

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: P192243

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192243  
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-05-LED-E1-T3-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24041 lumens  
Efficiency: N/A  
Efficacy: 114.5 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

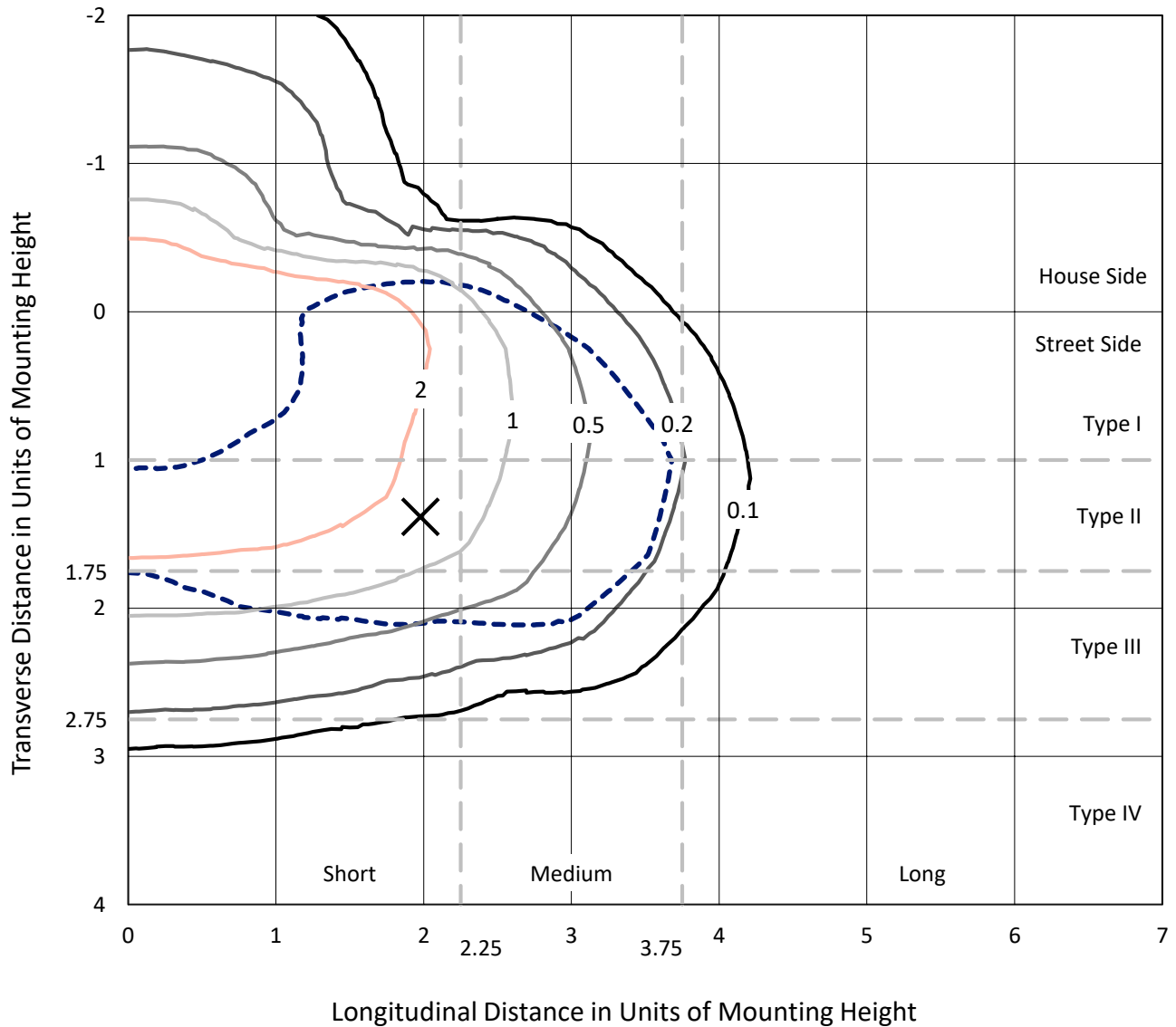
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

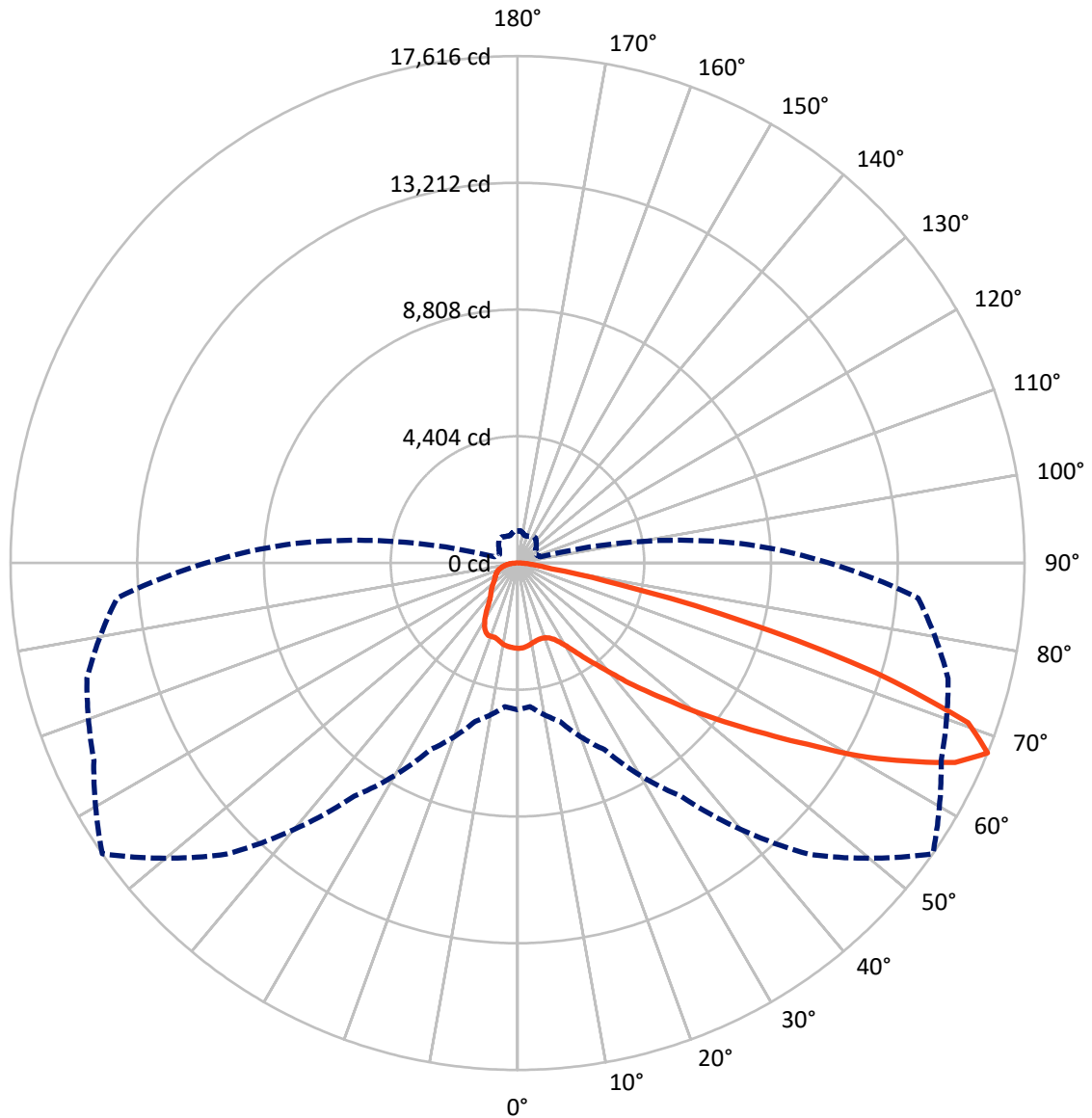
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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
<b>House Side</b>	Lumens	5193.4	0.0	5193.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	18847.6	0.0	18847.6
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	24041.0	0.0	24041.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.7	1.2
10°-20°	783.7	3.3
20°-30°	1312.7	5.5
30°-40°	2158.7	9.0
40°-50°	3633.8	15.1
50°-60°	5719.3	23.8
60°-70°	6825.4	28.4
70°-80°	2931.0	12.2
80°-90°	399.6	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°	24041.0	100.0
0°-180°	24041.0	100.0



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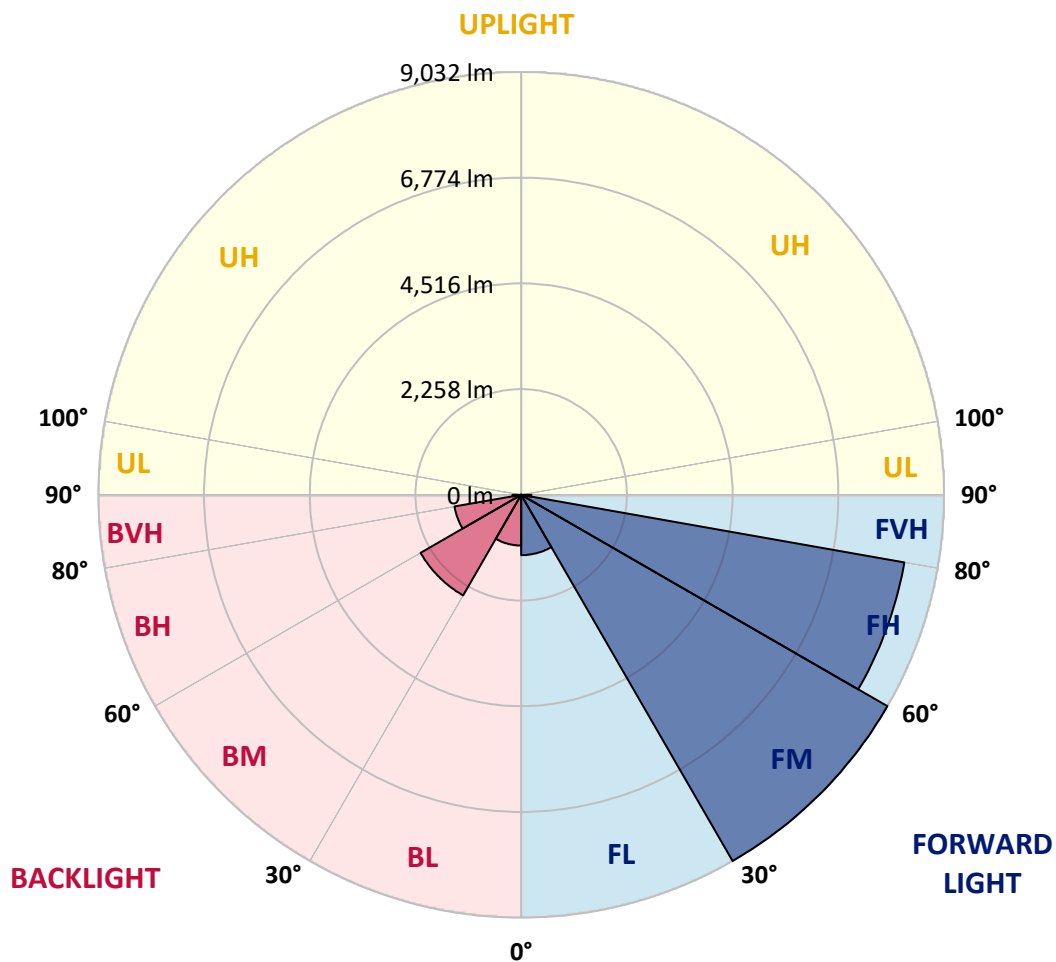
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1288.7	5.4			
FM	(30°-60°)	9031.6	37.6			
FH	(60°-80°)	8311.1	34.6			G4/12000
FVH	(80°-90°)	216.3	0.9			G2/225
BL	(0°-30°)	1084.5	4.5	B3/2500		
BM	(30°-60°)	2480.3	10.3	B2/2500		
BH	(60°-80°)	1445.3	6.0	B3/2500		G3/2500
BVH	(80°-90°)	183.3	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°	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5
2.5°	2939.0	2940.1	2942.5	2951.7	2959.9	2957.6	2958.7	2954.1	2952.9	2945.9	2952.9
5°	2901.8	2905.3	2906.5	2921.6	2930.8	2933.2	2929.7	2923.9	2916.9	2909.9	2913.4
7.5°	2817.0	2826.3	2827.5	2848.4	2863.5	2883.2	2884.4	2885.6	2882.1	2877.4	2884.4
10°	2763.6	2766.0	2764.8	2779.9	2791.5	2813.6	2826.3	2848.4	2857.7	2860.0	2864.7
12.5°	2760.1	2757.8	2754.3	2754.3	2750.9	2760.1	2783.4	2814.7	2836.8	2843.8	2849.6
15°	2797.3	2796.1	2784.5	2767.1	2745.1	2738.1	2757.8	2792.7	2821.7	2836.8	2842.6
17.5°	2880.9	2873.9	2855.4	2815.9	2768.3	2749.7	2752.0	2781.0	2814.7	2834.5	2840.3
20°	3034.2	3034.2	2994.7	2920.4	2835.6	2791.5	2770.6	2788.0	2820.5	2847.2	2855.4
22.5°	3298.9	3301.3	3235.1	3113.2	2970.3	2876.3	2824.0	2820.5	2858.8	2889.0	2898.3
25°	3674.0	3664.7	3571.8	3397.6	3180.5	3024.9	2934.3	2913.4	2945.9	2979.6	2991.2
27.5°	4110.6	4076.9	3966.6	3756.4	3475.4	3247.8	3108.5	3074.8	3106.2	3144.5	3156.1
30°	4542.6	4507.7	4376.5	4146.6	3834.2	3546.3	3346.5	3292.0	3336.1	3390.7	3397.6
32.5°	4974.5	4974.5	4828.2	4560.0	4219.8	3902.8	3663.6	3598.5	3671.7	3737.9	3753.0
35°	5491.3	5493.6	5351.9	5029.1	4663.3	4327.8	4064.2	4016.6	4126.9	4173.3	4209.3
37.5°	6126.4	6139.2	5956.9	5566.7	5166.1	4813.1	4499.6	4434.6	4544.9	4671.5	4787.6
40°	6812.7	6829.0	6628.1	6147.3	5746.7	5377.5	5038.4	4921.1	5104.6	5346.1	5495.9
42.5°	7467.6	7551.2	7357.3	6862.6	6431.8	6049.8	5706.1	5535.4	5765.3	6129.9	6260.0
45°	8414.0	8474.4	8136.5	7688.2	7283.0	6855.7	6400.5	6220.5	6542.1	7002.0	7028.7
47.5°	9044.5	8999.2	8827.4	8548.7	8292.1	7892.6	7207.5	7010.1	7437.4	7978.5	7828.7
50°	9380.1	9394.0	9370.8	9387.1	9396.3	9145.5	8196.8	7926.3	8436.0	9089.8	8744.9
52.5°	9693.6	9600.7	9677.4	10058.2	10518.1	10425.2	9273.3	8991.1	9506.7	10323.0	9713.4
55°	9686.6	9545.0	9794.6	10467.0	11464.4	11571.3	10482.1	10156.9	10638.8	11645.6	10739.8
57.5°	9344.1	9351.1	9735.4	10615.6	12124.0	12648.8	11884.8	11397.1	11839.5	12985.6	11676.9
60°	8872.7	8936.5	9490.4	10591.2	12652.3	13532.5	13605.7	12733.6	13015.8	14203.7	12452.6
62.5°	8112.1	8179.4	8943.5	10338.1	12572.2	14383.7	15161.7	14250.1	14245.5	14942.2	12680.2
65°	6912.6	6892.8	7695.2	9391.7	11899.9	15013.0	16707.2	15561.1	15172.1	14953.8	12222.7
67.5°	5097.6	5009.4	5698.0	7152.9	9891.0	14308.2	17616.4	16243.9	15488.0	13970.3	10824.6
70°	2645.2	2556.9	3114.3	4176.8	6505.0	11167.2	16609.7	15890.9	14790.1	11710.6	8480.2
72.5°	1131.0	1115.9	1342.3	1832.4	3146.8	6441.1	13023.9	13754.3	12690.6	8725.2	5830.3
75°	760.6	755.9	840.7	998.6	1415.5	2613.8	8150.4	9763.3	9284.9	5410.0	3279.2
77.5°	596.9	591.0	641.0	717.6	917.3	1031.1	3617.1	5241.6	4851.5	2354.9	1435.2
80°	466.8	462.2	493.5	535.3	659.6	650.3	1190.2	2085.5	1614.1	902.2	697.9
82.5°	368.1	368.1	393.6	394.8	468.0	443.6	621.2	918.5	805.9	526.0	427.3
85°	336.7	336.7	363.5	294.9	305.4	279.8	385.5	544.6	510.9	216.0	185.8
87.5°	169.5	164.9	305.4	261.3	166.1	148.6	188.1	263.6	283.3	119.6	92.9
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°	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5
2.5°	2950.6	2949.4	2951.7	2952.9	2962.2	2975.0	2980.8	2988.9	2993.5	2991.2
5°	2915.7	2918.1	2927.4	2934.3	2950.6	2971.5	2983.1	2992.4	3000.5	2997.0
7.5°	2886.7	2892.5	2906.5	2912.3	2921.6	2927.4	2926.2	2929.7	2936.6	2928.5
10°	2870.5	2877.4	2887.9	2879.8	2857.7	2826.3	2797.3	2782.2	2786.9	2781.0
12.5°	2854.2	2863.5	2855.4	2817.0	2755.5	2714.9	2692.8	2695.1	2705.6	2707.9
15°	2844.9	2848.4	2813.6	2741.6	2678.9	2673.1	2684.7	2682.3	2683.5	2683.5
17.5°	2844.9	2835.6	2770.6	2698.6	2671.9	2661.4	2625.5	2580.2	2560.4	2553.5
20°	2860.0	2835.6	2756.7	2709.1	2651.0	2561.6	2466.4	2382.8	2345.6	2335.2
22.5°	2905.3	2863.5	2796.1	2713.7	2548.8	2399.0	2248.1	2148.2	2080.9	2069.2
25°	2997.0	2950.6	2873.9	2652.2	2386.2	2172.6	2000.7	1889.3	1821.9	1812.6
27.5°	3157.3	3127.1	2915.7	2516.3	2170.3	1941.5	1782.4	1696.5	1646.6	1643.1
30°	3398.8	3383.7	2894.8	2315.4	1904.4	1717.4	1640.8	1590.8	1553.7	1552.5
32.5°	3784.3	3662.4	2826.3	2070.4	1661.7	1558.3	1527.0	1496.8	1467.7	1467.7
35°	4280.1	3887.7	2696.3	1808.0	1514.2	1470.1	1430.6	1383.0	1344.7	1342.3
37.5°	4863.1	4027.0	2462.9	1596.6	1444.5	1410.8	1352.8	1282.0	1214.6	1203.0
40°	5451.8	4068.8	2134.3	1466.6	1400.4	1351.6	1280.8	1197.2	1132.2	1128.7
42.5°	5991.7	3988.7	1785.9	1377.2	1356.3	1291.2	1216.9	1142.6	1091.5	1090.4
45°	6444.6	3780.8	1493.3	1292.4	1309.8	1236.7	1170.5	1110.1	1070.6	1062.5
47.5°	6870.8	3487.1	1287.8	1203.0	1263.4	1206.5	1150.7	1093.8	1055.5	1049.7
50°	7365.4	3170.0	1143.8	1115.9	1222.7	1196.0	1167.0	1107.8	1043.9	1036.9
52.5°	7964.6	2896.0	1031.1	1039.3	1191.4	1210.0	1208.8	1147.3	1035.8	1026.5
55°	8633.4	2591.8	946.4	976.6	1178.6	1235.5	1219.2	1184.4	1042.7	1028.8
57.5°	9291.8	2236.5	887.1	929.0	1160.0	1233.2	1169.3	1119.4	1059.0	1039.3
60°	9785.3	1759.2	841.9	887.1	1119.4	1194.9	1114.7	1048.6	1055.5	1040.4
62.5°	9817.9	1359.8	787.3	851.2	1057.8	1156.5	1078.7	1017.2	1070.6	1056.7
65°	9240.7	1027.7	735.0	808.2	991.7	1132.2	1043.9	999.8	1102.0	1086.9
67.5°	7780.0	826.8	690.9	764.1	925.5	1081.1	1012.6	983.5	1129.8	1103.1
70°	5616.7	704.8	647.9	710.6	866.2	1023.0	984.7	954.5	1054.4	1012.6
72.5°	3458.0	610.8	599.2	639.8	821.0	962.6	942.9	899.9	949.9	916.2
75°	1726.7	529.5	544.6	570.1	757.1	894.1	873.2	830.3	837.2	830.3
77.5°	826.8	452.9	480.7	500.5	674.7	816.3	794.3	750.1	742.0	743.2
80°	523.7	378.5	405.3	419.2	602.7	725.7	703.7	659.6	752.5	697.9
82.5°	327.5	307.7	314.7	340.2	524.9	631.7	602.7	563.2	678.1	536.5
85°	181.1	214.8	224.1	246.2	404.1	528.3	499.3	449.4	402.9	396.0
87.5°	108.0	127.7	131.2	147.5	271.7	382.0	337.9	320.5	265.9	264.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)