

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: STREETWORKS

Report Number: P191582

Luminaire Tested: **GAN-AF-04-LED-U-T4W-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191582
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: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-T4W-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26756.3 lumens
Efficiency: N/A
Efficacy: 103.7 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

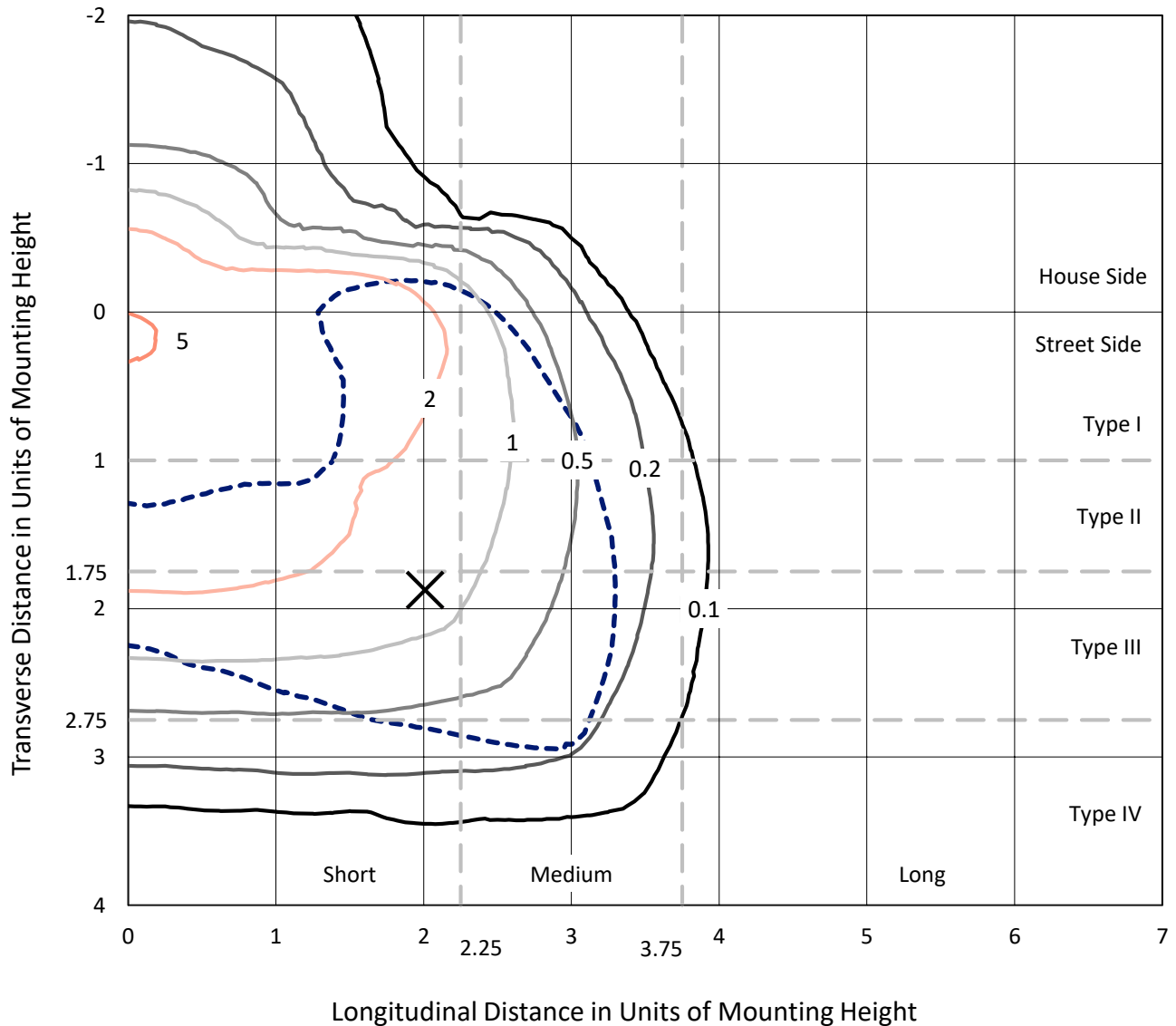
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

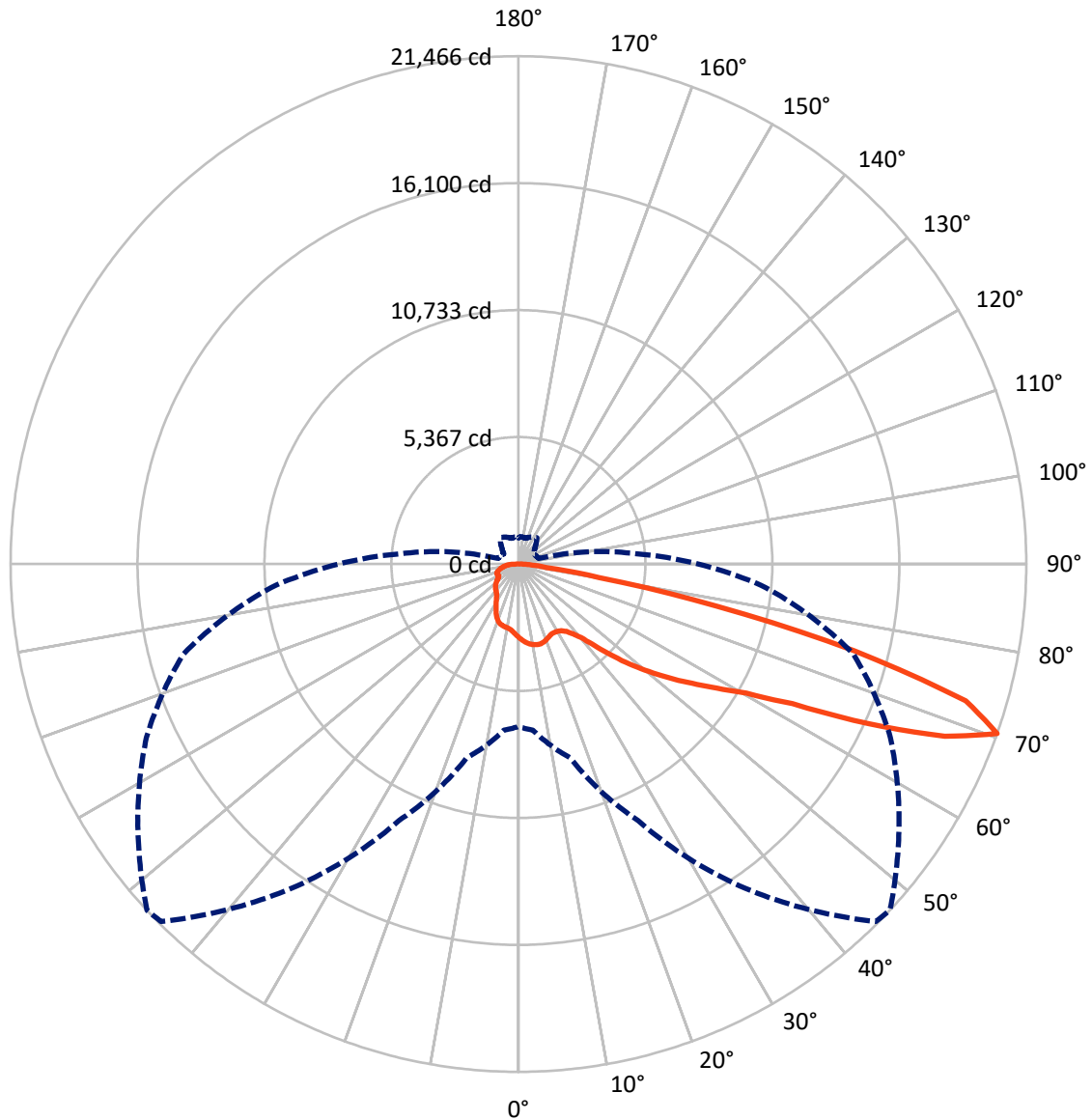
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	5581.9	0.0	5581.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	21174.4	0.0	21174.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	26756.3	0.0	26756.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.5	1.1
10°-20°	872.7	3.3
20°-30°	1288.7	4.8
30°-40°	1873.2	7.0
40°-50°	3371.0	12.6
50°-60°	5839.9	21.8
60°-70°	8335.3	31.2
70°-80°	4278.9	16.0
80°-90°	599.0	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°	26756.3	100.0
0°-180°	26756.3	100.0

Coefficient of Utilization



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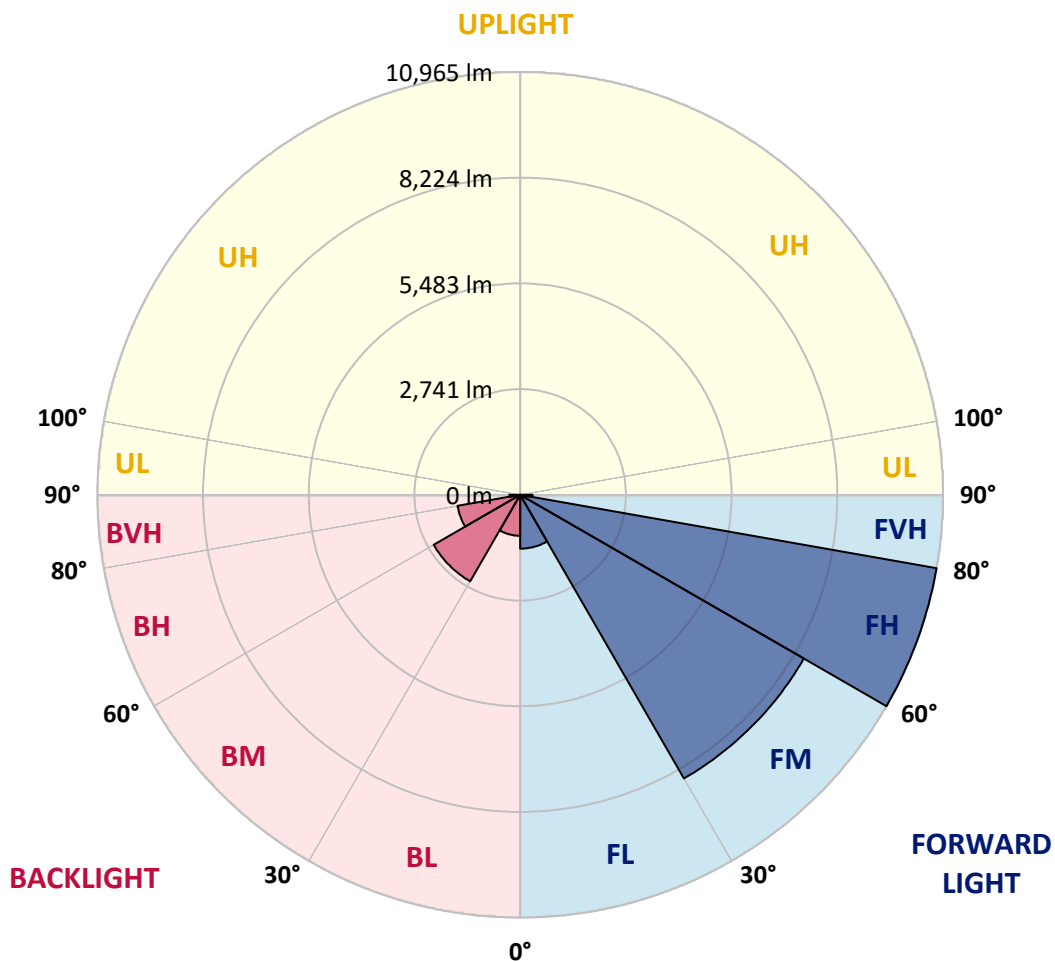
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1396.1	5.2			
FM	(30°-60°)	8493.2	31.7			
FH	(60°-80°)	10965.5	41.0			G4/12000
FVH	(80°-90°)	319.7	1.2			G3/500
BL	(0°-30°)	1062.8	4.0	B3/2500		
BM	(30°-60°)	2590.9	9.7	B3/5000		
BH	(60°-80°)	1648.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	279.4	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°	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6
2.5°	3286.8	3280.3	3277.7	3272.5	3266.0	3233.4	3226.9	3203.5	3170.9	3137.1	3102.0
5°	3502.9	3501.6	3487.2	3461.3	3419.6	3348.0	3331.0	3273.7	3197.0	3122.8	3048.6
7.5°	3693.0	3681.2	3653.9	3601.8	3528.9	3431.3	3407.9	3328.5	3223.0	3121.5	3021.3
10°	3832.2	3825.7	3765.8	3694.3	3599.3	3491.1	3463.8	3375.3	3259.4	3130.6	3005.6
12.5°	3911.7	3898.6	3829.6	3743.7	3630.5	3525.0	3497.7	3407.9	3277.7	3130.6	2983.5
15°	3906.4	3897.3	3828.3	3734.6	3620.0	3527.6	3502.9	3413.1	3273.7	3117.5	2954.9
17.5°	3802.3	3806.2	3747.6	3655.2	3561.5	3491.1	3469.0	3385.8	3247.8	3091.6	2921.0
20°	3620.0	3638.2	3599.3	3517.2	3465.1	3417.0	3402.6	3332.4	3207.4	3053.8	2884.6
22.5°	3437.8	3454.7	3439.1	3370.1	3362.3	3333.7	3325.8	3275.1	3172.3	3030.4	2862.4
25°	3303.7	3319.4	3316.7	3256.9	3280.3	3279.0	3272.5	3247.8	3164.4	3030.4	2866.3
27.5°	3267.3	3272.5	3267.3	3212.6	3245.1	3271.2	3266.0	3262.1	3187.9	3068.1	2915.8
30°	3392.2	3384.4	3344.1	3233.4	3263.4	3299.8	3294.6	3297.2	3258.2	3167.1	3026.5
32.5°	3890.8	3855.6	3728.0	3417.0	3337.6	3357.1	3359.7	3402.6	3409.2	3319.4	3198.3
35°	4636.6	4597.7	4432.3	3909.0	3568.0	3500.2	3500.2	3565.4	3604.4	3538.1	3465.1
37.5°	5426.8	5383.9	5295.3	4591.1	4052.2	3748.9	3742.4	3788.0	3843.9	3859.6	3877.8
40°	6325.0	6279.4	6304.1	5356.5	4727.8	4179.8	4087.3	4054.8	4205.8	4306.0	4451.8
42.5°	7307.8	7286.9	7296.1	6209.1	5497.1	4824.1	4692.7	4524.7	4707.0	4885.3	5191.2
45°	8217.7	8235.9	8226.8	7121.6	6353.6	5610.4	5471.0	5145.6	5323.9	5629.9	6128.4
47.5°	9014.3	8938.9	9056.0	8118.8	7313.0	6490.3	6318.5	5882.4	6063.3	6440.8	7284.3
50°	9981.4	9971.0	9799.3	9449.1	8472.8	7374.1	7149.0	6643.9	6925.1	7449.6	8740.9
52.5°	10998.1	10809.3	10651.9	10483.9	9702.9	8280.2	8004.2	7402.8	7937.8	8597.8	10516.4
55°	11206.3	11121.7	11317.0	11599.4	10888.8	9221.3	8899.8	8354.3	9078.1	9909.8	12564.1
57.5°	11651.5	11650.3	12053.7	12557.5	12109.8	10219.7	9895.5	9503.7	10360.2	11413.4	14737.9
60°	11952.3	12036.9	12786.7	13764.2	13308.6	11373.0	11074.9	10830.2	11818.2	13093.9	16763.3
62.5°	12109.8	12224.3	13247.4	14253.7	15003.4	13293.0	12995.0	12642.1	13747.3	14937.0	17947.9
65°	11455.0	11680.2	13175.8	14676.7	16487.4	16405.4	16271.3	15651.7	16159.3	16393.7	17519.7
67.5°	9643.1	9873.4	11615.1	14282.3	17547.0	19407.1	19435.8	18377.4	17643.3	16518.6	14730.1
70°	6870.4	7051.3	8492.3	11974.4	16739.9	21368.7	21466.4	19633.6	17347.8	14649.4	10291.3
72.5°	3262.1	3372.7	4736.9	7793.4	13283.9	19579.0	19767.7	18029.9	14751.0	10845.8	5614.3
75°	1198.9	1232.8	1601.1	3315.5	7704.8	14438.5	14661.1	12924.6	9778.4	5399.4	2138.7
77.5°	718.5	740.7	898.2	1399.3	3030.4	8252.8	8582.1	7029.2	4273.5	2009.8	1051.8
80°	502.5	518.1	644.4	870.8	1431.8	3145.0	3437.8	2869.0	1702.6	1271.7	765.4
82.5°	339.7	347.6	453.0	588.4	951.5	1123.4	1211.9	1275.6	1148.1	946.3	485.5
85°	222.6	230.4	307.2	387.9	605.3	580.5	593.6	751.1	838.3	643.0	269.4
87.5°	127.6	132.8	184.8	206.9	296.8	246.0	248.6	395.7	536.3	433.4	164.0
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°	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6
2.5°	3092.9	3075.9	3038.2	3014.7	2992.6	2987.4	2978.3	2977.0	2975.7	2975.7	2971.8
5°	3023.8	2995.2	2936.7	2904.1	2876.7	2874.2	2872.9	2879.4	2882.0	2884.6	2880.6
7.5°	2979.7	2940.6	2867.6	2820.8	2788.3	2780.5	2793.5	2823.4	2842.9	2850.8	2846.9
10°	2952.2	2904.1	2819.5	2768.7	2741.4	2737.5	2754.4	2789.6	2829.9	2845.5	2844.2
12.5°	2921.0	2866.3	2776.5	2723.2	2707.5	2715.3	2737.5	2770.0	2811.7	2836.4	2837.7
15°	2889.7	2826.0	2733.5	2686.7	2680.2	2690.7	2711.4	2736.2	2768.7	2793.5	2796.0
17.5°	2852.0	2785.6	2693.2	2645.0	2639.8	2645.0	2646.4	2659.4	2680.2	2703.7	2710.1
20°	2811.7	2744.0	2647.7	2599.5	2576.1	2555.2	2531.8	2534.5	2540.9	2564.3	2569.6
22.5°	2783.0	2715.3	2612.5	2546.1	2483.6	2421.1	2374.3	2367.8	2370.4	2389.9	2396.5
25°	2785.6	2714.1	2603.4	2488.8	2352.2	2251.9	2189.4	2179.1	2177.8	2192.1	2201.2
27.5°	2836.4	2764.8	2637.3	2430.3	2209.0	2060.6	1994.2	1986.4	1976.0	1979.9	1990.4
30°	2949.7	2883.3	2719.3	2370.4	2054.1	1873.1	1804.2	1796.3	1782.1	1775.5	1783.3
32.5°	3134.5	3079.8	2839.0	2313.1	1899.2	1713.0	1642.8	1625.9	1616.7	1608.9	1615.4
35°	3441.7	3418.3	2999.1	2250.7	1762.5	1589.4	1525.6	1499.5	1486.6	1500.9	1511.3
37.5°	3923.3	3936.3	3208.7	2153.0	1657.1	1507.4	1454.0	1424.0	1404.5	1416.3	1427.9
40°	4605.4	4614.5	3440.4	2015.0	1565.9	1459.2	1402.0	1374.6	1347.2	1326.5	1325.1
42.5°	5501.0	5408.5	3668.2	1865.4	1460.5	1429.3	1365.5	1331.7	1289.9	1232.8	1221.0
45°	6563.2	6239.1	3841.3	1693.5	1342.0	1392.8	1325.1	1278.3	1213.2	1150.7	1144.2
47.5°	7786.8	7130.7	3926.0	1515.2	1231.4	1339.5	1275.6	1201.5	1119.4	1088.2	1084.3
50°	9281.1	8189.0	3966.3	1342.0	1135.1	1269.2	1204.1	1116.9	1047.9	1041.4	1037.5
52.5°	10982.5	9462.1	3979.3	1200.1	1055.7	1178.0	1145.5	1060.9	1006.2	1011.4	1011.4
55°	12763.3	10776.8	3802.3	1097.3	982.7	1084.3	1106.4	1038.8	993.2	1014.1	1021.8
57.5°	14398.1	11941.8	3245.1	1017.9	913.8	1012.7	1092.1	1059.6	1028.4	1113.0	1118.2
60°	15653.0	12630.5	2423.8	946.3	863.1	988.0	1129.8	1139.0	1146.8	1348.6	1375.9
62.5°	15915.9	12401.3	1666.2	890.4	839.6	1008.8	1198.9	1200.1	1191.0	1331.7	1348.6
65°	14709.2	10952.5	1211.9	859.1	820.1	1046.6	1257.4	1230.1	1170.3	1276.9	1245.7
67.5°	11681.5	8251.5	1008.8	835.6	791.5	1043.9	1319.9	1257.4	1158.5	1251.0	1200.1
70°	7582.4	4989.4	898.2	816.2	757.6	994.5	1356.3	1254.9	1124.6	1163.7	1103.9
72.5°	3699.4	2231.2	824.0	787.6	722.4	925.5	1355.1	1231.4	1089.5	1086.9	1054.4
75°	1447.5	1021.8	756.3	744.6	662.6	847.4	1318.6	1197.6	1047.9	1006.2	994.5
77.5°	847.4	729.0	670.3	680.8	591.0	769.3	1265.3	1139.0	990.6	941.1	928.1
80°	617.0	545.4	571.4	588.4	505.0	691.2	1193.7	1067.3	926.8	951.5	933.3
82.5°	395.7	351.5	463.4	480.4	420.4	611.8	1115.5	991.9	837.0	760.2	741.9
85°	201.7	222.6	344.9	365.8	324.2	502.5	1020.5	891.7	735.5	632.6	643.0
87.5°	113.2	152.3	220.0	246.0	229.1	386.6	827.9	735.5	600.1	488.2	429.5
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)