

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: P299246

Luminaire Tested: **GLNA-AF-06-LED-E1-T3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299246
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-T3-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22612.3 lumens
Efficiency: N/A
Efficacy: 117.2 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): 193
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

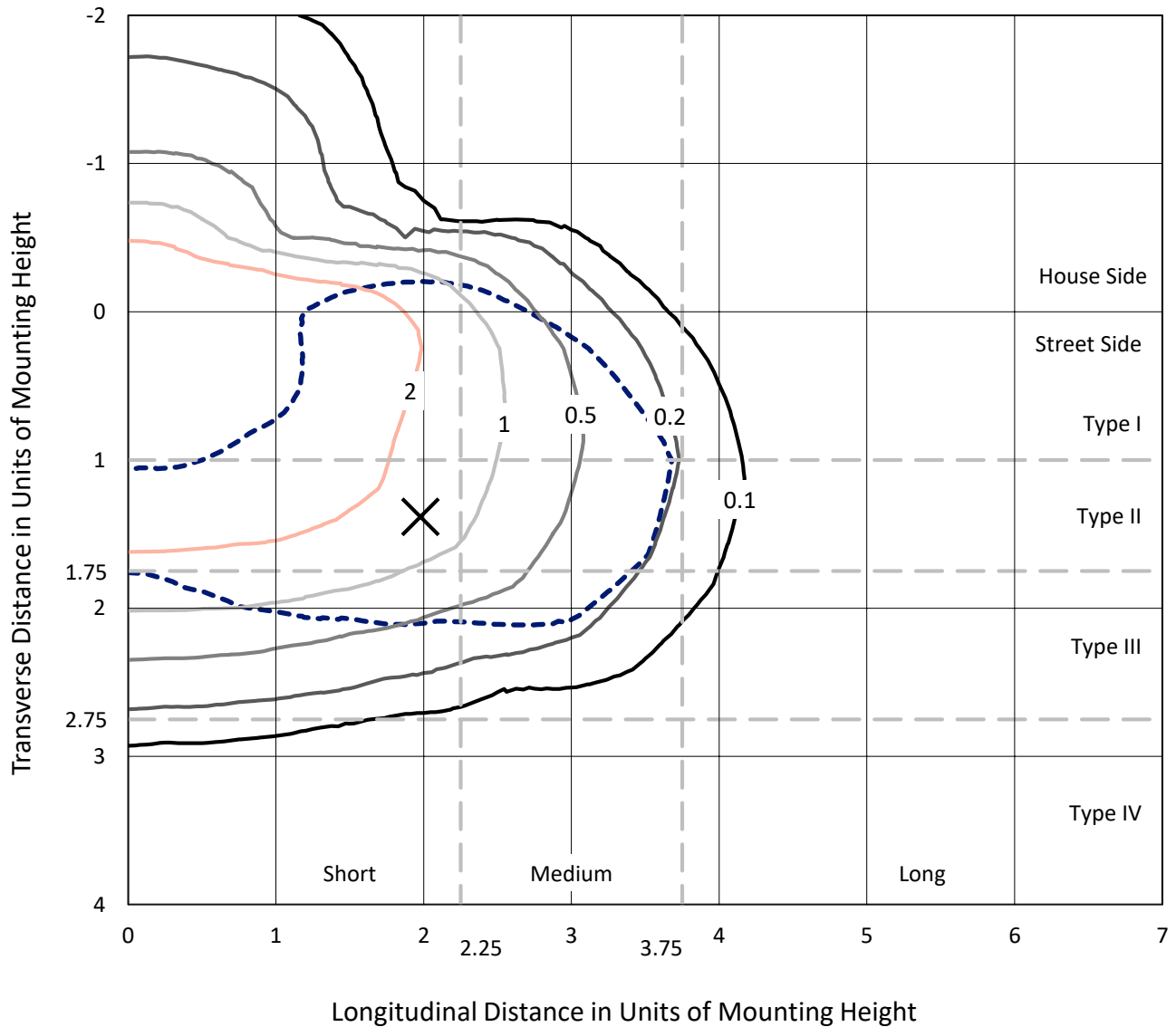


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

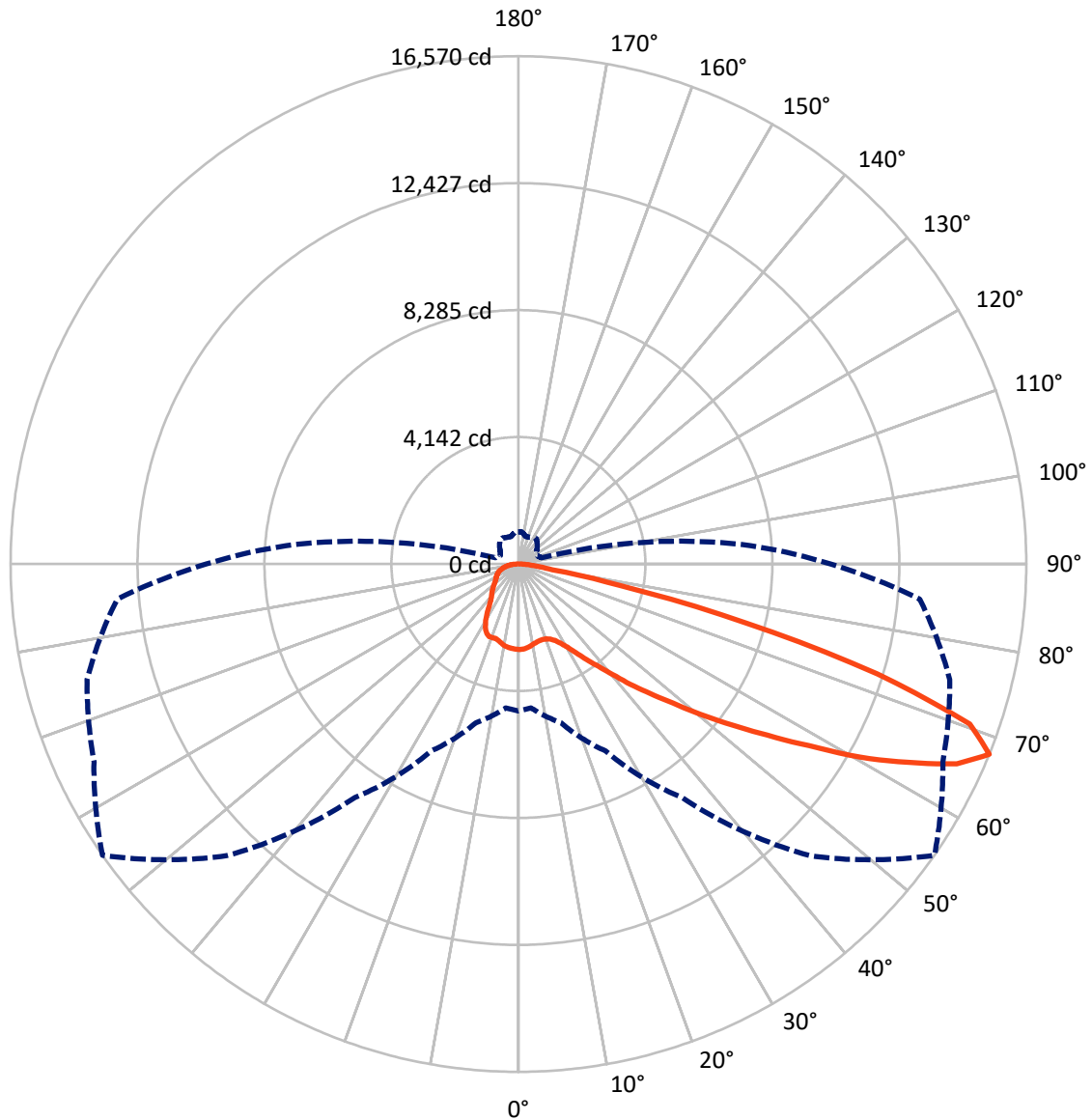


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - Full Cutoff

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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	4884.7	0.0	4884.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	17727.6	0.0	17727.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	22612.3	0.0	22612.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.3	1.2
10°-20°	737.1	3.3
20°-30°	1234.7	5.5
30°-40°	2030.4	9.0
40°-50°	3417.9	15.1
50°-60°	5379.5	23.8
60°-70°	6419.8	28.4
70°-80°	2756.8	12.2
80°-90°	375.9	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°	22612.3	100.0
0°-180°	22612.3	100.0



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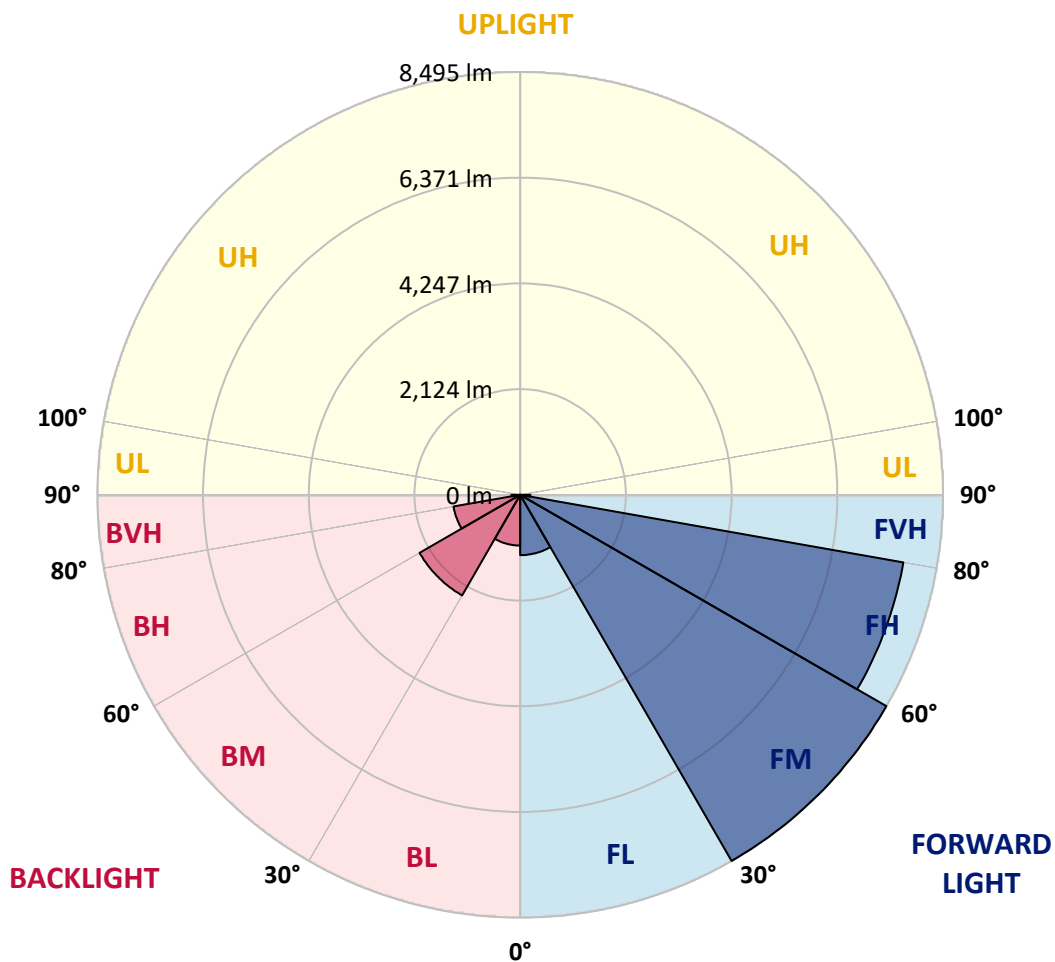
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1212.1	5.4			
FM	(30°-60°)	8494.9	37.6			
FH	(60°-80°)	7817.2	34.6			G4/12000
FVH	(80°-90°)	203.5	0.9			G2/225
BL	(0°-30°)	1020.0	4.5	B3/2500		
BM	(30°-60°)	2332.9	10.3	B2/2500		
BH	(60°-80°)	1359.4	6.0	B3/2500		G3/2500
BVH	(80°-90°)	172.4	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°	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3
2.5°	2764.3	2765.4	2767.6	2776.3	2784.0	2781.8	2782.9	2778.5	2777.4	2770.9	2777.4
5°	2729.4	2732.6	2733.7	2747.9	2756.7	2758.9	2755.6	2750.1	2743.6	2737.0	2740.3
7.5°	2649.6	2658.4	2659.5	2679.1	2693.3	2711.9	2713.0	2714.1	2710.8	2706.4	2713.0
10°	2599.4	2601.6	2600.5	2614.7	2625.6	2646.4	2658.4	2679.1	2687.9	2690.1	2694.4
12.5°	2596.1	2593.9	2590.7	2590.7	2587.4	2596.1	2618.0	2647.5	2668.2	2674.8	2680.2
15°	2631.1	2630.0	2619.1	2602.7	2581.9	2575.4	2593.9	2626.7	2654.0	2668.2	2673.7
17.5°	2709.7	2703.2	2685.7	2648.5	2603.8	2586.3	2588.5	2615.8	2647.5	2666.0	2671.5
20°	2853.9	2853.9	2816.7	2746.8	2667.1	2625.6	2606.0	2622.3	2652.9	2678.0	2685.7
22.5°	3102.9	3105.1	3042.8	2928.1	2793.8	2705.3	2656.2	2652.9	2689.0	2717.4	2726.1
25°	3455.7	3446.9	3359.6	3195.7	2991.5	2845.1	2760.0	2740.3	2770.9	2802.5	2813.5
27.5°	3866.3	3834.7	3730.9	3533.2	3268.9	3054.8	2923.8	2892.1	2921.6	2957.6	2968.6
30°	4272.6	4239.9	4116.4	3900.2	3606.4	3335.5	3147.7	3096.3	3137.8	3189.2	3195.7
32.5°	4678.9	4678.9	4541.3	4289.0	3969.0	3670.8	3445.8	3384.7	3453.5	3515.7	3529.9
35°	5164.9	5167.1	5033.9	4730.3	4386.2	4070.6	3822.6	3777.9	3881.6	3925.3	3959.2
37.5°	5762.4	5774.4	5602.9	5235.9	4859.1	4527.1	4232.2	4171.1	4274.8	4393.9	4503.1
40°	6407.8	6423.1	6234.2	5782.0	5405.2	5057.9	4739.0	4628.7	4801.2	5028.4	5169.3
42.5°	7023.8	7102.5	6920.1	6454.8	6049.6	5690.3	5367.0	5206.4	5422.7	5765.6	5888.0
45°	7914.0	7970.8	7652.9	7231.4	6850.2	6448.3	6020.1	5850.8	6153.4	6585.9	6611.0
47.5°	8507.0	8464.4	8302.8	8040.7	7799.3	7423.6	6779.2	6593.5	6995.4	7504.4	7363.5
50°	8822.7	8835.8	8813.9	8829.2	8838.0	8602.0	7709.7	7455.3	7934.7	8549.6	8225.2
52.5°	9117.6	9030.2	9102.3	9460.5	9893.0	9805.6	8722.2	8456.8	8941.7	9709.5	9136.1
55°	9111.0	8977.8	9212.6	9845.0	10783.1	10883.6	9859.2	9553.3	10006.6	10953.5	10101.6
57.5°	8788.8	8795.4	9156.9	9984.8	11403.5	11897.2	11178.5	10719.8	11135.9	12213.9	10983.0
60°	8345.4	8405.5	8926.4	9961.8	11900.4	12728.3	12797.1	11976.9	12242.3	13359.6	11712.6
62.5°	7630.0	7693.3	8412.0	9723.7	11825.1	13528.9	14260.7	13403.3	13398.9	14054.2	11926.7
65°	6501.8	6483.2	7237.9	8833.6	11192.7	14120.9	15714.4	14636.4	14270.5	14065.2	11496.3
67.5°	4794.7	4711.7	5359.4	6727.9	9303.2	13457.9	16569.5	15278.6	14567.6	13140.1	10181.3
70°	2488.0	2405.0	2929.2	3928.6	6118.4	10503.5	15622.6	14946.5	13911.2	11014.7	7976.2
72.5°	1063.8	1049.6	1262.6	1723.5	2959.8	6058.3	12249.9	12936.9	11936.5	8206.7	5483.9
75°	715.4	711.0	790.7	939.3	1331.4	2458.5	7666.0	9183.1	8733.1	5088.5	3084.3
77.5°	561.4	555.9	602.9	675.0	862.8	969.9	3402.2	4930.1	4563.1	2215.0	1349.9
80°	439.1	434.7	464.2	503.5	620.4	611.6	1119.5	1961.6	1518.1	848.6	656.4
82.5°	346.2	346.2	370.3	371.3	440.2	417.2	584.3	863.9	758.0	494.8	401.9
85°	316.7	316.7	341.9	277.4	287.2	263.2	362.6	512.2	480.6	203.1	174.7
87.5°	159.5	155.1	287.2	245.7	156.2	139.8	176.9	247.9	266.5	112.5	87.4
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°	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3
2.5°	2775.2	2774.1	2776.3	2777.4	2786.2	2798.2	2803.6	2811.3	2815.7	2813.5
5°	2742.5	2744.7	2753.4	2760.0	2775.2	2794.9	2805.8	2814.6	2822.2	2818.9
7.5°	2715.2	2720.6	2733.7	2739.2	2747.9	2753.4	2752.3	2755.6	2762.1	2754.5
10°	2699.9	2706.4	2716.3	2708.6	2687.9	2658.4	2631.1	2616.9	2621.2	2615.8
12.5°	2684.6	2693.3	2685.7	2649.6	2591.8	2553.5	2532.8	2535.0	2544.8	2547.0
15°	2675.9	2679.1	2646.4	2578.6	2519.7	2514.2	2525.1	2522.9	2524.0	2524.0
17.5°	2675.9	2667.1	2606.0	2538.2	2513.1	2503.3	2469.4	2426.8	2408.3	2401.7
20°	2690.1	2667.1	2592.8	2548.1	2493.5	2409.4	2319.8	2241.2	2206.2	2196.4
22.5°	2732.6	2693.3	2630.0	2552.4	2397.3	2256.5	2114.5	2020.5	1957.2	1946.3
25°	2818.9	2775.2	2703.2	2494.5	2244.4	2043.5	1881.8	1777.0	1713.6	1704.9
27.5°	2969.7	2941.3	2742.5	2366.8	2041.3	1826.1	1676.5	1595.7	1548.7	1545.4
30°	3196.8	3182.6	2722.8	2177.8	1791.2	1615.3	1543.3	1496.3	1461.3	1460.3
32.5°	3559.4	3444.8	2658.4	1947.4	1562.9	1465.7	1436.2	1407.8	1380.5	1380.5
35°	4025.8	3656.6	2536.1	1700.5	1424.2	1382.7	1345.6	1300.8	1264.7	1262.6
37.5°	4574.1	3787.7	2316.5	1501.8	1358.7	1327.0	1272.4	1205.8	1142.4	1131.5
40°	5127.8	3827.0	2007.4	1379.4	1317.2	1271.3	1204.7	1126.0	1064.9	1061.6
42.5°	5635.7	3751.7	1679.8	1295.3	1275.7	1214.5	1144.6	1074.7	1026.7	1025.6
45°	6061.6	3556.2	1404.5	1215.6	1232.0	1163.2	1100.9	1044.1	1007.0	999.3
47.5°	6462.5	3279.8	1211.2	1131.5	1188.3	1134.8	1082.4	1028.8	992.8	987.3
50°	6927.7	2981.7	1075.8	1049.6	1150.1	1125.0	1097.6	1041.9	981.9	975.3
52.5°	7491.3	2723.9	969.9	977.5	1120.6	1138.1	1137.0	1079.1	974.2	965.5
55°	8120.4	2437.8	890.1	918.5	1108.6	1162.1	1146.8	1114.0	980.8	967.7
57.5°	8739.7	2103.5	834.4	873.7	1091.1	1159.9	1099.8	1052.9	996.1	977.5
60°	9203.8	1654.7	791.8	834.4	1052.9	1123.9	1048.5	986.2	992.8	978.6
62.5°	9234.4	1278.9	740.5	800.6	995.0	1087.8	1014.6	956.8	1007.0	993.9
65°	8691.6	966.6	691.4	760.2	932.7	1064.9	981.9	940.4	1036.5	1022.3
67.5°	7317.6	777.6	649.8	718.7	870.5	1016.8	952.4	925.1	1062.7	1037.6
70°	5282.9	663.0	609.4	668.4	814.8	962.2	926.2	897.8	991.7	952.4
72.5°	3252.5	574.5	563.6	601.8	772.2	905.4	886.9	846.4	893.4	861.7
75°	1624.1	498.0	512.2	536.3	712.1	841.0	821.3	780.9	787.5	780.9
77.5°	777.6	426.0	452.2	470.7	634.6	767.8	747.1	705.6	697.9	699.0
80°	492.6	356.1	381.2	394.3	566.8	682.6	661.9	620.4	707.7	656.4
82.5°	308.0	289.4	296.0	320.0	493.7	594.1	566.8	529.7	637.8	504.6
85°	170.4	202.1	210.8	231.5	380.1	496.9	469.6	422.7	379.0	372.4
87.5°	101.6	120.1	123.4	138.7	255.6	359.3	317.8	301.4	250.1	249.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)