

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: P268718

Luminaire Tested: **GAN-AF-07-LED-U-T4W-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268718
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-07-LED-U-T4W-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23932.4 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 226
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

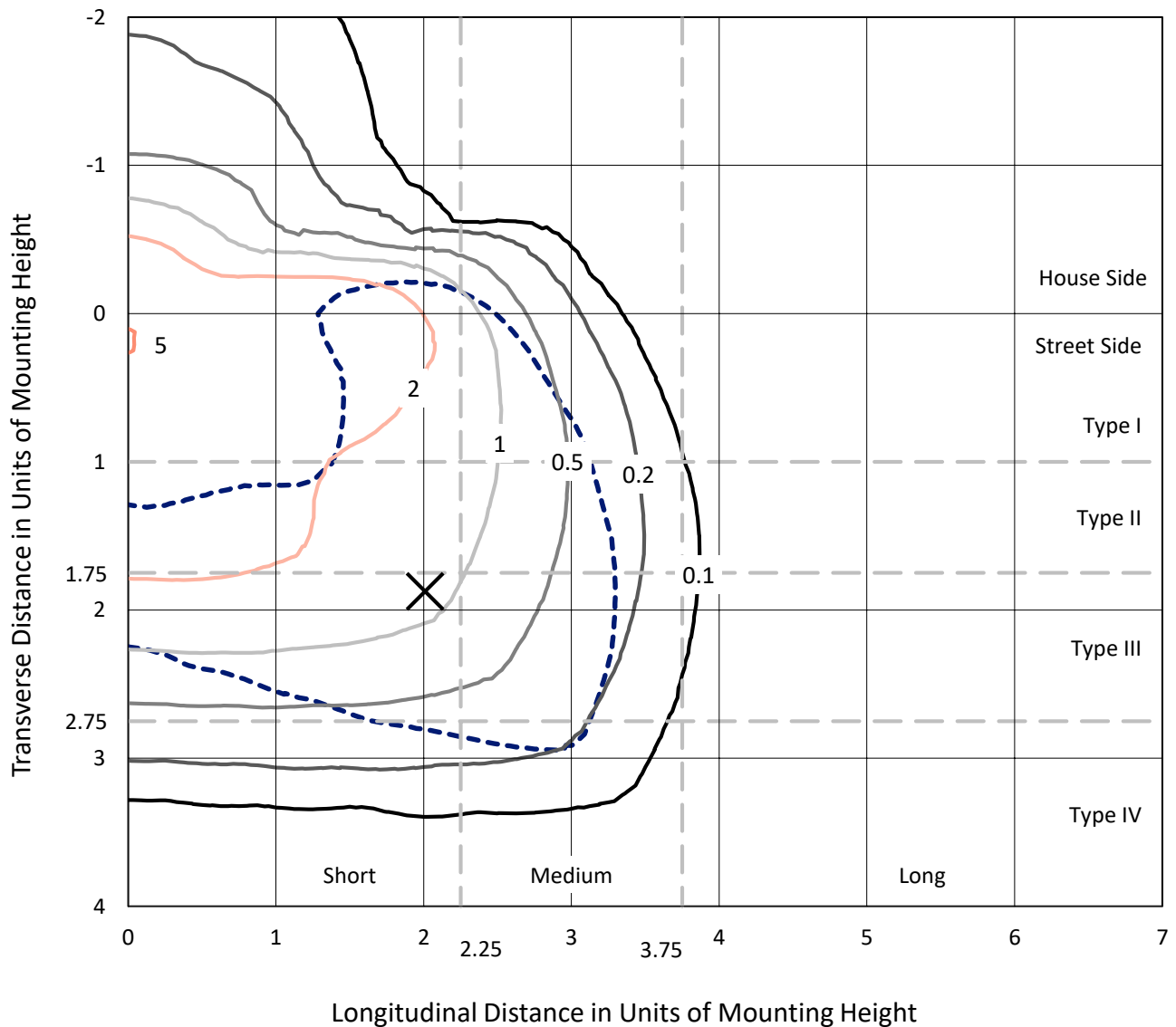


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

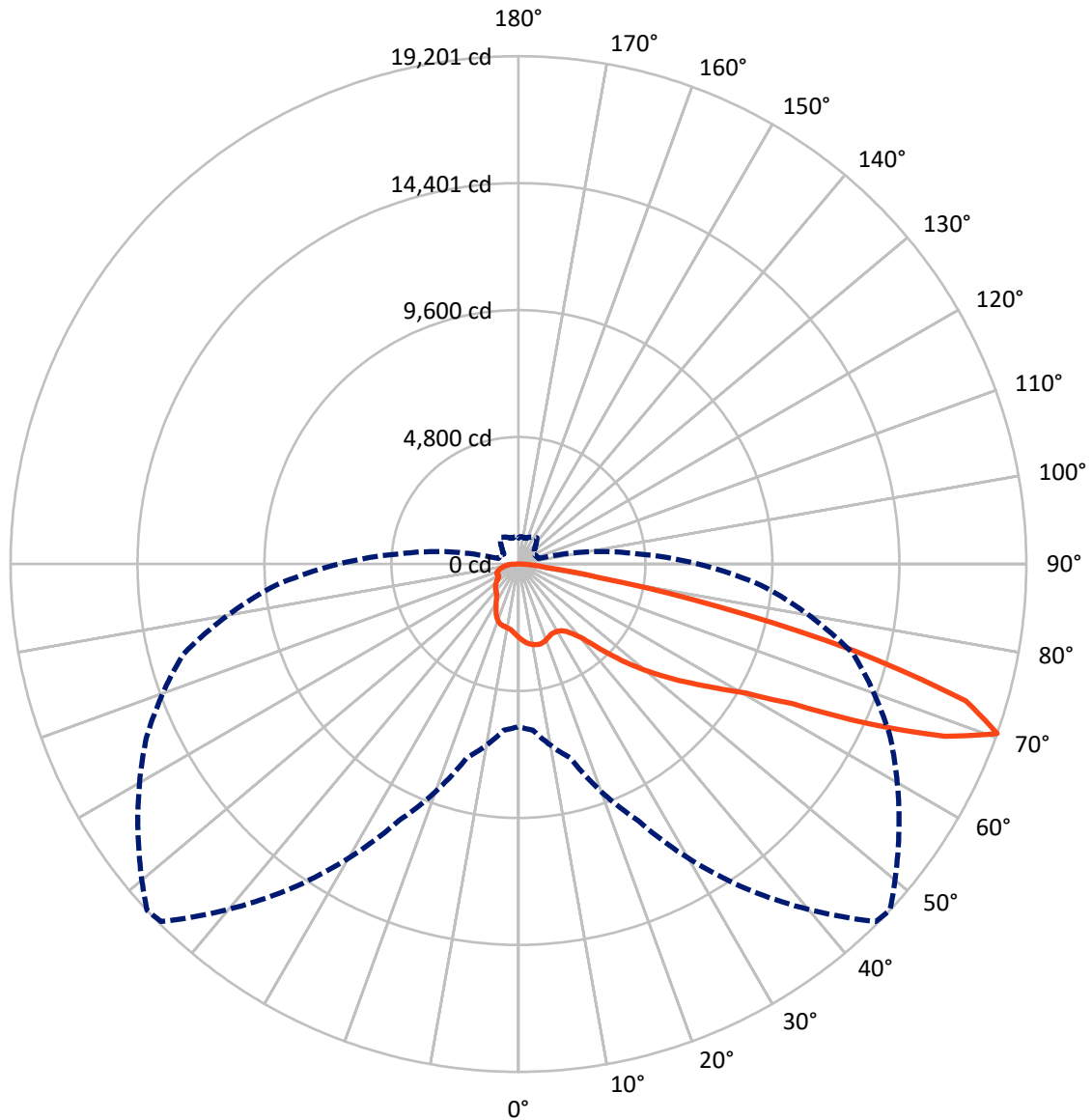


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Semi-Cutoff

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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	4992.8	0.0	4992.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	18939.7	0.0	18939.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	23932.4	0.0	23932.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.1	1.1
10°-20°	780.6	3.3
20°-30°	1152.7	4.8
30°-40°	1675.5	7.0
40°-50°	3015.3	12.6
50°-60°	5223.6	21.8
60°-70°	7455.6	31.2
70°-80°	3827.3	16.0
80°-90°	535.8	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°	23932.4	100.0
0°-180°	23932.4	100.0

Coefficient of Utilization



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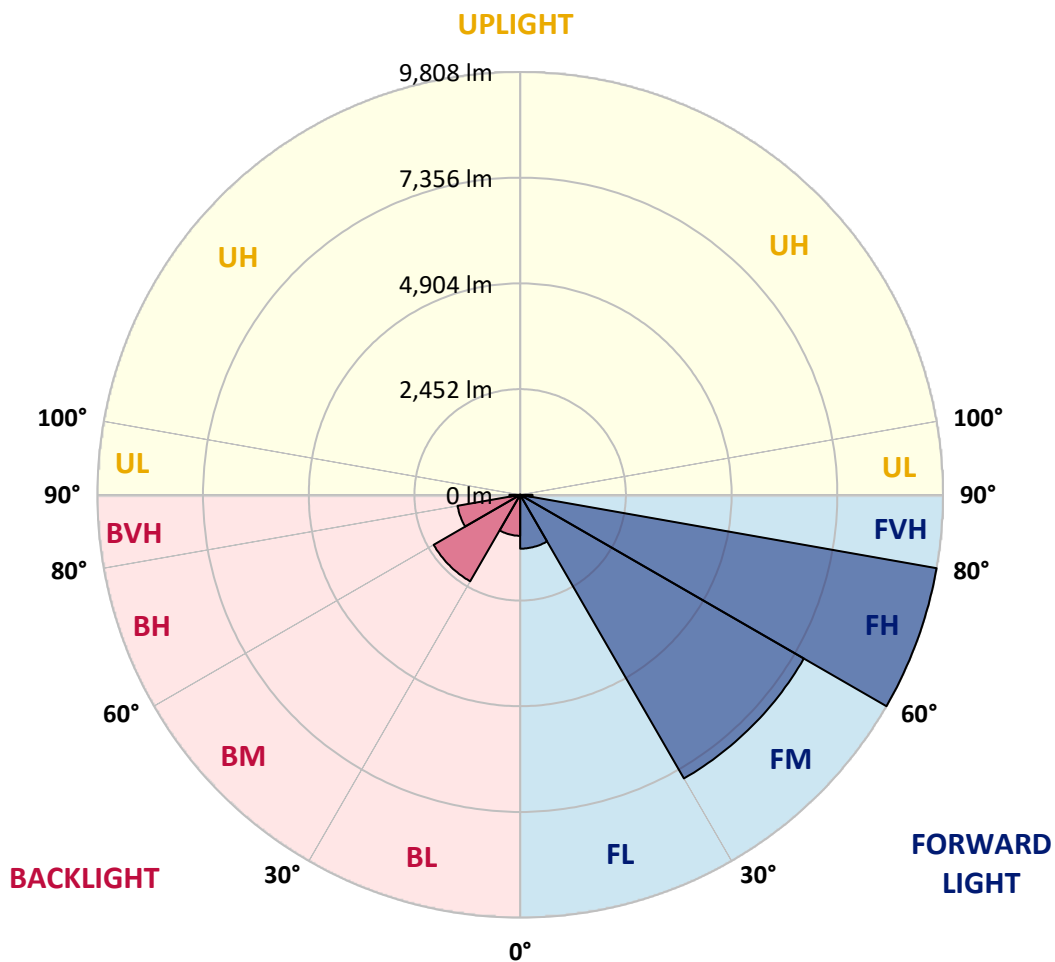
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1248.7	5.2			
FM	(30°-60°)	7596.8	31.7			
FH	(60°-80°)	9808.2	41.0			G4/12000
FVH	(80°-90°)	285.9	1.2			G3/500
BL	(0°-30°)	950.6	4.0	B2/1000		
BM	(30°-60°)	2317.5	9.7	B2/2500		
BH	(60°-80°)	1474.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	249.9	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°	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9
2.5°	2940.0	2934.1	2931.8	2927.0	2921.3	2892.2	2886.3	2865.5	2836.3	2806.0	2774.5
5°	3133.2	3132.0	3119.3	3095.9	3058.6	2994.6	2979.5	2928.2	2859.6	2793.2	2726.8
7.5°	3303.2	3292.6	3268.3	3221.7	3156.5	3069.1	3048.2	2977.2	2882.9	2792.0	2702.5
10°	3427.8	3422.0	3368.4	3304.3	3219.3	3122.7	3098.3	3019.2	2915.4	2800.1	2688.4
12.5°	3498.8	3487.1	3425.4	3348.6	3247.4	3153.1	3128.5	3048.2	2931.8	2800.1	2668.7
15°	3494.1	3486.1	3424.2	3340.4	3238.0	3155.2	3133.2	3052.9	2928.2	2788.6	2643.1
17.5°	3401.1	3404.4	3352.0	3269.4	3185.6	3122.7	3102.9	3028.4	2904.9	2765.3	2612.7
20°	3238.0	3254.3	3219.3	3146.0	3099.4	3056.4	3043.5	2980.7	2868.8	2731.4	2580.1
22.5°	3075.0	3090.1	3076.2	3014.4	3007.4	2981.8	2974.8	2929.5	2837.4	2710.5	2560.3
25°	2955.1	2969.0	2966.7	2913.2	2934.1	2933.0	2927.0	2904.9	2830.5	2710.5	2563.9
27.5°	2922.5	2927.0	2922.5	2873.6	2902.7	2925.9	2921.3	2917.8	2851.4	2744.3	2608.0
30°	3034.2	3027.3	2991.1	2892.2	2919.0	2951.6	2946.9	2949.2	2914.3	2832.7	2707.0
32.5°	3480.2	3448.8	3334.6	3056.4	2985.2	3002.8	3005.1	3043.5	3049.3	2969.0	2860.7
35°	4147.4	4112.4	3964.5	3496.5	3191.4	3130.9	3130.9	3189.1	3223.9	3164.5	3099.4
37.5°	4854.0	4815.6	4736.5	4106.5	3624.5	3353.3	3347.4	3388.1	3438.3	3452.2	3468.5
40°	5657.4	5616.7	5638.8	4791.2	4228.9	3738.7	3656.0	3626.8	3761.9	3851.6	3981.9
42.5°	6536.4	6517.9	6526.0	5553.9	4917.0	4315.0	4197.4	4047.1	4210.1	4369.6	4643.2
45°	7350.4	7366.7	7358.6	6370.1	5683.0	5018.2	4893.6	4602.6	4762.1	5035.7	5481.6
47.5°	8062.9	7995.5	8100.1	7261.9	6541.2	5805.2	5651.6	5261.6	5423.3	5761.1	6515.5
50°	8928.1	8918.7	8765.0	8451.9	7578.6	6595.9	6394.5	5942.6	6194.3	6663.4	7818.4
52.5°	9837.3	9668.5	9527.7	9377.4	8678.9	7406.3	7159.4	6621.4	7100.1	7690.3	9406.5
55°	10023.6	9948.0	10122.6	10375.2	9739.6	8248.1	7960.5	7472.6	8120.0	8863.9	11238.1
57.5°	10421.9	10420.7	10781.6	11232.1	10831.8	9141.2	8851.2	8500.8	9266.8	10208.8	13182.4
60°	10690.8	10766.5	11437.1	12311.5	11904.0	10172.6	9906.1	9687.1	10570.9	11711.9	14994.1
62.5°	10831.8	10934.2	11849.4	12749.4	13420.0	11890.1	11623.3	11308.0	12296.4	13360.6	16053.7
65°	10246.1	10447.5	11785.3	13127.7	14747.4	14674.0	14554.0	13999.8	14453.9	14663.5	15670.7
67.5°	8625.3	8831.3	10389.3	12774.9	15695.0	17358.8	17384.4	16437.9	15781.2	14775.2	13175.5
70°	6145.2	6307.1	7596.1	10710.6	14973.2	19113.4	19200.8	17561.4	15517.0	13103.2	9205.1
72.5°	2917.8	3016.8	4236.9	6970.8	11881.9	17512.5	17681.3	16127.0	13194.0	9701.2	5021.7
75°	1072.3	1102.6	1432.1	2965.6	6891.6	12914.7	13113.7	11560.6	8746.3	4829.6	1913.0
77.5°	642.6	662.5	803.4	1251.7	2710.5	7381.8	7676.3	6287.3	3822.5	1797.7	940.7
80°	449.4	463.3	576.4	778.9	1280.8	2813.0	3075.0	2566.2	1522.9	1137.6	684.6
82.5°	303.8	310.9	405.1	526.2	851.1	1004.8	1084.0	1141.0	1026.9	846.5	434.3
85°	199.2	206.2	274.8	346.9	541.4	519.3	530.9	671.8	749.8	575.2	241.0
87.5°	114.2	118.8	165.4	185.1	265.4	220.1	222.4	353.9	479.8	387.7	146.8
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°	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9	2776.9
2.5°	2766.4	2751.2	2717.6	2696.5	2676.8	2672.1	2664.0	2662.8	2661.7	2661.7	2658.2
5°	2704.7	2679.1	2626.7	2597.5	2573.1	2570.8	2569.6	2575.5	2577.7	2580.1	2576.7
7.5°	2665.1	2630.1	2565.0	2523.1	2494.0	2487.0	2498.6	2525.4	2542.9	2549.8	2546.3
10°	2640.7	2597.5	2521.9	2476.4	2452.1	2448.6	2463.7	2495.1	2531.2	2545.2	2544.0
12.5°	2612.7	2563.9	2483.5	2435.8	2421.8	2428.7	2448.6	2477.6	2515.0	2537.1	2538.3
15°	2584.9	2527.7	2445.0	2403.1	2397.3	2406.6	2425.2	2447.4	2476.4	2498.6	2501.1
17.5°	2551.0	2491.7	2409.0	2365.9	2361.3	2365.9	2367.0	2378.7	2397.3	2418.2	2424.2
20°	2515.0	2454.3	2368.2	2325.2	2304.2	2285.6	2264.5	2267.0	2272.7	2293.7	2298.4
22.5°	2489.4	2428.7	2336.9	2277.5	2221.5	2165.6	2123.8	2117.9	2120.2	2137.6	2143.5
25°	2491.7	2427.6	2328.6	2226.2	2103.9	2014.3	1958.3	1949.1	1948.0	1960.7	1968.8
27.5°	2537.1	2473.0	2358.9	2173.8	1975.8	1843.1	1783.8	1776.8	1767.4	1770.9	1780.3
30°	2638.3	2578.9	2432.3	2120.2	1837.4	1675.5	1613.7	1606.8	1594.0	1588.2	1595.1
32.5°	2803.7	2754.8	2539.4	2068.9	1698.8	1532.2	1469.4	1454.3	1446.1	1439.2	1445.0
35°	3078.5	3057.6	2682.6	2013.1	1576.4	1421.7	1364.5	1341.3	1329.6	1342.4	1351.8
37.5°	3509.3	3520.8	2870.1	1925.7	1482.2	1348.3	1300.6	1273.7	1256.3	1266.8	1277.3
40°	4119.4	4127.5	3077.4	1802.4	1400.6	1305.1	1253.9	1229.5	1205.0	1186.4	1185.3
42.5°	4920.5	4837.7	3281.1	1668.5	1306.3	1278.4	1221.3	1191.2	1153.9	1102.6	1092.1
45°	5870.6	5580.6	3435.8	1514.8	1200.5	1245.8	1185.3	1143.4	1085.2	1029.3	1023.3
47.5°	6965.0	6378.1	3511.7	1355.3	1101.4	1198.1	1141.0	1074.6	1001.3	973.4	969.9
50°	8301.6	7324.8	3547.6	1200.5	1015.3	1135.2	1077.0	998.9	937.3	931.5	927.9
52.5°	9823.3	8463.4	3559.4	1073.6	944.3	1053.7	1024.5	948.9	900.0	904.7	904.7
55°	11416.2	9639.4	3401.1	981.5	879.0	969.9	989.7	929.1	888.3	907.0	913.9
57.5°	12878.6	10681.4	2902.7	910.5	817.4	905.9	976.8	947.7	919.9	995.5	1000.2
60°	14001.0	11297.4	2168.0	846.5	772.0	883.8	1010.7	1018.8	1025.8	1206.2	1230.7
62.5°	14236.2	11092.5	1490.4	796.3	751.1	902.3	1072.3	1073.6	1065.4	1191.2	1206.2
65°	13156.8	9796.6	1084.0	768.5	733.6	936.2	1124.8	1100.2	1046.7	1142.3	1114.3
67.5°	10448.6	7380.7	902.3	747.5	708.0	933.8	1180.6	1124.8	1036.3	1118.8	1073.6
70°	6782.2	4462.9	803.4	730.1	677.6	889.5	1213.3	1122.4	1006.0	1040.9	987.3
72.5°	3308.9	1995.7	737.0	704.5	646.2	827.9	1212.1	1101.4	974.5	972.2	943.1
75°	1294.7	913.9	676.5	666.1	592.6	758.0	1179.5	1071.1	937.3	900.0	889.5
77.5°	758.0	652.0	599.6	609.0	528.7	688.1	1131.8	1018.8	886.1	841.8	830.2
80°	551.9	487.9	511.1	526.2	451.8	618.3	1067.6	954.8	829.0	851.1	834.9
82.5°	353.9	314.3	414.5	429.6	376.1	547.2	997.8	887.3	748.6	679.9	663.7
85°	180.5	199.2	308.6	327.2	290.0	449.4	912.9	797.5	657.9	565.8	575.2
87.5°	101.2	136.3	196.8	220.1	205.0	345.8	740.6	657.9	536.7	436.7	384.2
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)