

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: P191452

Luminaire Tested: **GLEON-AF-04-LED-E1-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191452
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: GLEON-AF-04-LED-E1-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24568.2 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 225
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

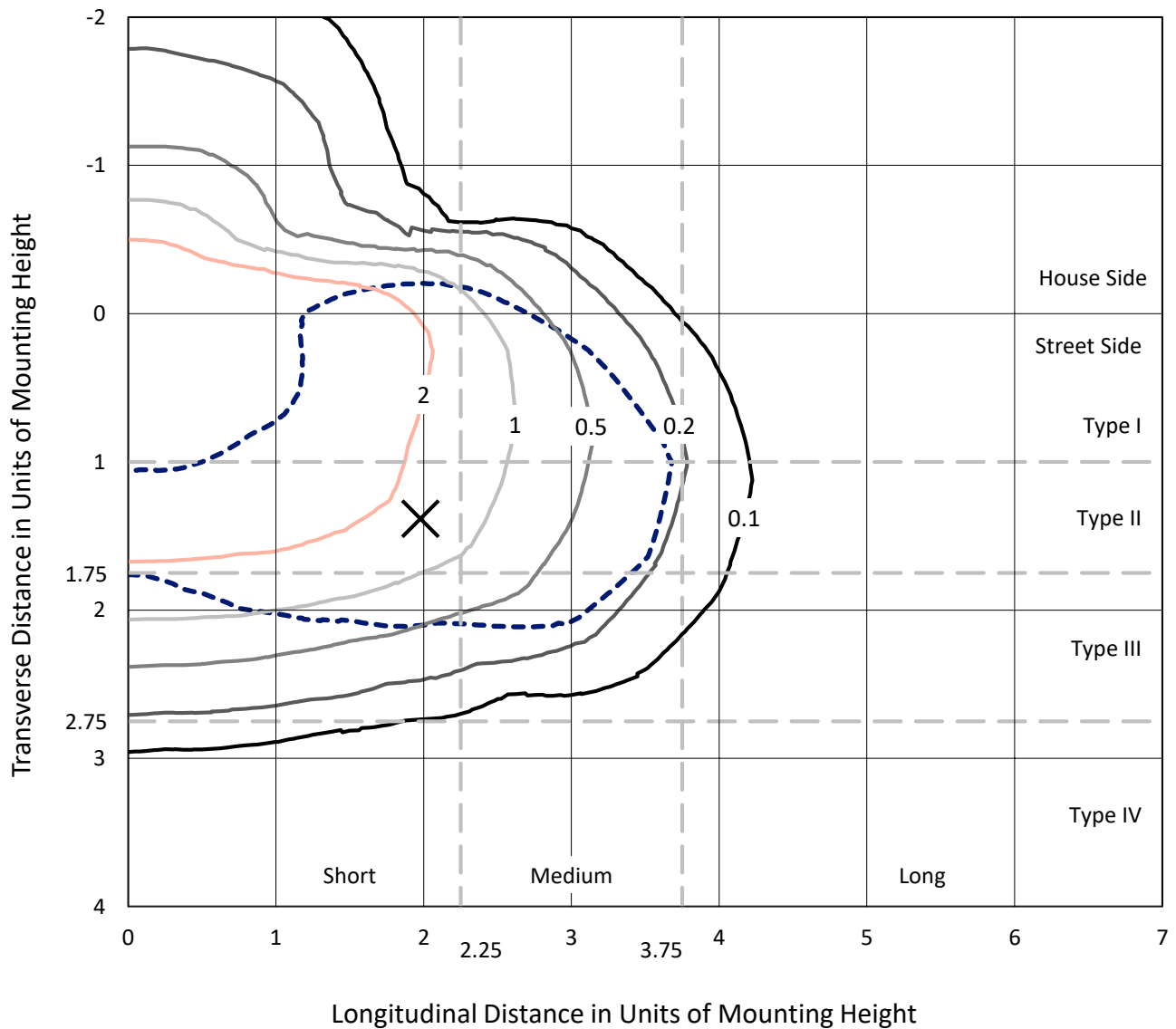


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

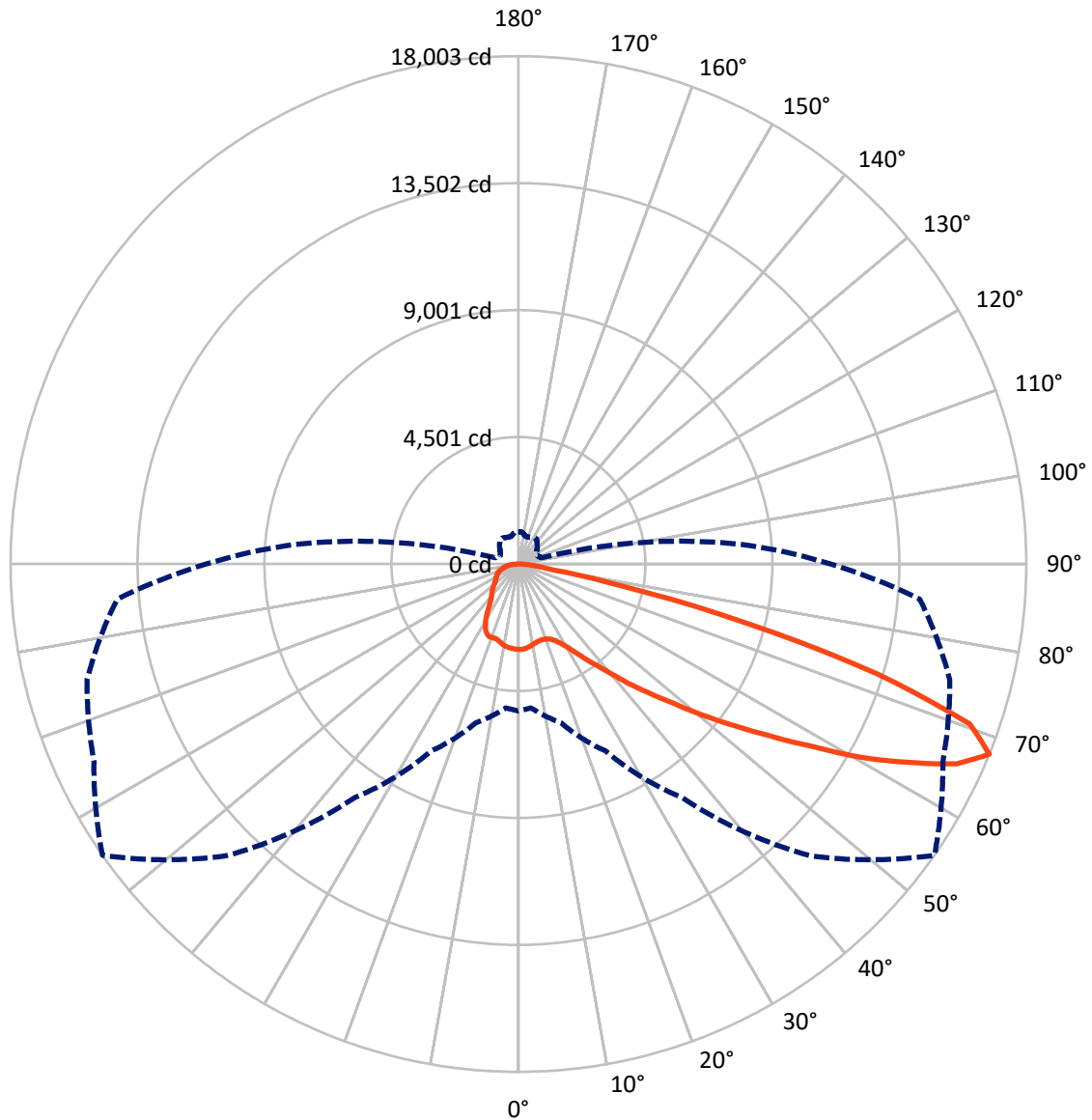


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5307.3	0.0	5307.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	19261.0	0.0	19261.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	24568.2	0.0	24568.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.8	1.2
10°-20°	800.9	3.3
20°-30°	1341.5	5.5
30°-40°	2206.1	9.0
40°-50°	3713.5	15.1
50°-60°	5844.8	23.8
60°-70°	6975.1	28.4
70°-80°	2995.2	12.2
80°-90°	408.4	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°	24568.2	100.0
0°-180°	24568.2	100.0



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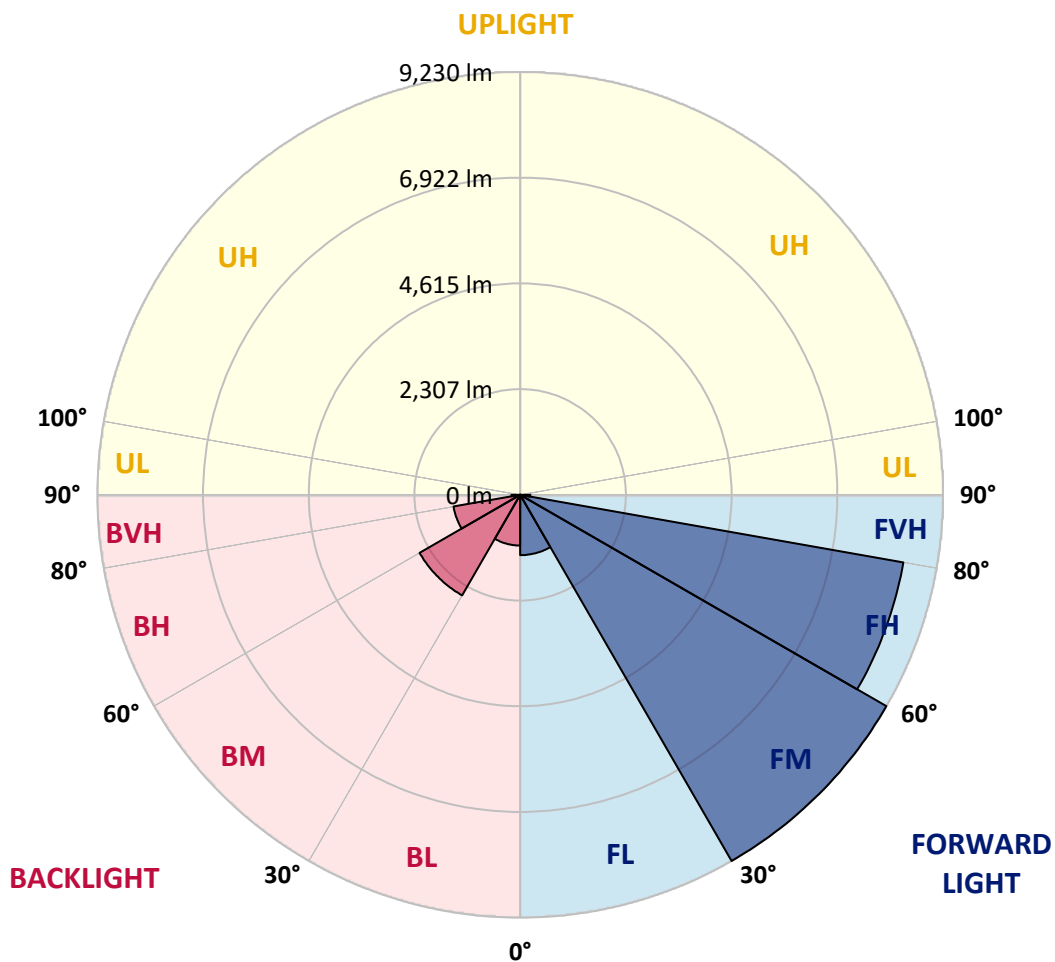
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1316.9	5.4			
FM	(30°-60°)	9229.6	37.6			
FH	(60°-80°)	8493.3	34.6			G4/12000
FVH	(80°-90°)	221.1	0.9			G2/225
BL	(0°-30°)	1108.3	4.5	B3/2500		
BM	(30°-60°)	2534.7	10.3	B3/5000		
BH	(60°-80°)	1477.0	6.0	B3/2500		G3/2500
BVH	(80°-90°)	187.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3029.6	3029.6	3029.6	3029.6	3029.6	3029.6	3029.6	3029.6	3029.6	3029.6	3029.6
2.5°	3003.4	3004.6	3007.0	3016.5	3024.8	3022.4	3023.6	3018.8	3017.7	3010.5	3017.7
5°	2965.4	2969.0	2970.2	2985.6	2995.1	2997.5	2994.0	2988.0	2980.9	2973.7	2977.3
7.5°	2878.8	2888.3	2889.5	2910.9	2926.3	2946.5	2947.6	2948.9	2945.3	2940.6	2947.6
10°	2824.3	2826.6	2825.4	2840.8	2852.7	2875.3	2888.3	2910.9	2920.3	2922.8	2927.5
12.5°	2820.7	2818.3	2814.8	2814.8	2811.2	2820.7	2844.4	2876.4	2899.0	2906.1	2912.0
15°	2858.6	2857.5	2845.6	2827.8	2805.2	2798.2	2818.3	2853.9	2883.6	2899.0	2905.0
17.5°	2944.1	2937.0	2918.0	2877.7	2829.0	2810.0	2812.4	2842.1	2876.4	2896.6	2902.5
20°	3100.8	3100.8	3060.4	2984.5	2897.8	2852.7	2831.3	2849.1	2882.4	2909.7	2918.0
22.5°	3371.2	3373.7	3306.0	3181.4	3035.5	2939.3	2885.9	2882.4	2921.5	2952.4	2961.9
25°	3754.5	3745.1	3650.2	3472.1	3250.2	3091.3	2998.7	2977.3	3010.5	3044.9	3056.8
27.5°	4200.7	4166.4	4053.6	3838.8	3551.7	3319.1	3176.7	3142.3	3174.3	3213.5	3225.4
30°	4642.2	4606.6	4472.5	4237.6	3918.3	3624.0	3419.9	3364.2	3409.3	3465.0	3472.1
32.5°	5083.7	5083.7	4934.1	4660.0	4312.4	3988.4	3743.9	3677.4	3752.2	3819.8	3835.2
35°	5611.7	5614.1	5469.3	5139.4	4765.6	4422.6	4153.3	4104.6	4217.3	4264.9	4301.6
37.5°	6260.8	6273.9	6087.6	5688.8	5279.4	4918.7	4598.3	4531.9	4644.6	4773.9	4892.6
40°	6962.1	6978.7	6773.5	6282.1	5872.8	5495.4	5148.9	5029.0	5216.5	5463.4	5616.4
42.5°	7631.4	7716.8	7518.7	7013.1	6572.9	6182.5	5831.2	5656.8	5891.8	6264.3	6397.2
45°	8598.5	8660.2	8314.9	7856.9	7442.7	7006.0	6540.8	6356.9	6685.6	7155.5	7182.9
47.5°	9242.9	9196.5	9021.0	8736.1	8473.9	8065.7	7365.6	7163.8	7600.5	8153.5	8000.4
50°	9585.8	9600.0	9576.3	9592.9	9602.4	9346.1	8376.6	8100.1	8621.0	9289.1	8936.7
52.5°	9906.2	9811.2	9889.6	10278.8	10748.8	10653.8	9476.6	9188.2	9715.2	10549.4	9926.4
55°	9899.1	9754.3	10009.5	10696.5	11715.9	11825.0	10711.9	10379.7	10872.1	11900.9	10975.3
57.5°	9549.0	9556.1	9948.9	10848.4	12389.9	12926.2	12145.4	11647.0	12099.2	13270.3	11933.0
60°	9067.2	9132.5	9698.5	10823.4	12929.8	13829.3	13904.0	13012.9	13301.2	14515.2	12725.7
62.5°	8290.0	8358.8	9139.7	10564.8	12848.0	14699.1	15494.1	14562.6	14557.9	15269.9	12958.2
65°	7064.2	7043.9	7863.9	9597.6	12160.8	15342.2	17073.6	15902.4	15504.9	15281.8	12490.7
67.5°	5209.4	5119.3	5822.9	7309.8	10107.9	14622.0	18002.7	16600.1	15827.6	14276.6	11062.0
70°	2703.1	2613.0	3182.6	4268.4	6647.6	11412.0	16973.9	16239.3	15114.4	11967.4	8666.1
72.5°	1155.8	1140.4	1371.8	1872.5	3215.9	6582.4	13309.5	14056.0	12969.0	8916.6	5958.2
75°	777.2	772.5	859.2	1020.5	1446.6	2671.1	8329.2	9977.4	9488.5	5528.6	3351.1
77.5°	610.0	604.1	655.0	733.4	937.4	1053.7	3696.4	5356.6	4957.8	2406.5	1466.7
80°	477.0	472.3	504.3	547.1	674.0	664.5	1216.3	2131.2	1649.4	922.0	713.2
82.5°	376.1	376.1	402.3	403.5	478.2	453.3	634.8	938.7	823.6	537.6	436.7
85°	344.1	344.1	371.4	301.4	312.1	286.0	393.9	556.6	522.1	220.8	189.9
87.5°	173.3	168.5	312.1	267.0	169.7	151.9	192.2	269.3	289.5	122.2	94.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3029.6	3029.6	3029.6	3029.6	3029.6	3029.6	3029.6	3029.6	3029.6	3029.6
2.5°	3015.2	3014.1	3016.5	3017.7	3027.1	3040.2	3046.1	3054.4	3059.2	3056.8
5°	2979.7	2982.1	2991.5	2998.7	3015.2	3036.6	3048.5	3058.0	3066.3	3062.7
7.5°	2950.0	2955.9	2970.2	2976.2	2985.6	2991.5	2990.4	2994.0	3001.0	2992.7
10°	2933.4	2940.6	2951.2	2942.9	2920.3	2888.3	2858.6	2843.2	2848.0	2842.1
12.5°	2916.8	2926.3	2918.0	2878.8	2816.0	2774.4	2751.8	2754.2	2764.9	2767.3
15°	2907.3	2910.9	2875.3	2801.7	2737.6	2731.7	2743.6	2741.2	2742.3	2742.3
17.5°	2907.3	2897.8	2831.3	2757.8	2730.5	2719.8	2683.0	2636.8	2616.6	2609.4
20°	2922.8	2897.8	2817.1	2768.5	2709.2	2617.7	2520.4	2435.0	2397.1	2386.3
22.5°	2969.0	2926.3	2857.5	2773.2	2604.7	2451.6	2297.3	2195.4	2126.5	2114.6
25°	3062.7	3015.2	2937.0	2710.3	2438.6	2220.2	2044.6	1930.7	1861.9	1852.4
27.5°	3226.5	3195.7	2979.7	2571.5	2217.9	1984.1	1821.5	1733.7	1682.7	1679.1
30°	3473.3	3457.9	2958.4	2366.2	1946.2	1755.1	1676.7	1625.7	1587.7	1586.6
32.5°	3867.3	3742.7	2888.3	2115.8	1698.1	1592.5	1560.4	1529.6	1500.0	1500.0
35°	4374.0	3972.9	2755.4	1847.7	1547.4	1502.3	1462.0	1413.3	1374.1	1371.8
37.5°	4969.7	4115.3	2516.9	1631.6	1476.2	1441.7	1382.4	1310.1	1241.2	1229.4
40°	5571.3	4158.0	2181.0	1498.7	1431.1	1381.3	1308.9	1223.4	1157.0	1153.4
42.5°	6123.2	4076.2	1825.0	1407.4	1386.0	1319.6	1243.6	1167.7	1115.4	1114.3
45°	6586.0	3863.8	1526.0	1320.7	1338.5	1263.8	1196.1	1134.5	1094.0	1085.8
47.5°	7021.4	3563.6	1316.0	1229.4	1291.1	1233.0	1176.0	1117.8	1078.7	1072.8
50°	7527.0	3239.6	1168.8	1140.4	1249.5	1222.2	1192.6	1132.1	1066.8	1059.7
52.5°	8139.3	2959.5	1053.7	1062.0	1217.5	1236.5	1235.3	1172.4	1058.4	1049.0
55°	8822.7	2648.6	967.1	998.0	1204.4	1262.6	1246.0	1210.4	1065.6	1051.4
57.5°	9495.6	2285.5	906.6	949.3	1185.5	1260.3	1195.0	1144.0	1082.2	1062.0
60°	10000.0	1797.7	860.3	906.6	1144.0	1221.1	1139.2	1071.5	1078.7	1063.3
62.5°	10033.2	1389.6	804.6	869.8	1081.1	1181.9	1102.4	1039.5	1094.0	1079.8
65°	9443.4	1050.2	751.2	825.9	1013.4	1157.0	1066.8	1021.7	1126.2	1110.7
67.5°	7950.6	844.9	706.0	780.8	945.7	1104.8	1034.7	1005.0	1154.6	1127.3
70°	5739.9	720.3	662.2	726.2	885.3	1045.5	1006.3	975.4	1077.5	1034.7
72.5°	3533.9	624.2	612.3	653.9	838.9	983.8	963.5	919.6	970.7	936.3
75°	1764.6	541.1	556.6	582.7	773.7	913.7	892.3	848.4	855.6	848.4
77.5°	844.9	462.8	491.3	511.5	689.5	834.2	811.7	766.6	758.3	759.4
80°	535.2	386.9	414.2	428.4	615.9	741.6	719.1	674.0	769.0	713.2
82.5°	334.6	314.5	321.6	347.7	536.3	645.6	615.9	575.5	693.0	548.2
85°	185.2	219.5	229.0	251.5	413.0	539.9	510.2	459.2	411.7	404.7
87.5°	110.4	130.5	134.1	150.7	277.6	390.5	345.3	327.5	271.7	270.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)