

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: P194105

Luminaire Tested: **GAN-AF-07-LED-U-T4W-8030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194105
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-8030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27564 lumens
Efficiency: N/A
Efficacy: 93.4 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): 295
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

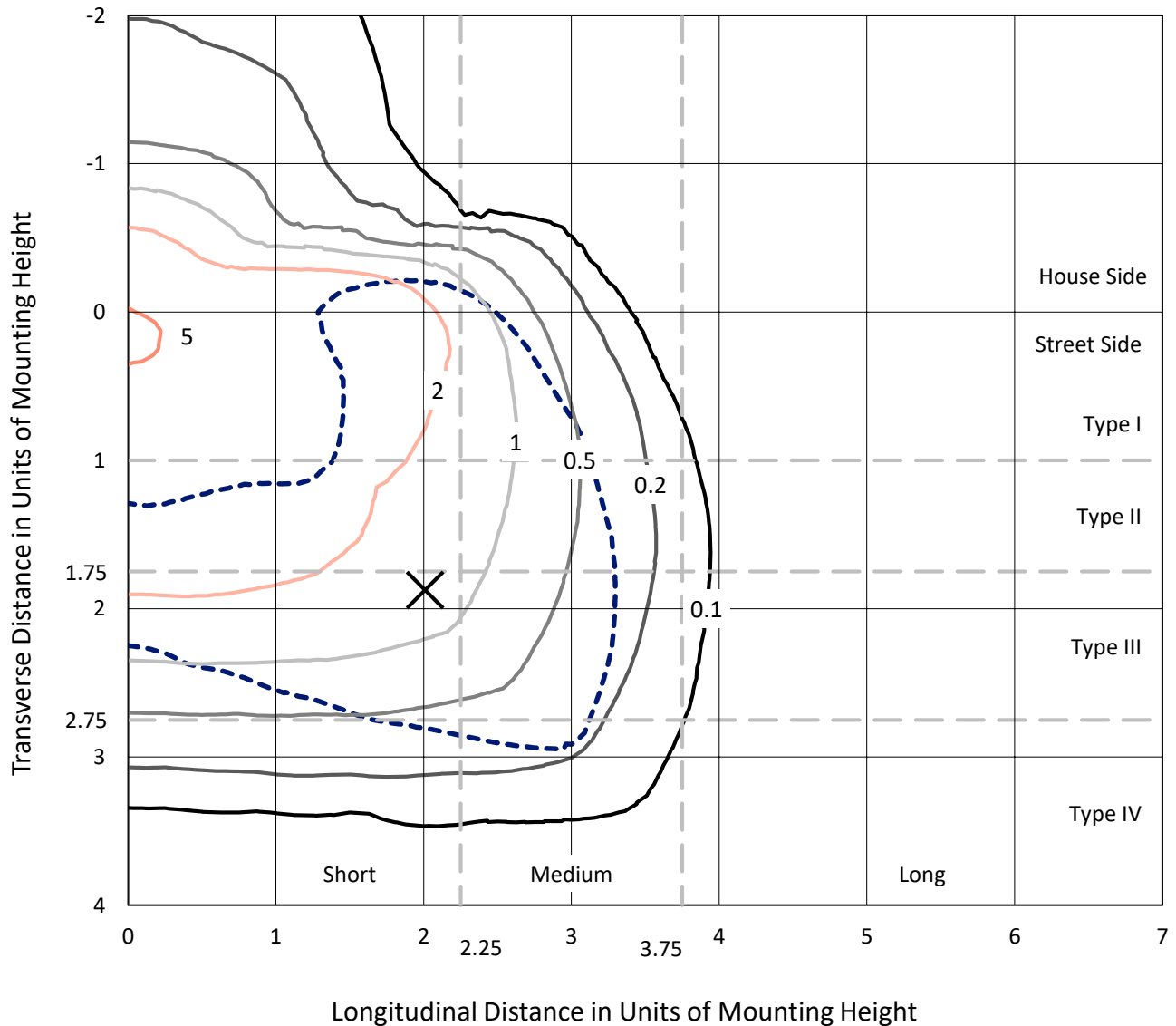


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

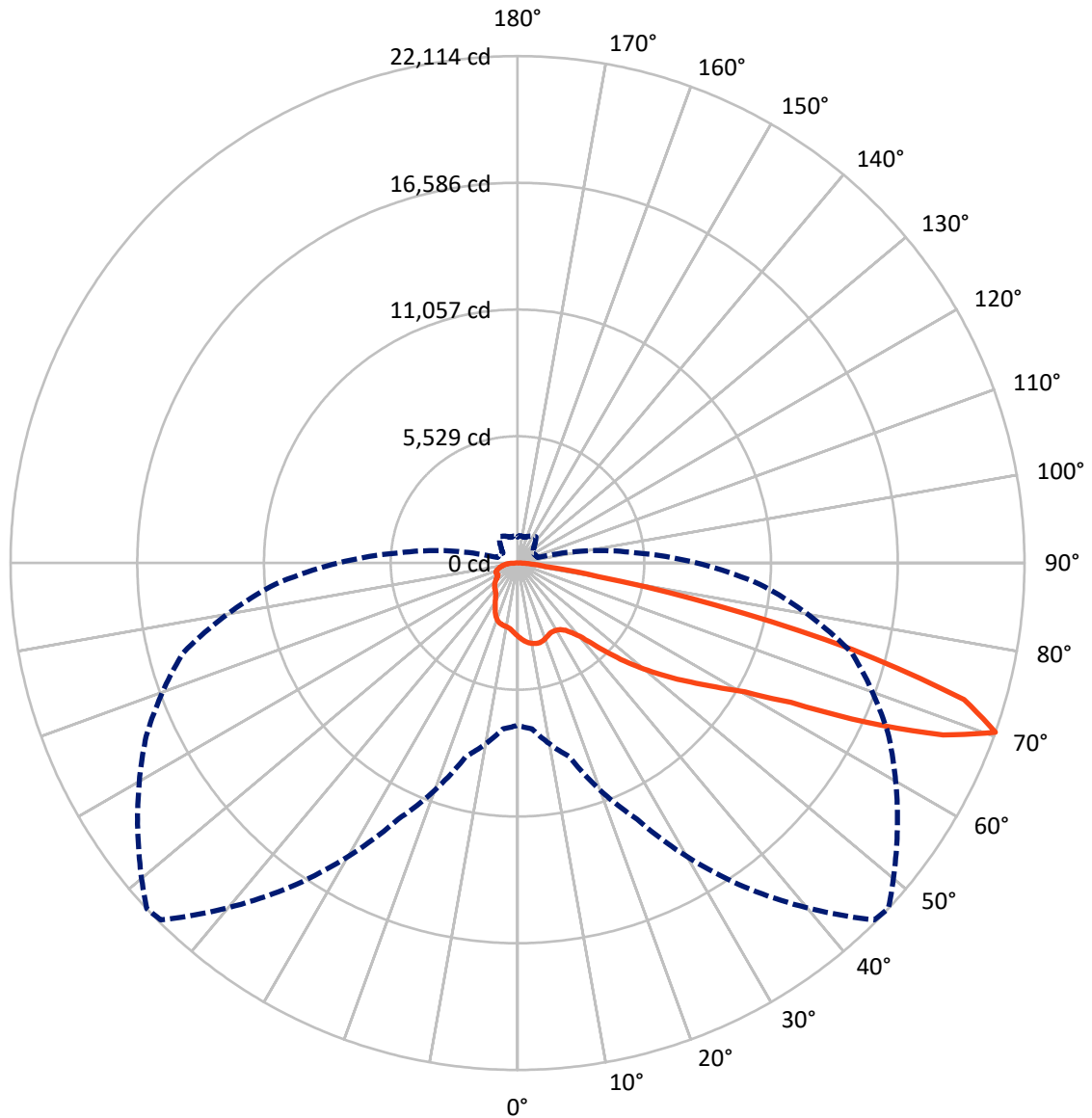


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

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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	5750.4	0.0	5750.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	21813.6	0.0	21813.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	27564.0	0.0	27564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.4	1.1
10°-20°	899.0	3.3
20°-30°	1327.6	4.8
30°-40°	1929.7	7.0
40°-50°	3472.8	12.6
50°-60°	6016.2	21.8
60°-70°	8586.9	31.2
70°-80°	4408.1	16.0
80°-90°	617.1	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°	27564.0	100.0
0°-180°	27564.0	100.0

Coefficient of Utilization



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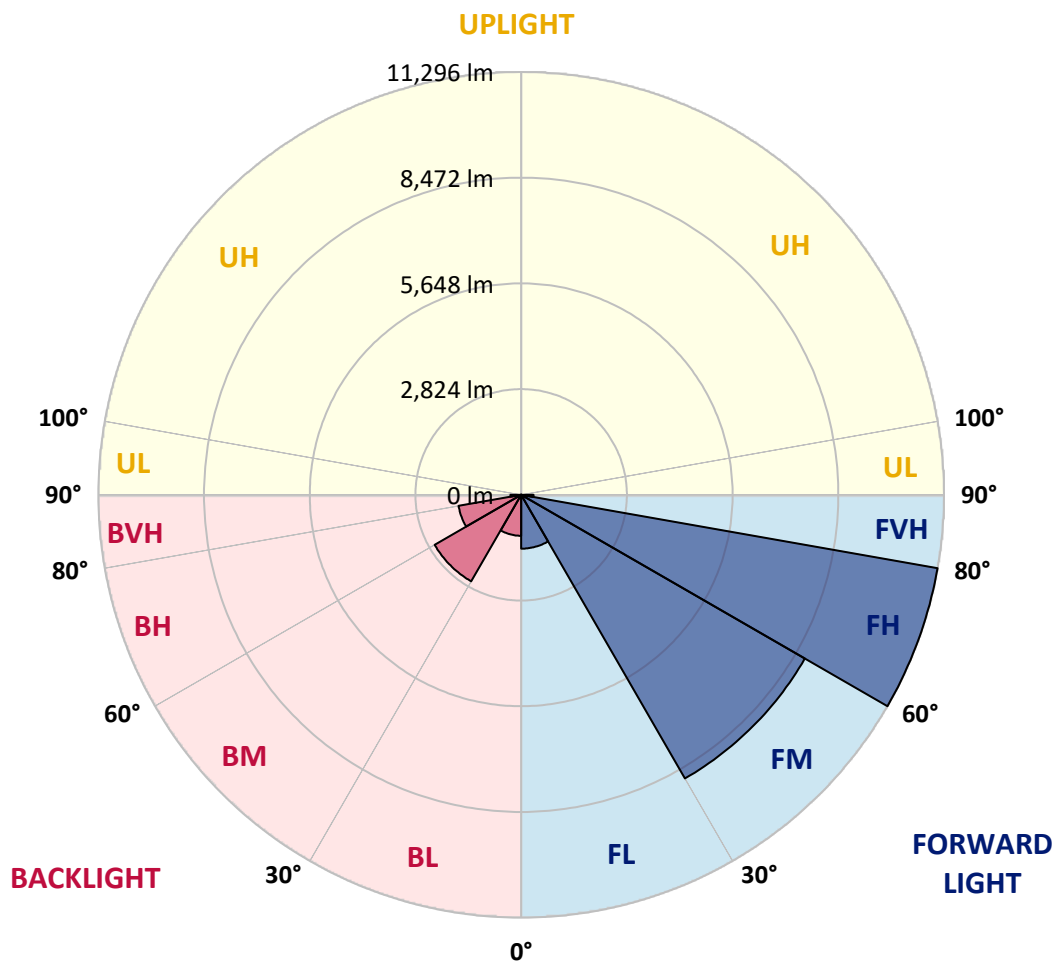
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1438.2	5.2			
FM	(30°-60°)	8749.6	31.7			
FH	(60°-80°)	11296.5	41.0			G4/12000
FVH	(80°-90°)	329.3	1.2			G3/500
BL	(0°-30°)	1094.9	4.0	B3/2500		
BM	(30°-60°)	2669.2	9.7	B3/5000		
BH	(60°-80°)	1698.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	287.8	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°	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3
2.5°	3386.0	3379.3	3376.6	3371.3	3364.6	3331.0	3324.3	3300.2	3266.7	3231.8	3195.6
5°	3608.6	3607.3	3592.5	3565.7	3522.8	3449.0	3431.6	3372.6	3293.5	3217.1	3140.6
7.5°	3804.4	3792.3	3764.2	3710.5	3635.4	3534.9	3510.7	3428.9	3320.3	3215.7	3112.5
10°	3947.9	3941.2	3879.5	3805.8	3707.9	3596.6	3568.4	3477.2	3357.9	3225.1	3096.4
12.5°	4029.7	4016.3	3945.2	3856.7	3740.0	3631.4	3603.3	3510.7	3376.6	3225.1	3073.6
15°	4024.3	4015.0	3943.9	3847.3	3729.3	3634.1	3608.6	3516.1	3372.6	3211.7	3044.1
17.5°	3917.1	3921.1	3860.7	3765.5	3669.0	3596.6	3573.8	3487.9	3345.8	3184.9	3009.2
20°	3729.3	3748.1	3707.9	3623.4	3569.7	3520.1	3505.4	3433.0	3304.2	3146.0	2971.7
22.5°	3541.6	3559.0	3542.9	3471.8	3463.8	3434.3	3426.3	3374.0	3268.0	3121.8	2948.9
25°	3403.5	3419.5	3416.9	3355.2	3379.3	3378.0	3371.3	3345.8	3260.0	3121.8	2952.9
27.5°	3365.9	3371.3	3365.9	3309.6	3343.1	3369.9	3364.6	3360.5	3284.1	3160.7	3003.8
30°	3494.6	3486.6	3445.0	3331.0	3361.9	3399.4	3394.1	3396.7	3356.5	3262.7	3117.8
32.5°	4008.2	3972.0	3840.6	3520.1	3438.3	3458.4	3461.1	3505.4	3512.1	3419.5	3294.8
35°	4776.6	4736.4	4566.1	4027.0	3675.7	3605.9	3605.9	3673.0	3713.2	3644.8	3569.7
37.5°	5590.6	5546.4	5455.2	4729.7	4174.5	3862.1	3855.4	3902.3	3960.0	3976.1	3994.8
40°	6515.9	6469.0	6494.5	5518.2	4870.5	4305.9	4210.7	4177.2	4332.8	4436.0	4586.2
42.5°	7528.4	7506.9	7516.3	6396.6	5663.0	4969.7	4834.3	4661.3	4849.1	5032.8	5347.9
45°	8465.7	8484.5	8475.1	7336.6	6545.4	5779.7	5636.2	5301.0	5484.7	5799.8	6313.4
47.5°	9286.4	9208.6	9329.3	8363.8	7533.7	6686.2	6509.2	6060.0	6246.4	6635.3	7504.2
50°	10282.8	10272.1	10095.0	9734.3	8728.6	7596.8	7364.8	6844.5	7134.1	7674.5	9004.8
52.5°	11330.1	11135.7	10973.4	10800.4	9995.8	8530.1	8245.8	7626.3	8177.4	8857.3	10833.9
55°	11544.7	11457.5	11658.6	11949.6	11217.5	9499.6	9168.4	8606.5	9352.1	10209.0	12943.3
57.5°	12003.3	12001.9	12417.6	12936.6	12475.3	10528.2	10194.3	9790.6	10673.0	11757.9	15182.8
60°	12313.1	12400.2	13172.6	14179.7	13710.4	11716.3	11409.2	11157.1	12174.9	13489.1	17269.4
62.5°	12475.3	12593.3	13647.3	14683.9	15456.4	13694.3	13387.2	13023.8	14162.3	15388.0	18489.7
65°	11800.8	12032.8	13573.6	15119.8	16985.1	16900.6	16762.5	16124.2	16647.2	16888.5	18048.5
67.5°	9934.1	10171.5	11965.7	14713.4	18076.7	19993.0	20022.5	18932.2	18175.9	17017.3	15174.7
70°	7077.8	7264.2	8748.7	12335.8	17245.2	22013.8	22114.4	20226.3	17871.5	15091.6	10601.9
72.5°	3360.5	3474.5	4879.9	8028.6	13684.9	20170.0	20364.4	18574.2	15196.2	11173.2	5783.7
75°	1235.1	1269.9	1649.4	3415.5	7937.4	14874.4	15103.7	13314.8	10073.6	5562.5	2203.3
77.5°	740.2	763.0	925.3	1441.6	3121.8	8501.9	8841.2	7241.4	4402.5	2070.5	1083.5
80°	517.6	533.7	663.8	897.1	1475.1	3239.9	3541.6	2955.6	1754.0	1310.2	788.5
82.5°	350.0	358.0	466.7	606.1	980.3	1157.3	1248.5	1314.2	1182.8	974.9	500.2
85°	229.3	237.4	316.5	399.6	623.6	598.1	611.5	773.8	863.6	662.5	277.6
87.5°	131.4	136.8	190.4	213.2	305.7	253.4	256.1	407.7	552.5	446.6	169.0
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°	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3
2.5°	3186.2	3168.8	3129.9	3105.8	3083.0	3077.6	3068.2	3066.9	3065.5	3065.5	3061.5
5°	3115.1	3085.6	3025.3	2991.8	2963.6	2960.9	2959.6	2966.3	2969.0	2971.7	2967.6
7.5°	3069.5	3029.3	2954.2	2905.9	2872.4	2864.4	2877.8	2908.6	2928.7	2936.8	2932.8
10°	3041.4	2991.8	2904.6	2852.3	2824.1	2820.1	2837.6	2873.8	2915.3	2931.4	2930.1
12.5°	3009.2	2952.9	2860.4	2805.4	2789.3	2797.3	2820.1	2853.6	2896.6	2922.0	2923.4
15°	2977.0	2911.3	2816.1	2767.8	2761.1	2771.8	2793.3	2818.8	2852.3	2877.8	2880.5
17.5°	2938.1	2869.7	2774.5	2724.9	2719.5	2724.9	2726.3	2739.7	2761.1	2785.3	2792.0
20°	2896.6	2826.8	2727.6	2678.0	2653.8	2632.4	2608.2	2610.9	2617.6	2641.8	2647.1
22.5°	2867.1	2797.3	2691.4	2623.0	2558.6	2494.3	2446.0	2439.3	2442.0	2462.1	2468.8
25°	2869.7	2796.0	2682.0	2564.0	2423.2	2319.9	2255.6	2244.8	2243.5	2258.2	2267.6
27.5°	2922.0	2848.3	2716.9	2503.6	2275.7	2122.8	2054.4	2046.4	2035.6	2039.7	2050.4
30°	3038.7	2970.3	2801.3	2442.0	2116.1	1929.7	1858.6	1850.6	1835.8	1829.1	1837.2
32.5°	3229.1	3172.8	2924.7	2383.0	1956.5	1764.8	1692.3	1674.9	1665.5	1657.5	1664.2
35°	3545.6	3521.5	3089.7	2318.6	1815.7	1637.4	1571.7	1544.8	1531.4	1546.2	1556.9
37.5°	4041.8	4055.2	3305.6	2218.0	1707.1	1552.9	1497.9	1467.1	1446.9	1459.0	1471.1
40°	4744.5	4753.8	3544.3	2075.9	1613.2	1503.3	1444.3	1416.1	1387.9	1366.5	1365.1
42.5°	5667.1	5571.8	3778.9	1921.7	1504.6	1472.4	1406.7	1371.8	1328.9	1269.9	1257.9
45°	6761.3	6427.4	3957.3	1744.6	1382.6	1434.9	1365.1	1316.9	1249.8	1185.4	1178.7
47.5°	8021.9	7346.0	4044.5	1560.9	1268.6	1379.9	1314.2	1237.7	1153.3	1121.1	1117.1
50°	9561.3	8436.2	4086.0	1382.6	1169.4	1307.5	1240.4	1150.6	1079.5	1072.8	1068.8
52.5°	11314.0	9747.7	4099.4	1236.4	1087.6	1213.6	1180.1	1092.9	1036.6	1042.0	1042.0
55°	13148.5	11102.1	3917.1	1130.5	1012.5	1117.1	1139.8	1070.1	1023.2	1044.6	1052.7
57.5°	14832.8	12302.3	3343.1	1048.7	941.4	1043.3	1125.1	1091.6	1059.4	1146.6	1151.9
60°	16125.5	13011.7	2496.9	974.9	889.1	1017.8	1164.0	1173.4	1181.4	1389.3	1417.4
62.5°	16396.4	12775.7	1716.5	917.2	864.9	1039.3	1235.1	1236.4	1227.0	1371.8	1389.3
65°	15153.3	11283.2	1248.5	885.1	844.8	1078.2	1295.4	1267.2	1205.6	1315.5	1283.3
67.5°	12034.1	8500.6	1039.3	860.9	815.3	1075.5	1359.8	1295.4	1193.5	1288.7	1236.4
70°	7811.3	5140.0	925.3	840.8	780.5	1024.5	1397.3	1292.7	1158.6	1198.9	1137.2
72.5°	3811.1	2298.5	848.9	811.3	744.3	953.5	1396.0	1268.6	1122.4	1119.7	1086.2
75°	1491.2	1052.7	779.1	767.1	682.6	873.0	1358.4	1233.7	1079.5	1036.6	1024.5
77.5°	873.0	751.0	690.6	701.3	608.8	792.5	1303.5	1173.4	1020.5	969.5	956.1
80°	635.6	561.9	588.7	606.1	520.3	712.1	1229.7	1099.6	954.8	980.3	961.5
82.5°	407.7	362.1	477.4	494.8	433.1	630.3	1149.2	1021.8	862.3	783.1	764.4
85°	207.9	229.3	355.4	376.8	333.9	517.6	1051.3	918.6	757.7	651.7	662.5
87.5°	116.7	156.9	226.6	253.4	236.0	398.3	852.9	757.7	618.2	502.9	442.5
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)