

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: P192372

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23844 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

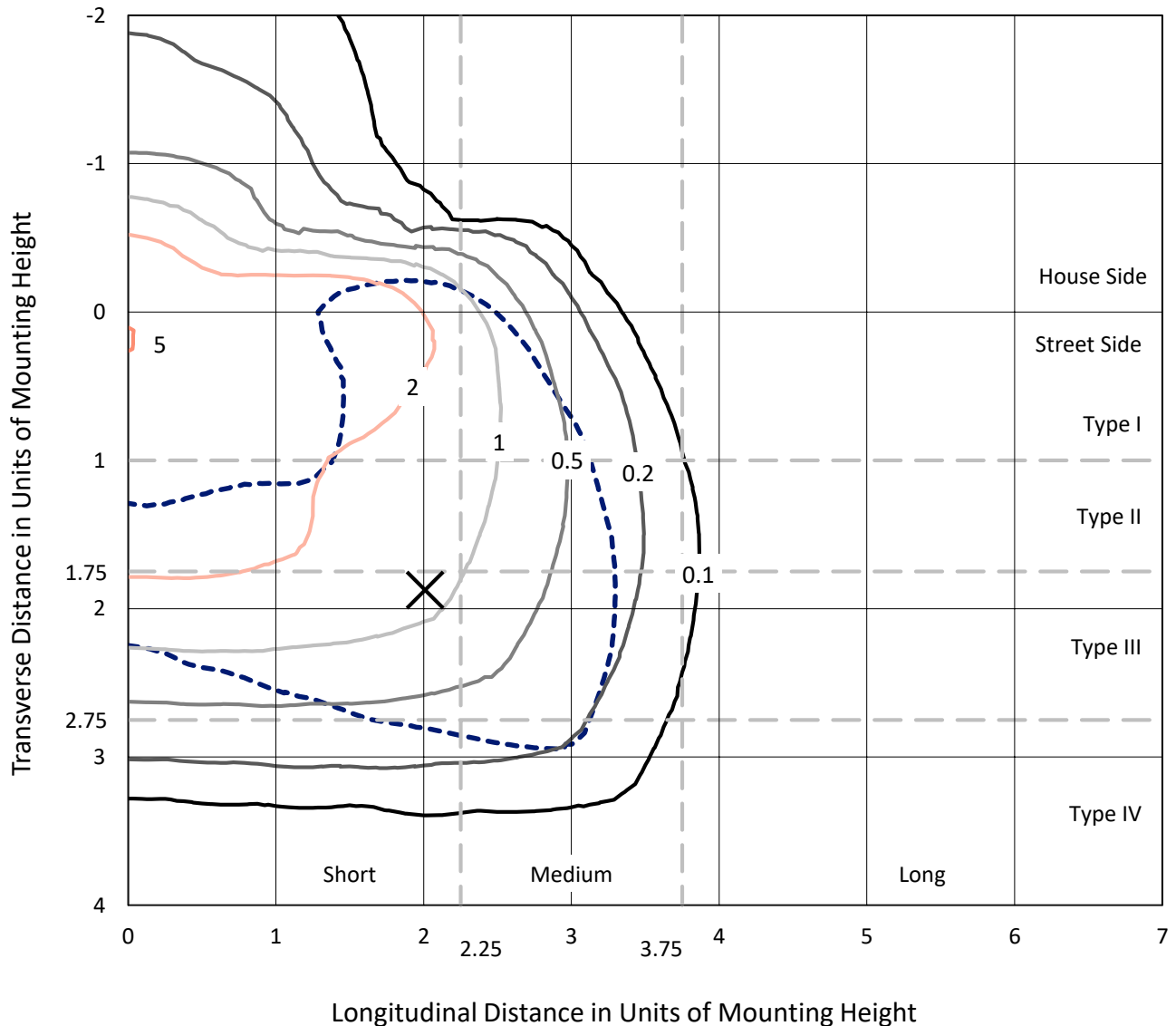
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

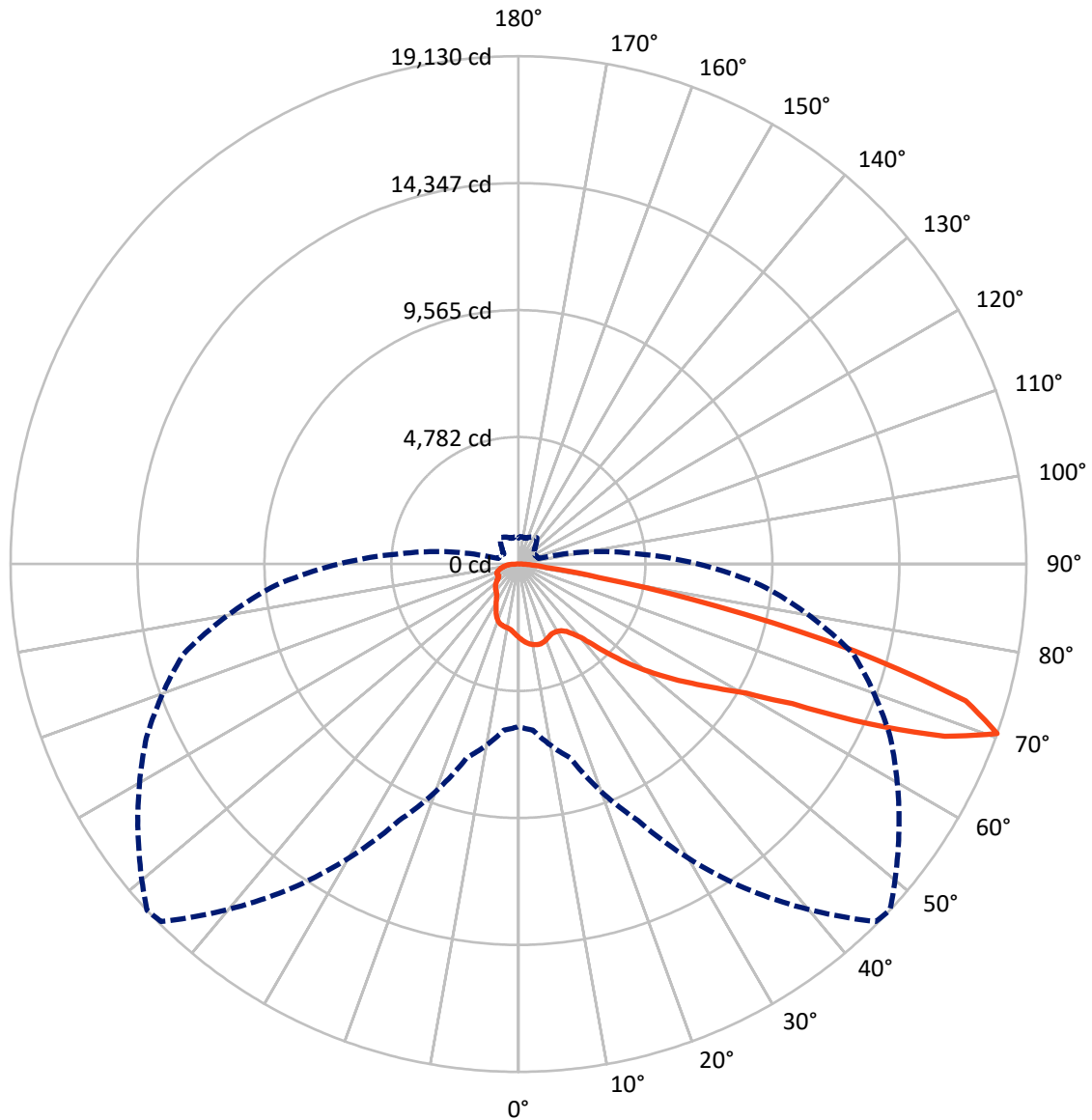
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4974.3	0.0	4974.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	18869.7	0.0	18869.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	23844.0	0.0	23844.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.1	1.1
10°-20°	777.7	3.3
20°-30°	1148.5	4.8
30°-40°	1669.3	7.0
40°-50°	3004.1	12.6
50°-60°	5204.3	21.8
60°-70°	7428.0	31.2
70°-80°	3813.1	16.0
80°-90°	533.8	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°	23844.0	100.0
0°-180°	23844.0	100.0



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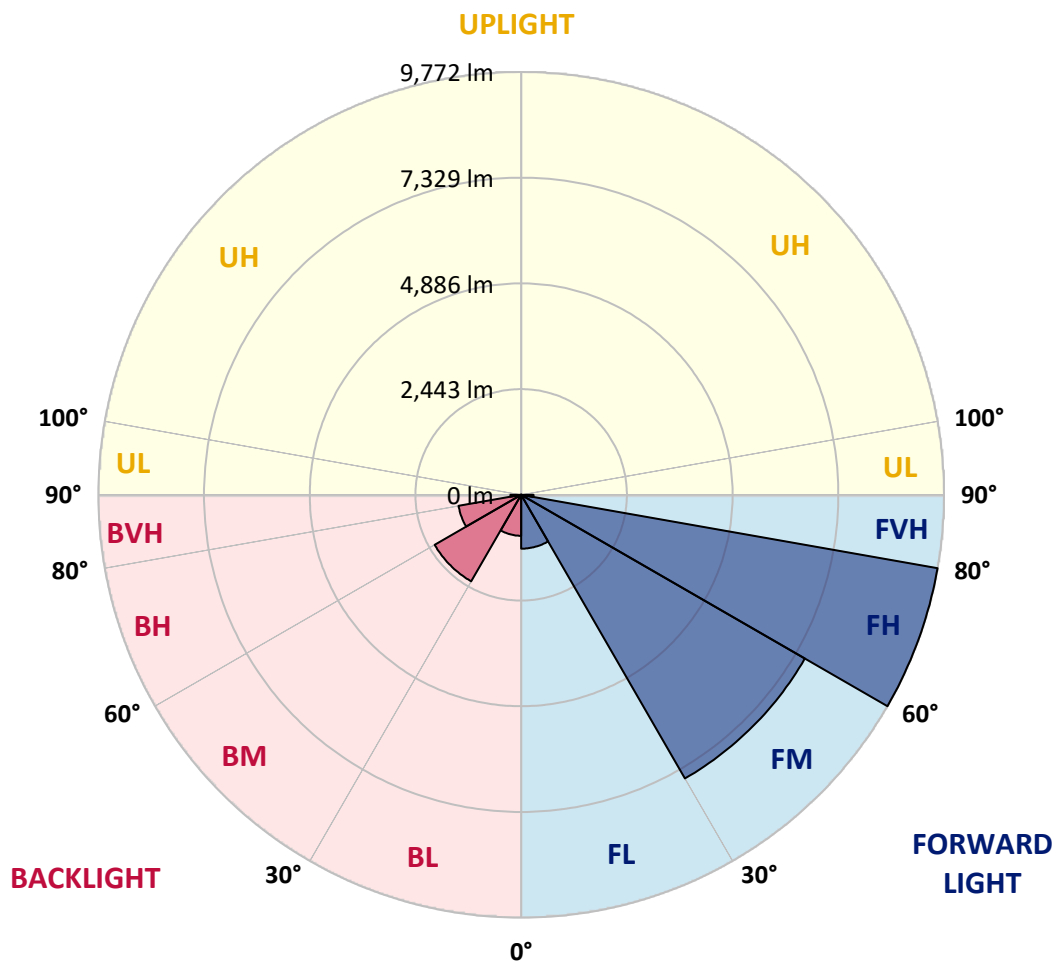
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1244.1	5.2			
FM	(30°-60°)	7568.8	31.7			
FH	(60°-80°)	9771.9	41.0			G4/12000
FVH	(80°-90°)	284.9	1.2			G3/500
BL	(0°-30°)	947.1	4.0	B2/1000		
BM	(30°-60°)	2308.9	9.7	B2/2500		
BH	(60°-80°)	1469.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	249.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2766.6	2766.6	2766.6	2766.6	2766.6	2766.6	2766.6	2766.6	2766.6	2766.6	2766.6
2.5°	2929.0	2923.2	2920.9	2916.3	2910.5	2881.5	2875.7	2854.8	2825.8	2795.6	2764.3
5°	3121.6	3120.5	3107.7	3084.5	3047.4	2983.6	2968.5	2917.4	2849.0	2782.9	2716.8
7.5°	3291.0	3280.5	3256.2	3209.8	3144.8	3057.8	3036.9	2966.2	2872.2	2781.7	2692.4
10°	3415.1	3409.3	3355.9	3292.1	3207.5	3111.2	3086.8	3007.9	2904.7	2789.8	2678.5
12.5°	3485.9	3474.3	3412.8	3336.2	3235.3	3141.3	3117.0	3036.9	2920.9	2789.8	2658.8
15°	3481.2	3473.1	3411.6	3328.1	3226.0	3143.7	3121.6	3041.6	2917.4	2778.2	2633.2
17.5°	3388.4	3391.9	3339.7	3257.3	3173.8	3111.2	3091.5	3017.2	2894.2	2755.0	2603.1
20°	3226.0	3242.3	3207.5	3134.4	3088.0	3045.1	3032.3	2969.6	2858.3	2721.4	2570.6
22.5°	3063.6	3078.7	3064.8	3003.3	2996.3	2970.8	2963.8	2918.6	2827.0	2700.5	2550.9
25°	2944.1	2958.0	2955.7	2902.4	2923.2	2922.1	2916.3	2894.2	2820.0	2700.5	2554.4
27.5°	2911.6	2916.3	2911.6	2862.9	2891.9	2915.1	2910.5	2907.0	2840.9	2734.2	2598.4
30°	3023.0	3016.1	2980.1	2881.5	2908.2	2940.6	2936.0	2938.3	2903.5	2822.3	2697.0
32.5°	3467.3	3436.0	3322.3	3045.1	2974.3	2991.7	2994.0	3032.3	3038.1	2958.0	2850.2
35°	4132.0	4097.2	3949.9	3483.5	3179.6	3119.3	3119.3	3177.3	3212.1	3152.9	3088.0
37.5°	4836.1	4797.8	4719.0	4091.4	3611.1	3340.9	3335.1	3375.7	3425.5	3439.5	3455.7
40°	5636.5	5595.9	5618.0	4773.5	4213.2	3724.8	3642.5	3613.5	3748.0	3837.3	3967.3
42.5°	6512.3	6493.8	6501.9	5533.3	4898.8	4299.0	4181.9	4032.2	4194.6	4353.6	4626.2
45°	7323.2	7339.4	7331.3	6346.5	5662.1	4999.7	4875.6	4585.6	4744.5	5017.1	5461.4
47.5°	8033.1	7965.9	8070.3	7235.0	6517.0	5783.9	5630.7	5242.1	5403.4	5739.8	6491.5
50°	8895.0	8885.7	8732.6	8420.6	7550.6	6571.5	6370.8	5920.7	6171.3	6638.8	7789.5
52.5°	9801.0	9632.8	9492.4	9342.8	8646.8	7378.9	7133.0	6597.0	7073.8	7661.9	9371.8
55°	9986.6	9911.2	10085.2	10336.9	9703.6	8217.6	7931.1	7445.0	8090.0	8831.2	11196.5
57.5°	10383.3	10382.2	10741.8	11190.7	10791.7	9107.3	8818.5	8469.3	9232.6	10171.1	13133.7
60°	10651.3	10726.7	11394.9	12266.0	11860.0	10135.1	9869.4	9651.4	10531.8	11668.6	14938.7
62.5°	10791.7	10893.7	11805.5	12702.2	13370.4	11846.1	11580.5	11266.1	12251.0	13311.2	15994.3
65°	10208.2	10408.9	11741.7	13079.2	14692.8	14619.7	14500.2	13948.1	14400.5	14609.3	15612.7
67.5°	8593.4	8798.7	10350.9	12727.7	15637.1	17294.7	17320.2	16377.2	15722.9	14720.6	13126.8
70°	6122.6	6283.8	7568.0	10671.0	14917.8	19042.9	19129.9	17496.6	15459.6	13054.9	9171.1
72.5°	2907.0	3005.6	4221.3	6945.0	11838.0	17447.9	17616.1	16067.4	13145.3	9665.3	5003.2
75°	1068.4	1098.5	1426.8	2954.6	6866.2	12866.9	13065.3	11517.8	8714.1	4811.8	1905.9
77.5°	640.3	660.1	800.4	1247.0	2700.5	7354.5	7648.0	6264.1	3808.3	1791.1	937.3
80°	447.8	461.7	574.2	776.1	1276.0	2802.6	3063.6	2556.7	1517.3	1133.3	682.1
82.5°	302.8	309.7	403.7	524.3	848.0	1001.1	1080.0	1136.8	1023.1	843.3	432.7
85°	198.4	205.3	273.8	345.7	539.4	517.4	529.0	669.3	747.1	573.0	240.1
87.5°	113.7	118.3	164.7	184.4	264.5	219.2	221.6	352.6	477.9	386.3	146.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2766.6	2766.6	2766.6	2766.6	2766.6	2766.6	2766.6	2766.6	2766.6	2766.6	2766.6
2.5°	2756.2	2741.1	2707.5	2686.6	2666.9	2662.2	2654.1	2653.0	2651.8	2651.8	2648.3
5°	2694.7	2669.2	2617.0	2588.0	2563.6	2561.3	2560.2	2566.0	2568.3	2570.6	2567.1
7.5°	2655.3	2620.5	2555.5	2513.8	2484.8	2477.8	2489.4	2516.1	2533.5	2540.4	2537.0
10°	2630.9	2588.0	2512.6	2467.4	2443.0	2439.5	2454.6	2485.9	2521.9	2535.8	2534.6
12.5°	2603.1	2554.4	2474.3	2426.8	2412.8	2419.8	2439.5	2468.5	2505.6	2527.7	2528.8
15°	2575.2	2518.4	2436.0	2394.3	2388.5	2397.8	2416.3	2438.4	2467.4	2489.4	2491.7
17.5°	2541.6	2482.4	2400.1	2357.2	2352.5	2357.2	2358.3	2369.9	2388.5	2409.4	2415.2
20°	2505.6	2445.3	2359.5	2316.6	2295.7	2277.1	2256.2	2258.6	2264.4	2285.2	2289.9
22.5°	2480.1	2419.8	2328.2	2269.0	2213.3	2157.6	2115.9	2110.1	2112.4	2129.8	2135.6
25°	2482.4	2418.6	2320.0	2218.0	2096.2	2006.8	1951.2	1941.9	1940.7	1953.5	1961.6
27.5°	2527.7	2463.9	2350.2	2165.8	1968.6	1836.3	1777.1	1770.2	1760.9	1764.4	1773.7
30°	2628.6	2569.4	2423.3	2112.4	1830.5	1669.3	1607.8	1600.8	1588.1	1582.3	1589.2
32.5°	2793.3	2744.6	2530.0	2061.4	1692.5	1526.6	1463.9	1448.9	1440.7	1433.8	1439.6
35°	3067.1	3046.2	2672.7	2005.7	1570.7	1416.4	1359.5	1336.3	1324.7	1337.5	1346.8
37.5°	3496.3	3507.9	2859.4	1918.7	1476.7	1343.3	1295.7	1269.1	1251.7	1262.1	1272.5
40°	4104.1	4112.3	3065.9	1795.7	1395.5	1300.4	1249.3	1225.0	1200.6	1182.1	1180.9
42.5°	4902.2	4819.9	3268.9	1662.3	1301.5	1273.7	1216.9	1186.7	1149.6	1098.5	1088.1
45°	5848.8	5560.0	3423.2	1509.2	1196.0	1241.2	1180.9	1139.1	1081.1	1025.5	1019.7
47.5°	6939.2	6354.6	3498.6	1350.3	1097.4	1193.7	1136.8	1070.7	997.6	969.8	966.3
50°	8270.9	7297.7	3534.6	1196.0	1011.5	1131.0	1073.0	995.3	933.8	928.0	924.5
52.5°	9787.1	8432.2	3546.2	1069.5	940.8	1049.8	1020.8	945.4	896.7	901.3	901.3
55°	11374.0	9603.8	3388.4	977.9	875.8	966.3	986.0	925.7	885.1	903.7	910.6
57.5°	12831.0	10642.0	2891.9	907.1	814.3	902.5	973.3	944.3	916.4	991.8	996.5
60°	13949.2	11255.7	2160.0	843.3	769.1	880.5	1006.9	1015.0	1022.0	1201.8	1226.1
62.5°	14183.6	11051.5	1484.8	793.5	748.2	899.0	1068.4	1069.5	1061.4	1186.7	1201.8
65°	13108.2	9760.4	1080.0	765.6	730.8	932.7	1120.6	1096.2	1042.9	1138.0	1110.1
67.5°	10410.0	7353.4	899.0	744.7	705.3	930.3	1176.3	1120.6	1032.4	1114.8	1069.5
70°	6757.1	4446.4	800.4	727.3	675.1	886.3	1208.7	1118.3	1002.3	1037.1	983.7
72.5°	3296.8	1988.3	734.3	701.8	643.8	824.8	1207.6	1097.4	970.9	968.6	939.6
75°	1289.9	910.6	674.0	663.5	590.4	755.2	1175.1	1067.2	933.8	896.7	886.3
77.5°	755.2	649.6	597.4	606.7	526.6	685.6	1127.5	1015.0	882.8	838.7	827.1
80°	549.8	486.0	509.2	524.3	450.1	616.0	1063.7	951.2	825.9	848.0	831.7
82.5°	352.6	313.2	413.0	428.0	374.7	545.2	994.1	883.9	745.9	677.5	661.2
85°	179.8	198.4	307.4	326.0	288.8	447.8	909.5	794.6	655.4	563.8	573.0
87.5°	100.9	135.7	196.0	219.2	204.2	344.5	737.8	655.4	534.8	435.0	382.8
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)