

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: P191572

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191572
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 24391.2 lumens
Efficiency: N/A
Efficacy: 108.4 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

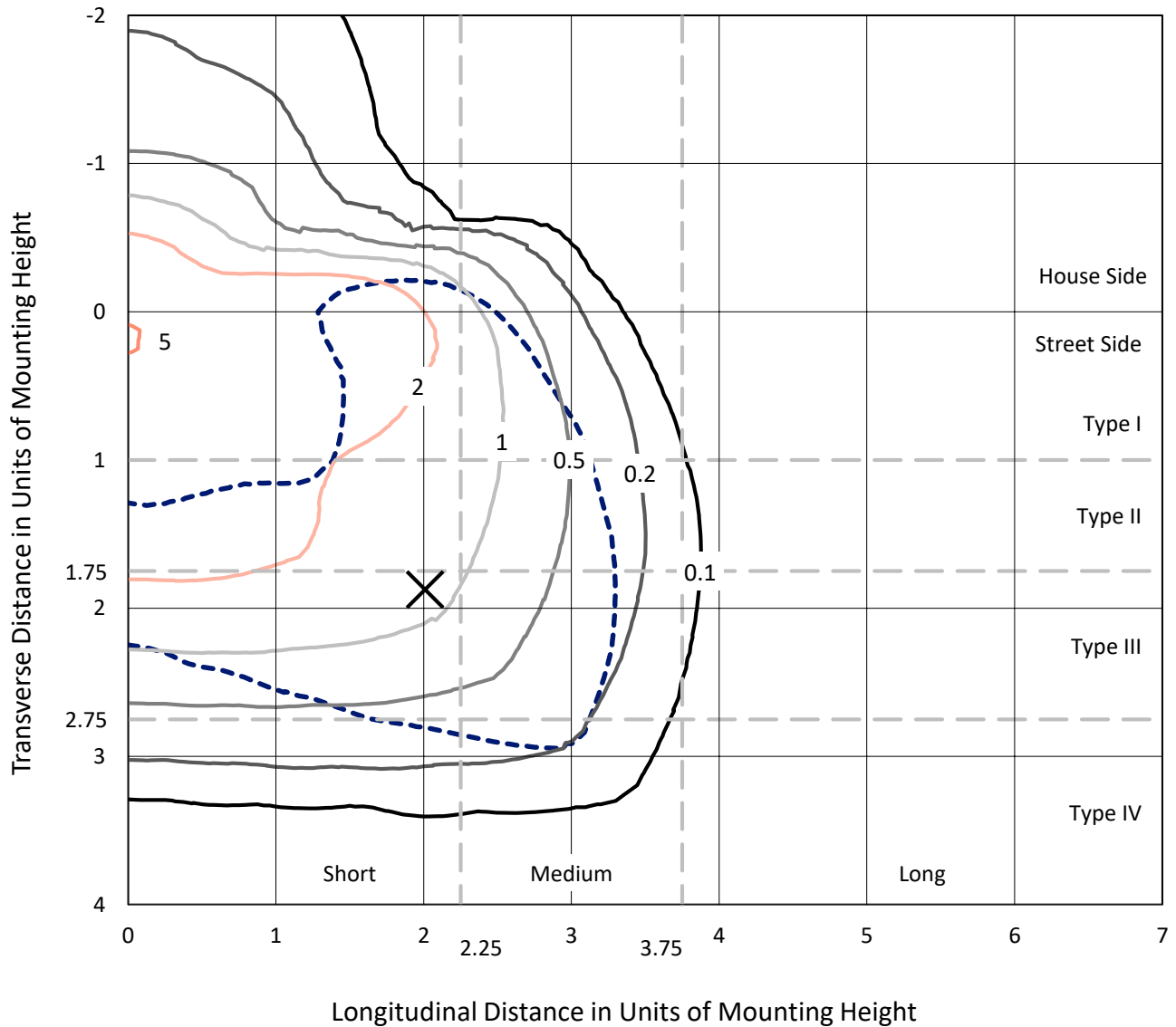


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Iso-Footcandle Lines of Horizontal Illumination

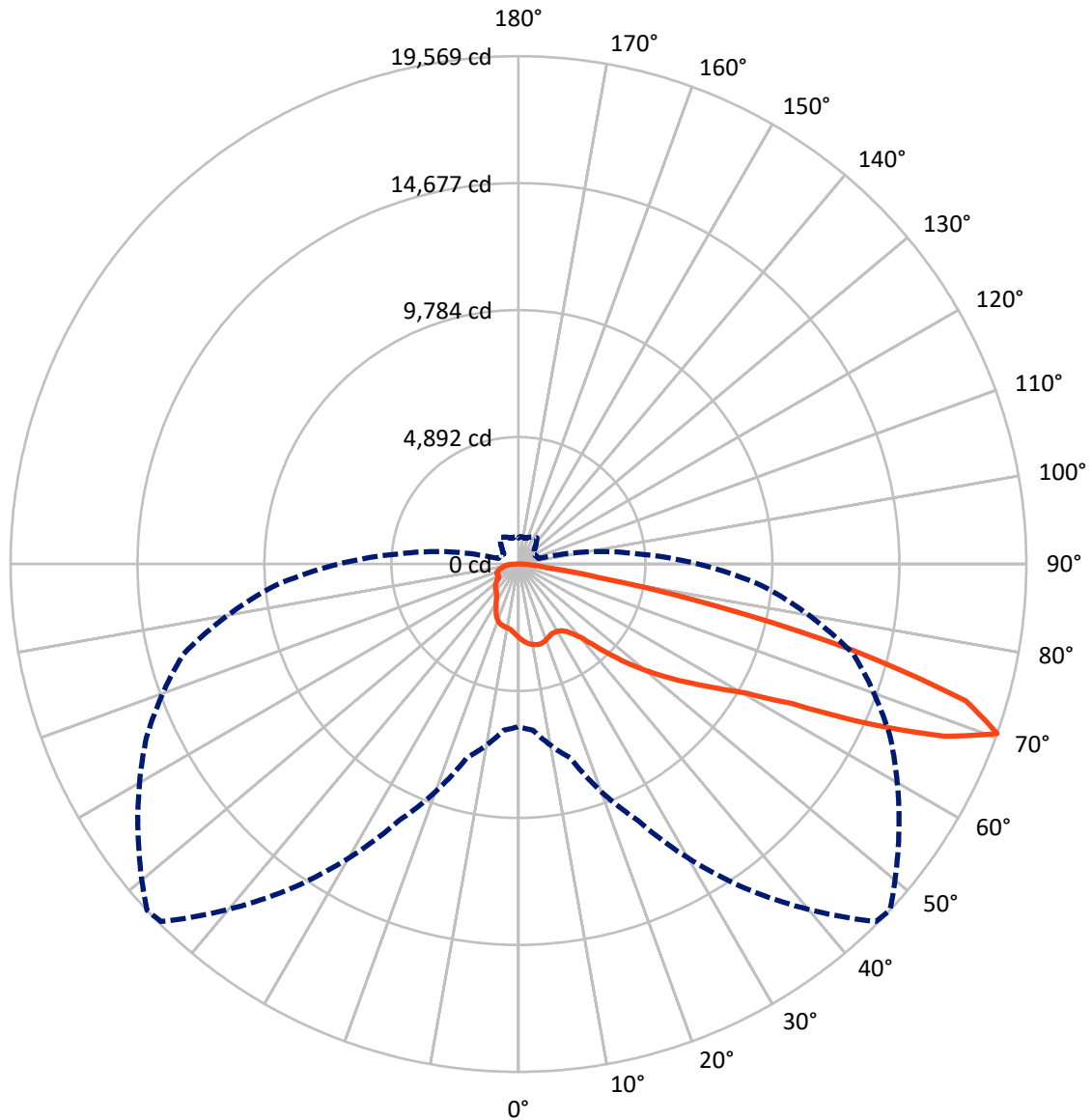
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	5088.5	0.0	5088.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	19302.7	0.0	19302.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	24391.2	0.0	24391.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.2	1.1
10°-20°	795.6	3.3
20°-30°	1174.8	4.8
30°-40°	1707.6	7.0
40°-50°	3073.1	12.6
50°-60°	5323.7	21.8
60°-70°	7598.5	31.2
70°-80°	3900.7	16.0
80°-90°	546.1	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°	24391.2	100.0
0°-180°	24391.2	100.0



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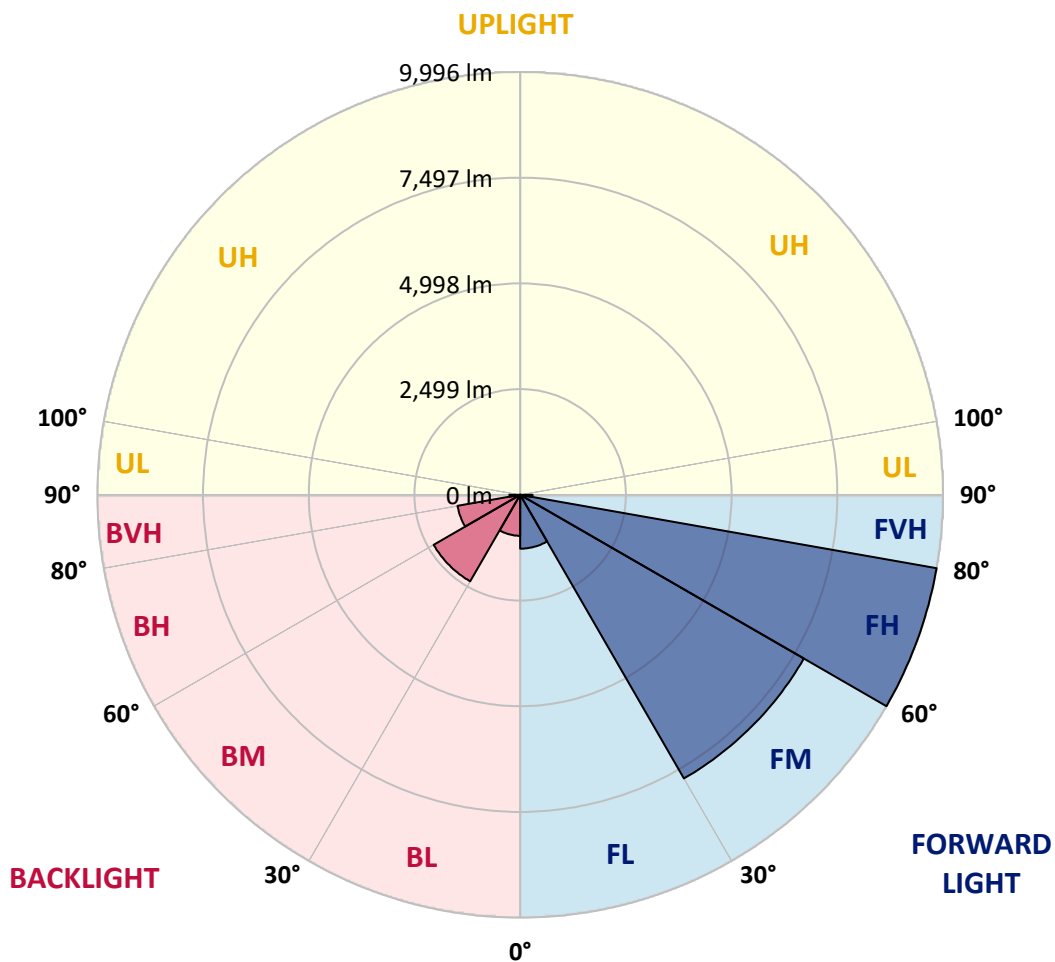
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1272.7	5.2			
FM	(30°-60°)	7742.5	31.7			
FH	(60°-80°)	9996.2	41.0			G4/12000
FVH	(80°-90°)	291.4	1.2			G3/500
BL	(0°-30°)	968.9	4.0	B2/1000		
BM	(30°-60°)	2361.9	9.7	B2/2500		
BH	(60°-80°)	1503.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	254.7	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°	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1
2.5°	2996.2	2990.3	2987.9	2983.2	2977.3	2947.6	2941.7	2920.3	2890.7	2859.8	2827.7
5°	3193.2	3192.1	3179.0	3155.3	3117.3	3052.1	3036.6	2984.4	2914.4	2846.8	2779.2
7.5°	3366.5	3355.8	3330.9	3283.5	3217.0	3128.0	3106.6	3034.3	2938.1	2845.5	2754.2
10°	3493.5	3487.5	3432.9	3367.7	3281.1	3182.6	3157.6	3076.9	2971.4	2853.8	2740.0
12.5°	3565.9	3554.0	3491.1	3412.8	3309.6	3213.4	3188.5	3106.6	2987.9	2853.8	2719.8
15°	3561.1	3552.8	3489.9	3404.5	3300.0	3215.9	3193.2	3111.4	2984.4	2842.0	2693.6
17.5°	3466.2	3469.7	3416.3	3332.1	3246.6	3182.6	3162.5	3086.4	2960.6	2818.2	2662.8
20°	3300.0	3316.7	3281.1	3206.3	3158.9	3115.0	3101.9	3037.8	2923.9	2783.9	2629.6
22.5°	3133.9	3149.4	3135.1	3072.2	3065.1	3039.0	3031.8	2985.6	2891.9	2762.5	2609.4
25°	3011.7	3025.9	3023.5	2969.0	2990.3	2989.2	2983.2	2960.6	2884.7	2762.5	2613.0
27.5°	2978.4	2983.2	2978.4	2928.6	2958.3	2982.0	2977.3	2973.7	2906.1	2797.0	2658.0
30°	3092.4	3085.3	3048.5	2947.6	2974.9	3008.1	3003.4	3005.7	2970.1	2887.1	2758.9
32.5°	3546.9	3514.9	3398.5	3115.0	3042.6	3060.4	3062.7	3101.9	3107.8	3025.9	2915.6
35°	4226.8	4191.2	4040.6	3563.4	3252.6	3190.9	3190.9	3250.2	3285.8	3225.3	3158.9
37.5°	4947.1	4907.9	4827.3	4185.3	3694.0	3417.6	3411.6	3453.2	3504.1	3518.4	3535.0
40°	5765.9	5724.3	5746.9	4883.1	4309.9	3810.3	3726.1	3696.4	3834.0	3925.4	4058.4
42.5°	6661.8	6642.8	6651.1	5660.3	5011.2	4397.7	4277.9	4124.7	4290.9	4453.5	4732.4
45°	7491.3	7507.8	7499.6	6492.2	5792.0	5114.4	4987.5	4690.8	4853.4	5132.2	5586.7
47.5°	8217.5	8148.7	8255.5	7401.0	6666.6	5916.6	5759.9	5362.4	5527.4	5871.5	6640.5
50°	9099.1	9089.6	8933.0	8613.9	7723.9	6722.3	6517.0	6056.6	6312.9	6791.2	7968.3
52.5°	10025.9	9853.9	9710.3	9557.2	8845.3	7548.3	7296.7	6748.4	7236.1	7837.7	9586.9
55°	10215.8	10138.7	10316.7	10574.1	9926.3	8406.2	8113.1	7615.9	8275.7	9033.9	11453.5
57.5°	10621.6	10620.5	10988.3	11447.5	11039.4	9316.3	9020.9	8663.7	9444.5	10404.5	13435.1
60°	10895.8	10972.9	11656.4	12547.5	12132.2	10367.7	10095.9	9872.9	10773.5	11936.4	15281.6
62.5°	11039.4	11143.7	12076.4	12993.7	13677.3	12118.0	11846.3	11524.7	12532.2	13616.7	16361.4
65°	10442.5	10647.8	12011.2	13379.4	15030.0	14955.2	14833.0	14268.2	14731.0	14944.6	15971.0
67.5°	8790.6	9000.6	10588.5	13019.8	15996.0	17691.6	17717.7	16753.1	16083.8	15058.4	13428.1
70°	6263.1	6428.0	7741.7	10915.9	15260.2	19480.0	19568.9	17898.2	15814.4	13354.5	9381.6
72.5°	2973.7	3074.6	4318.2	7104.4	12109.7	17848.3	18020.4	16436.2	13447.0	9887.1	5118.0
75°	1092.9	1123.7	1459.5	3022.4	7023.8	13162.2	13365.2	11782.1	8914.1	4922.2	1949.6
77.5°	655.0	675.2	818.8	1275.6	2762.5	7523.3	7823.5	6407.9	3895.7	1832.2	958.8
80°	458.1	472.3	587.4	793.9	1305.3	2866.9	3133.9	2615.4	1552.1	1159.3	697.8
82.5°	309.7	316.8	413.0	536.3	867.5	1024.1	1104.8	1162.9	1046.6	862.7	442.6
85°	203.0	210.0	280.1	353.6	551.8	529.3	541.1	684.7	764.2	586.2	245.6
87.5°	116.3	121.0	168.5	188.6	270.6	224.2	226.7	360.7	488.9	395.2	149.6
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°	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1	2830.1
2.5°	2819.5	2804.0	2769.6	2748.3	2728.1	2723.3	2715.0	2713.9	2712.7	2712.7	2709.1
5°	2756.5	2730.5	2677.1	2647.4	2622.4	2620.1	2619.0	2624.9	2627.2	2629.6	2626.0
7.5°	2716.2	2680.6	2614.2	2571.5	2541.8	2534.7	2546.5	2573.8	2591.6	2598.7	2595.2
10°	2691.3	2647.4	2570.3	2524.0	2499.1	2495.5	2510.9	2543.0	2579.8	2594.0	2592.8
12.5°	2662.8	2613.0	2531.1	2482.5	2468.2	2475.3	2495.5	2525.2	2563.1	2585.7	2586.8
15°	2634.3	2576.2	2491.9	2449.3	2443.3	2452.8	2471.8	2494.4	2524.0	2546.5	2548.9
17.5°	2599.9	2539.4	2455.2	2411.3	2406.5	2411.3	2412.4	2424.3	2443.3	2464.7	2470.6
20°	2563.1	2501.4	2413.7	2369.8	2348.4	2329.4	2308.0	2310.4	2316.4	2337.6	2342.5
22.5°	2537.0	2475.3	2381.6	2321.1	2264.1	2207.1	2164.5	2158.5	2160.9	2178.7	2184.6
25°	2539.4	2474.1	2373.2	2268.9	2144.3	2052.9	1996.0	1986.5	1985.2	1998.3	2006.6
27.5°	2585.7	2520.4	2404.1	2215.5	2013.8	1878.4	1817.9	1810.8	1801.3	1804.9	1814.4
30°	2688.9	2628.4	2478.9	2160.9	1872.5	1707.6	1644.7	1637.5	1624.5	1618.6	1625.7
32.5°	2857.4	2807.6	2588.1	2108.7	1731.3	1561.6	1497.5	1482.2	1473.8	1466.7	1472.6
35°	3137.5	3116.1	2734.0	2051.7	1606.7	1448.9	1390.7	1367.0	1355.1	1368.2	1377.7
37.5°	3576.5	3588.4	2925.0	1962.7	1510.6	1374.1	1325.4	1298.2	1280.4	1291.1	1301.7
40°	4198.3	4206.7	3136.3	1836.9	1427.5	1330.2	1278.0	1253.1	1228.2	1209.2	1208.0
42.5°	5014.7	4930.5	3343.9	1700.5	1331.4	1302.9	1244.8	1213.9	1176.0	1123.7	1113.1
45°	5983.0	5687.6	3501.8	1543.8	1223.4	1269.7	1208.0	1165.2	1105.9	1049.0	1043.1
47.5°	7098.5	6500.4	3578.9	1381.3	1122.6	1221.1	1162.9	1095.3	1020.5	992.1	988.5
50°	8460.7	7465.2	3615.7	1223.4	1034.7	1157.0	1097.6	1018.1	955.2	949.3	945.7
52.5°	10011.7	8625.7	3627.6	1094.0	962.4	1073.9	1044.2	967.1	917.3	922.0	922.0
55°	11635.0	9824.2	3466.2	1000.3	895.9	988.5	1008.6	946.9	905.4	924.4	931.5
57.5°	13125.5	10886.2	2958.3	927.9	833.0	923.2	995.6	966.0	937.4	1014.6	1019.4
60°	14269.3	11514.0	2209.6	862.7	786.8	900.7	1030.0	1038.3	1045.5	1229.4	1254.2
62.5°	14509.1	11305.1	1518.9	811.7	765.4	919.6	1092.9	1094.0	1085.8	1213.9	1229.4
65°	13409.0	9984.4	1104.8	783.2	747.6	954.1	1146.3	1121.4	1066.8	1164.1	1135.6
67.5°	10648.9	7522.2	919.6	761.8	721.5	951.7	1203.3	1146.3	1056.1	1140.4	1094.0
70°	6912.2	4548.4	818.8	744.0	690.6	906.6	1236.4	1144.0	1025.3	1060.9	1006.3
72.5°	3372.5	2033.9	751.2	717.9	658.6	843.7	1235.3	1122.6	993.2	990.8	961.2
75°	1319.5	931.5	689.5	678.7	604.0	772.5	1202.1	1091.7	955.2	917.3	906.6
77.5°	772.5	664.5	611.1	620.6	538.7	701.3	1153.4	1038.3	903.1	857.9	846.1
80°	562.4	497.2	520.9	536.3	460.4	630.1	1088.1	973.0	844.9	867.5	850.8
82.5°	360.7	320.4	422.5	437.8	383.3	557.7	1016.9	904.2	763.0	693.0	676.4
85°	183.9	203.0	314.5	333.5	295.4	458.1	930.4	812.8	670.4	576.7	586.2
87.5°	103.2	138.8	200.5	224.2	208.9	352.4	754.7	670.4	547.1	445.0	391.6
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)