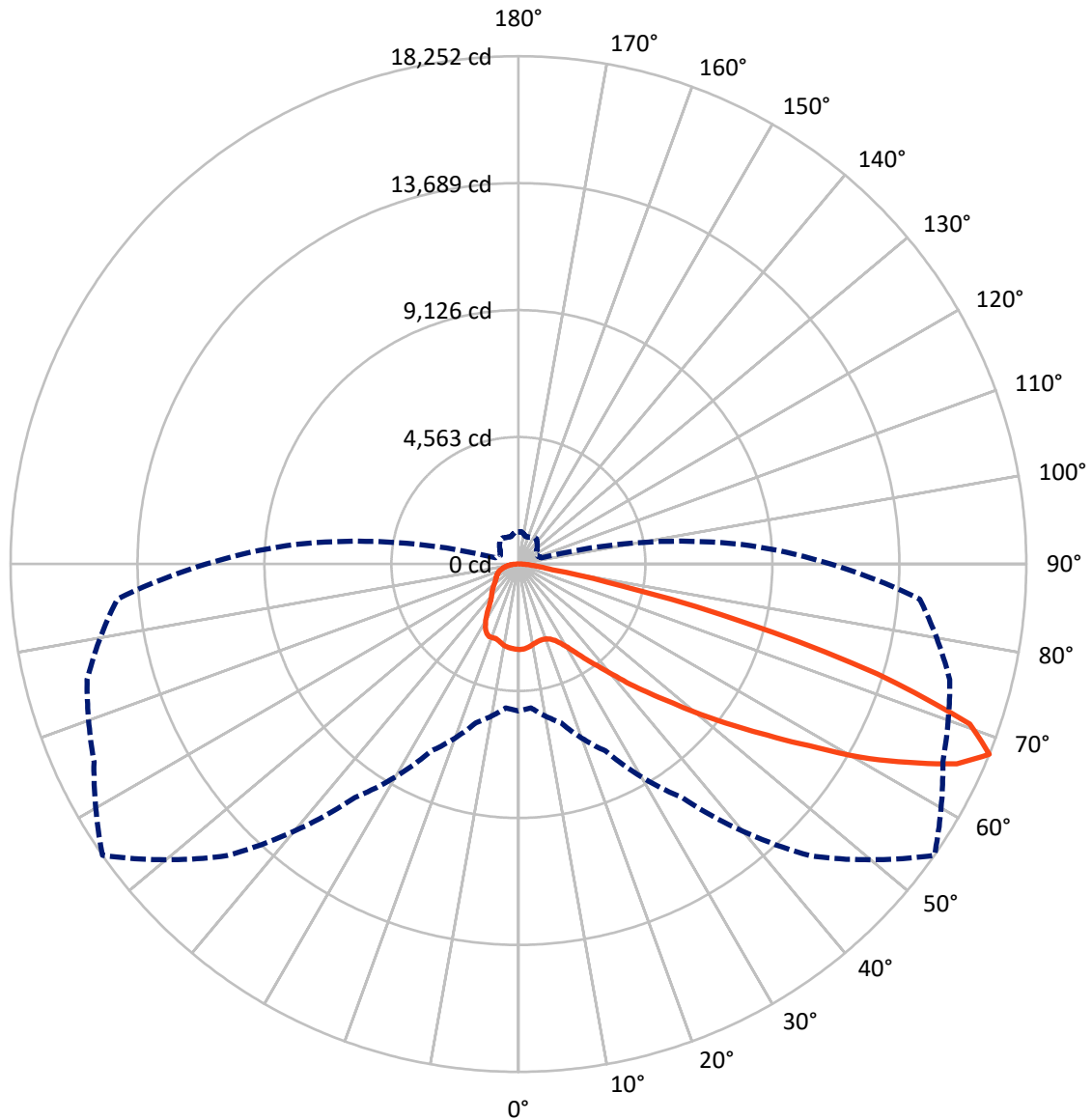
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P299185
CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7027-800

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P299185

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5380.8	0.0	5380.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	19527.9	0.0	19527.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	24908.7	0.0	24908.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.7	1.2
10°-20°	812.0	3.3
20°-30°	1360.1	5.5
30°-40°	2236.6	9.0
40°-50°	3765.0	15.1
50°-60°	5925.8	23.8
60°-70°	7071.8	28.4
70°-80°	3036.7	12.2
80°-90°	414.0	1.7
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°	24908.7	100.0
0°-180°	24908.7	100.0



REPORT NUMBER: P299185

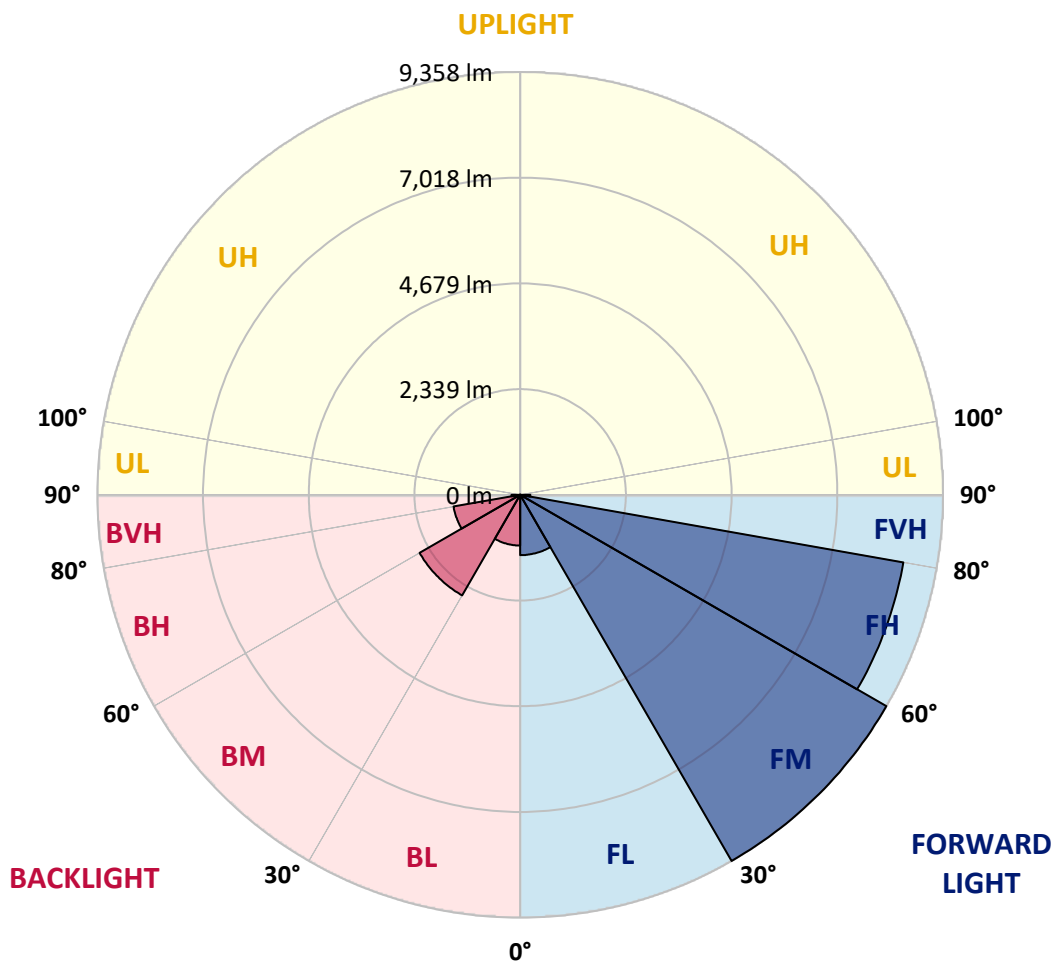
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1335.2	5.4			
FM (30°-60°)	9357.5	37.6			
FH (60°-80°)	8611.0	34.6			G4/12000
FVH (80°-90°)	224.1	0.9			G2/225
BL (0°-30°)	1123.6	4.5	B3/2500		
BM (30°-60°)	2569.8	10.3	B3/5000		
BH (60°-80°)	1497.5	6.0	B3/2500		G3/2500
BVH (80°-90°)	189.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P299185

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5
2.5°	3045.0	3046.2	3048.7	3058.3	3066.7	3064.3	3065.5	3060.7	3059.5	3052.3	3059.5
5°	3006.5	3010.2	3011.4	3027.0	3036.6	3039.0	3035.4	3029.4	3022.2	3015.0	3018.6
7.5°	2918.7	2928.3	2929.5	2951.2	2966.8	2987.3	2988.5	2989.7	2986.1	2981.3	2988.5
10°	2863.4	2865.8	2864.6	2880.2	2892.2	2915.1	2928.3	2951.2	2960.8	2963.2	2968.0
12.5°	2859.8	2857.4	2853.7	2853.7	2850.1	2859.8	2883.8	2916.3	2939.2	2946.4	2952.4
15°	2898.3	2897.1	2885.0	2867.0	2844.1	2836.9	2857.4	2893.5	2923.5	2939.2	2945.2
17.5°	2984.9	2977.7	2958.4	2917.5	2868.2	2848.9	2851.3	2881.4	2916.3	2936.8	2942.8
20°	3143.7	3143.7	3102.8	3025.8	2938.0	2892.2	2870.6	2888.6	2922.3	2950.0	2958.4
22.5°	3418.0	3420.4	3351.8	3225.5	3077.5	2980.1	2925.9	2922.3	2962.0	2993.3	3002.9
25°	3806.6	3797.0	3700.7	3520.3	3295.3	3134.1	3040.2	3018.6	3052.3	3087.1	3099.2
27.5°	4259.0	4224.1	4109.8	3892.0	3600.9	3365.1	3220.7	3185.8	3218.3	3258.0	3270.0
30°	4706.5	4670.4	4534.5	4296.3	3972.6	3674.3	3467.3	3410.8	3456.5	3513.0	3520.3
32.5°	5154.1	5154.1	5002.5	4724.6	4372.1	4043.6	3795.8	3728.4	3804.2	3872.8	3888.4
35°	5689.4	5691.9	5545.1	5210.6	4831.6	4483.9	4210.8	4161.5	4275.8	4323.9	4361.2
37.5°	6347.5	6360.8	6171.9	5767.7	5352.6	4986.8	4662.0	4594.6	4708.9	4840.1	4960.4
40°	7058.6	7075.4	6867.3	6369.2	5954.1	5571.5	5220.2	5098.7	5288.8	5539.1	5694.3
42.5°	7737.1	7823.7	7622.8	7110.3	6664.0	6268.1	5912.0	5735.2	5973.4	6351.2	6485.9
45°	8717.6	8780.2	8430.1	7965.7	7545.8	7103.1	6631.5	6445.0	6778.3	7254.7	7282.4
47.5°	9370.9	9324.0	9146.0	8857.2	8591.3	8177.5	7467.6	7263.1	7705.8	8266.5	8111.3
50°	9718.6	9733.1	9709.0	9725.8	9735.5	9475.6	8492.7	8212.3	8740.5	9417.9	9060.5
52.5°	10043.5	9947.2	10026.6	10421.2	10897.7	10801.4	9607.9	9315.6	9849.8	10695.5	10063.9
55°	10036.2	9889.5	10148.1	10844.7	11878.2	11988.9	10860.4	10523.5	11022.8	12065.9	11127.5
57.5°	9681.3	9688.5	10086.8	10998.7	12561.5	13105.3	12313.7	11808.4	12266.8	13454.2	12098.4
60°	9192.9	9259.0	9832.9	10973.5	13109.0	14020.9	14096.7	13193.2	13485.5	14716.3	12902.0
62.5°	8404.8	8474.6	9266.3	10711.2	13025.9	14902.8	15708.8	14764.4	14759.6	15481.5	13137.8
65°	7162.0	7141.6	7972.9	9730.7	12329.3	15554.9	17310.2	16122.7	15719.7	15493.5	12663.8
67.5°	5281.6	5190.2	5903.6	7411.1	10248.0	14824.6	18252.2	16830.1	16046.9	14474.5	11215.3
70°	2740.7	2649.2	3226.7	4327.5	6739.8	11570.2	17209.1	16464.4	15323.9	12133.2	8786.2
72.5°	1171.8	1156.2	1390.8	1898.5	3260.4	6673.6	13493.9	14250.7	13148.7	9040.1	6040.8
75°	788.0	783.2	871.0	1034.7	1466.6	2708.2	8444.5	10115.6	9620.0	5605.2	3397.5
77.5°	618.4	612.4	664.1	743.5	950.4	1068.4	3747.6	5430.8	5026.5	2439.9	1487.0
80°	483.6	478.8	511.3	554.6	683.4	673.7	1233.2	2160.8	1672.3	934.8	723.1
82.5°	381.4	381.4	407.9	409.1	484.8	459.6	643.7	951.7	834.9	545.0	442.7
85°	348.9	348.9	376.6	305.6	316.4	289.9	399.4	564.3	529.4	223.8	192.5
87.5°	175.7	170.8	316.4	270.7	172.0	154.0	194.9	273.1	293.6	123.9	96.2
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: P299185

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7027-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5
2.5°	3057.1	3055.9	3058.3	3059.5	3069.1	3082.3	3088.4	3096.8	3101.6	3099.2
5°	3021.0	3023.4	3033.0	3040.2	3057.1	3078.7	3090.8	3100.4	3108.8	3105.2
7.5°	2990.9	2996.9	3011.4	3017.4	3027.0	3033.0	3031.8	3035.4	3042.6	3034.2
10°	2974.1	2981.3	2992.1	2983.7	2960.8	2928.3	2898.3	2882.6	2887.4	2881.4
12.5°	2957.2	2966.8	2958.4	2918.7	2855.0	2812.8	2790.0	2792.4	2803.2	2805.6
15°	2947.6	2951.2	2915.1	2840.5	2775.5	2769.5	2781.6	2779.2	2780.4	2780.4
17.5°	2947.6	2938.0	2870.6	2796.0	2768.3	2757.5	2720.2	2673.3	2652.8	2645.6
20°	2963.2	2938.0	2856.2	2806.8	2746.7	2654.0	2555.4	2468.8	2430.3	2419.4
22.5°	3010.2	2966.8	2897.1	2811.6	2640.8	2485.6	2329.2	2225.7	2156.0	2143.9
25°	3105.2	3057.1	2977.7	2747.9	2472.4	2251.0	2072.9	1957.4	1887.7	1878.0
27.5°	3271.2	3239.9	3021.0	2607.1	2248.6	2011.6	1846.8	1757.7	1706.0	1702.4
30°	3521.5	3505.8	2999.3	2399.0	1973.1	1779.4	1700.0	1648.2	1609.7	1608.5
32.5°	3920.9	3794.6	2928.3	2145.1	1721.6	1614.6	1582.1	1550.8	1520.7	1520.7
35°	4434.6	4028.0	2793.6	1873.2	1568.8	1523.1	1482.2	1432.9	1393.2	1390.8
37.5°	5038.6	4172.3	2551.8	1654.3	1496.7	1461.8	1401.6	1328.2	1258.4	1246.4
40°	5648.5	4215.7	2211.3	1519.5	1450.9	1400.4	1327.0	1240.4	1173.0	1169.4
42.5°	6208.0	4132.6	1850.4	1426.9	1405.2	1337.8	1260.8	1183.8	1130.9	1129.7
45°	6677.2	3917.3	1547.2	1339.0	1357.1	1281.3	1212.7	1150.2	1109.3	1100.8
47.5°	7118.7	3612.9	1334.2	1246.4	1309.0	1250.0	1192.3	1133.3	1093.6	1087.6
50°	7631.2	3284.5	1185.1	1156.2	1266.9	1239.2	1209.1	1147.8	1081.6	1074.4
52.5°	8252.0	3000.5	1068.4	1076.8	1234.4	1253.6	1252.4	1188.7	1073.2	1063.5
55°	8945.0	2685.3	980.5	1011.8	1221.1	1280.1	1263.3	1227.2	1080.4	1065.9
57.5°	9627.2	2317.2	919.2	962.5	1201.9	1277.7	1211.5	1159.8	1097.2	1076.8
60°	10138.5	1822.7	872.2	919.2	1159.8	1238.0	1155.0	1086.4	1093.6	1078.0
62.5°	10172.2	1408.8	815.7	881.9	1096.0	1198.3	1117.7	1053.9	1109.3	1094.8
65°	9574.3	1064.7	761.6	837.4	1027.4	1173.0	1081.6	1035.9	1141.7	1126.1
67.5°	8060.8	856.6	715.8	791.6	958.9	1120.1	1049.1	1019.0	1170.6	1142.9
70°	5819.4	730.3	671.3	736.3	897.5	1059.9	1020.2	988.9	1092.4	1049.1
72.5°	3582.8	632.8	620.8	662.9	850.6	997.4	976.9	932.4	984.1	949.2
75°	1789.0	548.6	564.3	590.7	784.4	926.4	904.7	860.2	867.4	860.2
77.5°	856.6	469.2	498.1	518.5	699.0	845.8	822.9	777.2	768.8	770.0
80°	542.6	392.2	419.9	434.3	624.4	751.9	729.1	683.4	779.6	723.1
82.5°	339.3	318.8	326.0	352.5	543.8	654.5	624.4	583.5	702.6	555.8
85°	187.7	222.6	232.2	255.1	418.7	547.4	517.3	465.6	417.5	410.3
87.5°	111.9	132.3	136.0	152.8	281.5	395.8	350.1	332.1	275.5	274.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)