

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: P192364

Luminaire Tested: **GAN-AF-06-LED-U-T4W-7050-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192364
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-06-LED-U-T4W-7050-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 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: 28562 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

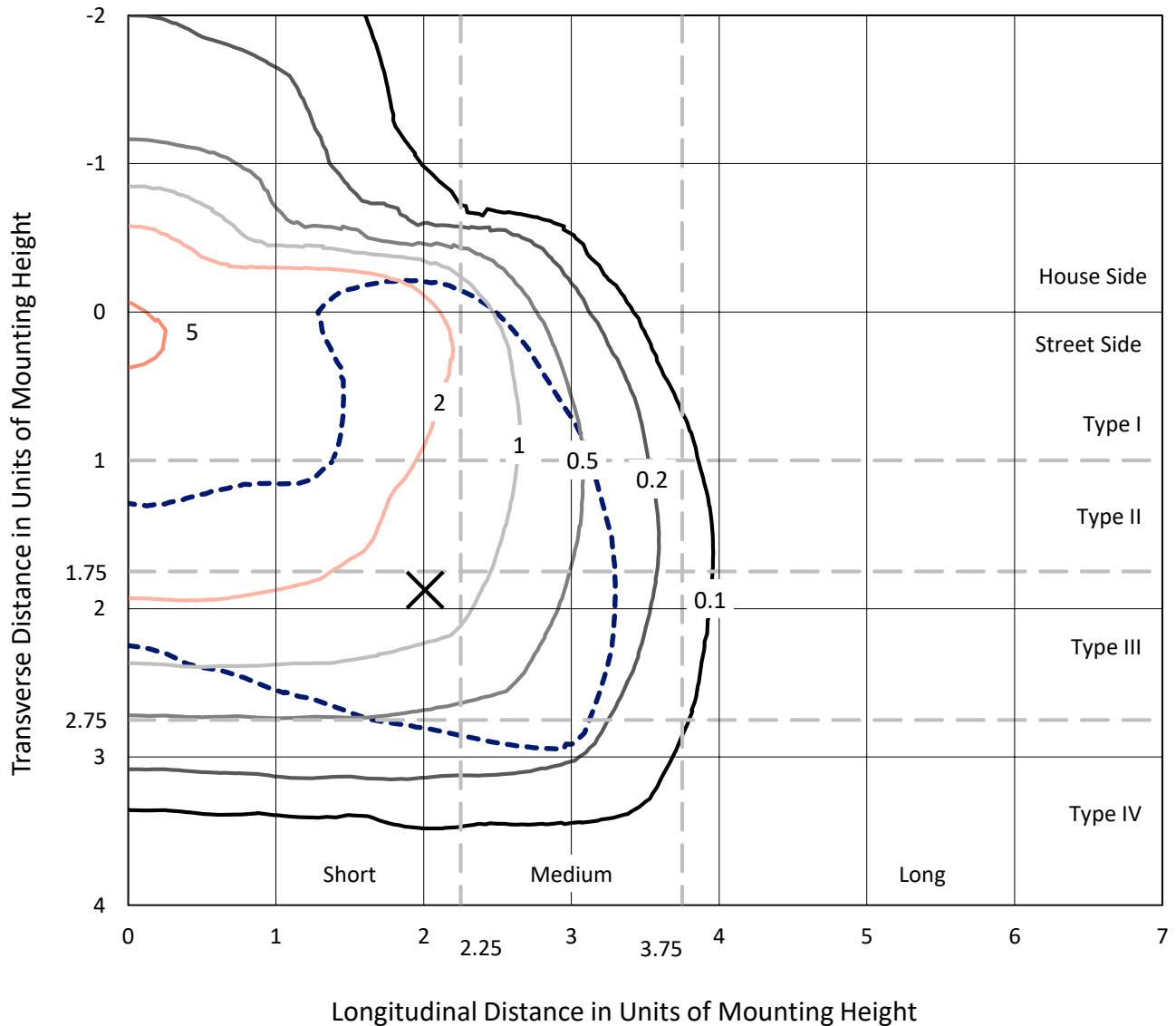


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

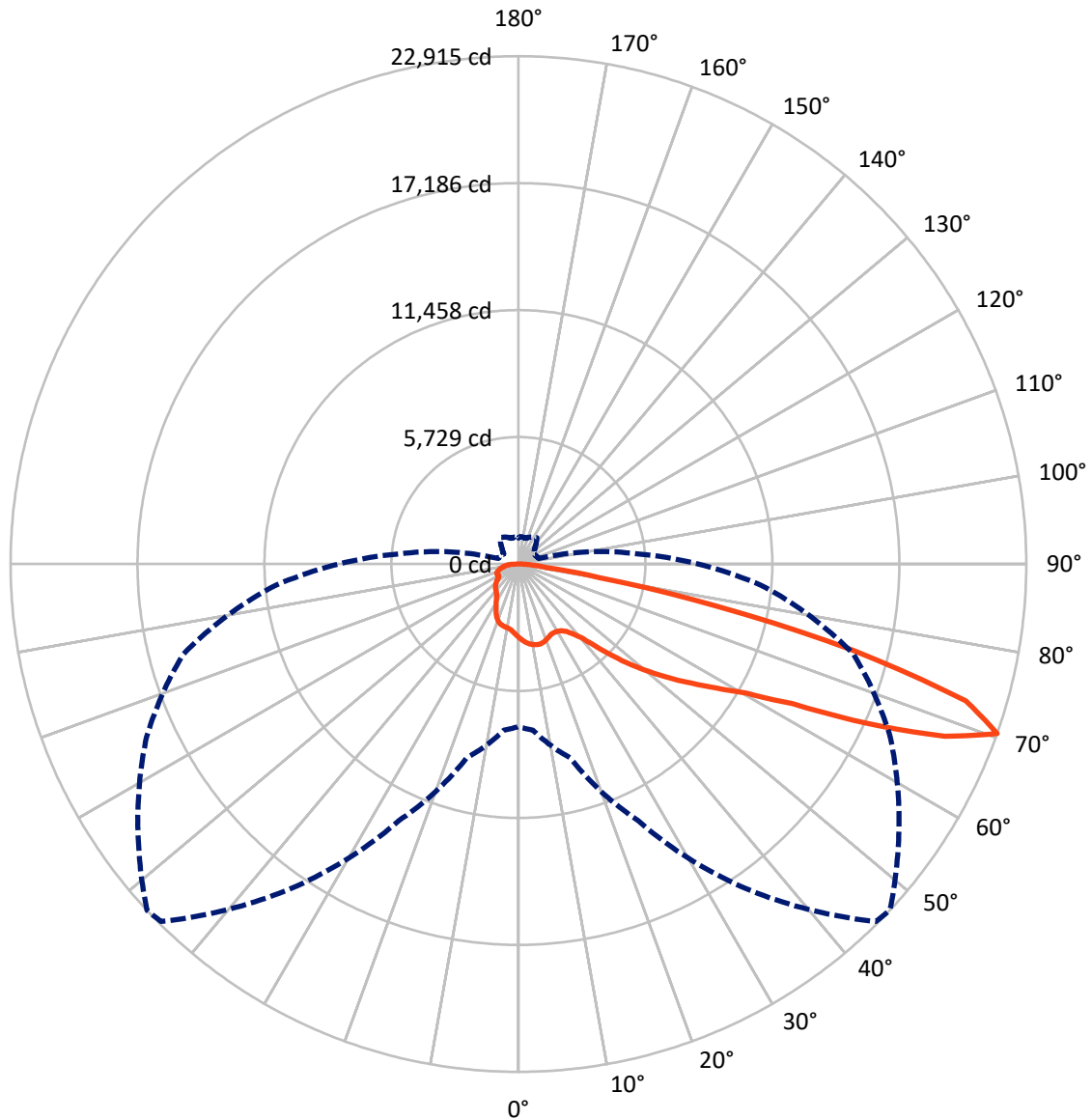


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Semi-Cutoff

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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	5958.6	0.0	5958.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	22603.4	0.0	22603.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	28562.0	0.0	28562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.5	1.1
10°-20°	931.6	3.3
20°-30°	1375.7	4.8
30°-40°	1999.6	7.0
40°-50°	3598.5	12.6
50°-60°	6234.1	21.8
60°-70°	8897.8	31.2
70°-80°	4567.7	16.0
80°-90°	639.5	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°	28562.0	100.0
0°-180°	28562.0	100.0

Coefficient of Utilization



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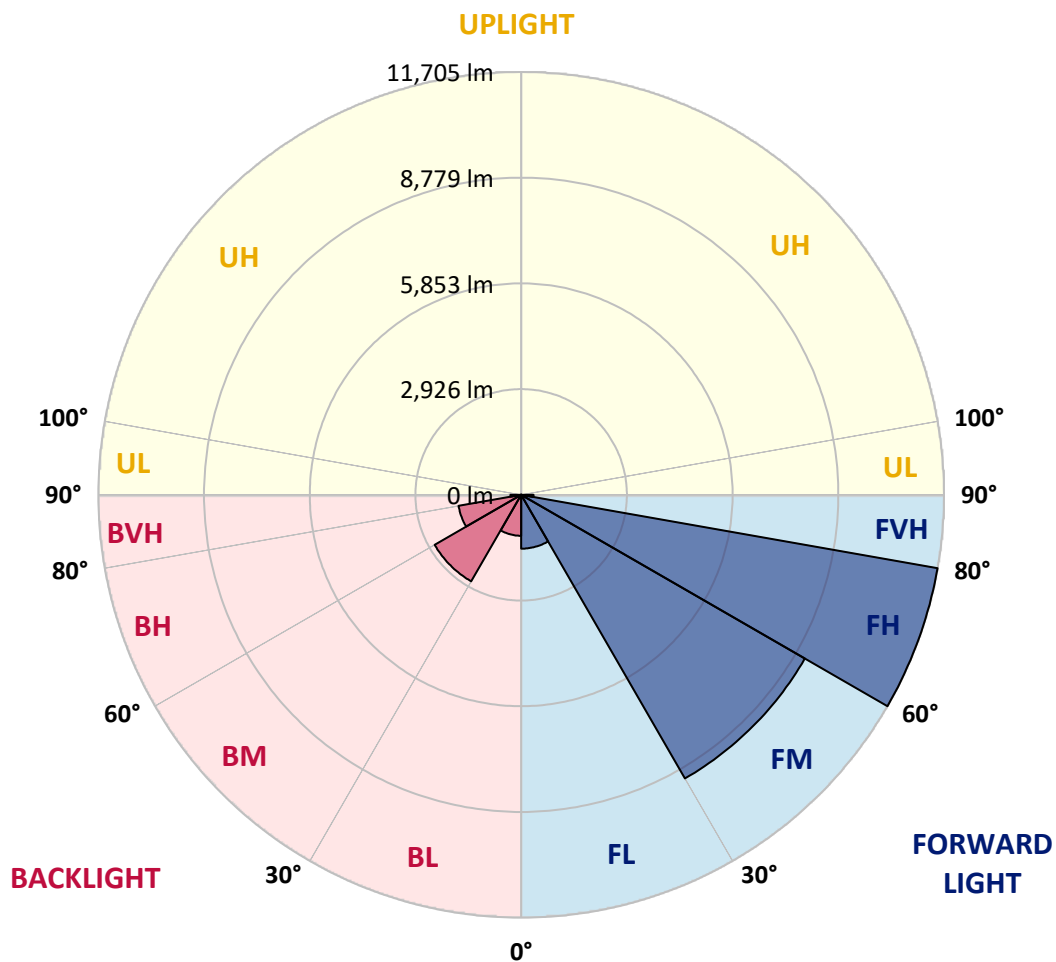
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1490.3	5.2			
FM	(30°-60°)	9066.4	31.7			
FH	(60°-80°)	11705.5	41.0			G4/12000
FVH	(80°-90°)	341.2	1.2			G3/500
BL	(0°-30°)	1134.5	4.0	B3/2500		
BM	(30°-60°)	2765.8	9.7	B3/5000		
BH	(60°-80°)	1760.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	298.2	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°	3314.1	3314.1	3314.1	3314.1	3314.1	3314.1	3314.1	3314.1	3314.1	3314.1	3314.1
2.5°	3508.6	3501.7	3498.9	3493.3	3486.4	3451.6	3444.7	3419.7	3384.9	3348.8	3311.3
5°	3739.3	3737.9	3722.6	3694.8	3650.4	3573.9	3555.9	3494.7	3412.7	3333.5	3254.3
7.5°	3942.2	3929.7	3900.5	3844.9	3767.1	3662.9	3637.8	3553.1	3440.5	3332.1	3225.1
10°	4090.8	4083.9	4020.0	3943.5	3842.1	3726.8	3697.6	3603.1	3479.4	3341.9	3208.5
12.5°	4175.6	4161.7	4088.1	3996.4	3875.5	3762.9	3733.7	3637.8	3498.9	3341.9	3184.9
15°	4170.0	4160.3	4086.7	3986.6	3864.3	3765.7	3739.3	3643.4	3494.7	3328.0	3154.3
17.5°	4058.9	4063.0	4000.5	3901.9	3801.8	3726.8	3703.2	3614.2	3466.9	3300.2	3118.2
20°	3864.3	3883.8	3842.1	3754.6	3699.0	3647.6	3632.3	3557.3	3423.9	3259.9	3079.2
22.5°	3669.8	3687.9	3671.2	3597.5	3589.2	3558.6	3550.3	3496.1	3386.3	3234.9	3055.6
25°	3526.7	3543.4	3540.6	3476.7	3501.7	3500.3	3493.3	3466.9	3378.0	3234.9	3059.8
27.5°	3487.8	3493.3	3487.8	3429.4	3464.2	3491.9	3486.4	3482.2	3403.0	3275.2	3112.6
30°	3621.2	3612.8	3569.8	3451.6	3483.6	3522.5	3517.0	3519.7	3478.0	3380.8	3230.7
32.5°	4153.4	4115.9	3979.7	3647.6	3562.8	3583.7	3586.4	3632.3	3639.2	3543.4	3414.1
35°	4949.6	4907.9	4731.4	4172.8	3808.8	3736.5	3736.5	3806.0	3847.7	3776.8	3699.0
37.5°	5793.0	5747.2	5652.7	4900.9	4325.7	4001.9	3995.0	4043.6	4103.3	4120.0	4139.5
40°	6751.8	6703.2	6729.6	5718.0	5046.9	4461.9	4363.2	4328.5	4489.6	4596.6	4752.3
42.5°	7800.9	7778.7	7788.4	6628.2	5868.1	5149.7	5009.3	4830.1	5024.6	5215.0	5541.5
45°	8772.2	8791.7	8782.0	7602.2	6782.4	5989.0	5840.3	5492.9	5683.3	6009.8	6542.0
47.5°	9622.6	9542.1	9667.1	8666.6	7806.5	6928.3	6744.9	6279.4	6472.5	6875.5	7775.9
50°	10655.1	10644.0	10460.5	10086.8	9044.6	7871.8	7631.4	7092.3	7392.4	7952.4	9330.8
52.5°	11740.3	11538.8	11370.7	11191.5	10357.7	8838.9	8544.4	7902.4	8473.5	9178.0	11226.2
55°	11962.7	11872.3	12080.8	12382.3	11623.6	9843.6	9500.4	8918.1	9690.7	10578.7	13412.0
57.5°	12437.9	12436.5	12867.3	13405.0	12927.0	10909.4	10563.4	10145.1	11059.4	12183.6	15732.5
60°	12758.9	12849.2	13649.6	14693.1	14206.8	12140.5	11822.3	11561.1	12615.7	13977.5	17894.6
62.5°	12927.0	13049.3	14141.5	15215.6	16016.0	14190.1	13871.9	13495.3	14675.1	15945.1	19159.1
65°	12228.1	12468.4	14065.0	15667.2	17600.1	17512.5	17369.4	16708.0	17249.9	17500.0	18702.0
67.5°	10293.8	10539.8	12399.0	15246.2	18731.2	20716.8	20747.4	19617.7	18834.0	17633.4	15724.2
70°	7334.1	7527.2	9065.4	12782.5	17869.6	22810.9	22915.1	20958.6	18518.6	15638.0	10985.8
72.5°	3482.2	3600.3	5056.6	8319.2	14180.4	20900.2	21101.7	19246.7	15746.4	11577.7	5993.1
75°	1279.8	1315.9	1709.1	3539.2	8224.8	15412.9	15650.5	13796.9	10438.3	5763.9	2283.0
77.5°	767.0	790.7	958.8	1493.8	3234.9	8809.8	9161.3	7503.6	4561.9	2145.5	1122.8
80°	536.4	553.0	687.8	929.6	1528.5	3357.2	3669.8	3062.6	1817.5	1357.6	817.1
82.5°	362.7	371.0	483.6	628.1	1015.8	1199.2	1293.7	1361.8	1225.6	1010.2	518.3
85°	237.6	246.0	327.9	414.1	646.1	619.7	633.6	801.8	894.9	686.4	287.6
87.5°	136.2	141.7	197.3	220.9	316.8	262.6	265.4	422.4	572.5	462.7	175.1
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°	3314.1	3314.1	3314.1	3314.1	3314.1	3314.1	3314.1	3314.1	3314.1	3314.1	3314.1
2.5°	3301.6	3283.5	3243.2	3218.2	3194.6	3189.0	3179.3	3177.9	3176.5	3176.5	3172.3
5°	3227.9	3197.4	3134.8	3100.1	3070.9	3068.1	3066.7	3073.7	3076.5	3079.2	3075.1
7.5°	3180.7	3139.0	3061.2	3011.2	2976.4	2968.1	2982.0	3013.9	3034.8	3043.1	3038.9
10°	3151.5	3100.1	3009.8	2955.6	2926.4	2922.2	2940.3	2977.8	3020.9	3037.6	3036.2
12.5°	3118.2	3059.8	2963.9	2906.9	2890.3	2898.6	2922.2	2957.0	3001.4	3027.8	3029.2
15°	3084.8	3016.7	2918.1	2868.0	2861.1	2872.2	2894.4	2920.8	2955.6	2982.0	2984.8
17.5°	3044.5	2973.6	2875.0	2823.6	2818.0	2823.6	2825.0	2838.9	2861.1	2886.1	2893.0
20°	3001.4	2929.2	2826.3	2774.9	2749.9	2727.7	2702.7	2705.5	2712.4	2737.4	2743.0
22.5°	2970.9	2898.6	2788.8	2718.0	2651.3	2584.6	2534.5	2527.6	2530.4	2551.2	2558.2
25°	2973.6	2897.2	2779.1	2656.8	2510.9	2403.9	2337.2	2326.1	2324.7	2340.0	2349.7
27.5°	3027.8	2951.4	2815.2	2594.3	2358.1	2199.7	2128.8	2120.5	2109.3	2113.5	2124.6
30°	3148.7	3077.9	2902.8	2530.4	2192.7	1999.6	1925.9	1917.6	1902.3	1895.3	1903.7
32.5°	3346.0	3287.7	3030.6	2469.2	2027.4	1828.7	1753.6	1735.6	1725.8	1717.5	1724.4
35°	3674.0	3649.0	3201.5	2402.5	1881.5	1696.6	1628.6	1600.8	1586.9	1602.2	1613.3
37.5°	4188.1	4202.0	3425.2	2298.3	1768.9	1609.1	1552.1	1520.2	1499.3	1511.8	1524.3
40°	4916.2	4926.0	3672.6	2151.0	1671.6	1557.7	1496.5	1467.4	1438.2	1416.0	1414.6
42.5°	5872.2	5773.6	3915.8	1991.2	1559.1	1525.7	1457.6	1421.5	1377.0	1315.9	1303.4
45°	7006.1	6660.1	4100.6	1807.8	1432.6	1486.8	1414.6	1364.5	1295.1	1228.4	1221.4
47.5°	8312.3	7612.0	4190.9	1617.4	1314.5	1429.8	1361.8	1282.6	1195.0	1161.7	1157.5
50°	9907.5	8741.7	4234.0	1432.6	1211.7	1354.8	1285.3	1192.2	1118.6	1111.6	1107.5
52.5°	11723.6	10100.7	4247.9	1281.2	1126.9	1257.5	1222.8	1132.5	1074.1	1079.7	1079.7
55°	13624.6	11504.1	4058.9	1171.4	1049.1	1157.5	1181.1	1108.9	1060.2	1082.5	1090.8
57.5°	15369.8	12747.7	3464.2	1086.6	975.5	1081.1	1165.8	1131.1	1097.7	1188.1	1193.6
60°	16709.4	13482.8	2587.3	1010.2	921.3	1054.7	1206.1	1215.9	1224.2	1439.6	1468.8
62.5°	16990.1	13238.3	1778.6	950.5	896.3	1076.9	1279.8	1281.2	1271.4	1421.5	1439.6
65°	15701.9	11691.7	1293.7	917.1	875.4	1117.2	1342.3	1313.1	1249.2	1363.2	1329.8
67.5°	12469.8	8808.4	1076.9	892.1	844.8	1114.4	1409.0	1342.3	1236.7	1335.4	1281.2
70°	8094.1	5326.2	958.8	871.2	808.7	1061.6	1447.9	1339.5	1200.6	1242.3	1178.3
72.5°	3949.1	2381.7	879.6	840.7	771.2	988.0	1446.5	1314.5	1163.1	1160.3	1125.5
75°	1545.2	1090.8	807.3	794.8	707.3	904.6	1407.6	1278.4	1118.6	1074.1	1061.6
77.5°	904.6	778.1	715.6	726.7	630.9	821.2	1350.6	1215.9	1057.4	1004.6	990.8
80°	658.6	582.2	610.0	628.1	539.1	737.9	1274.2	1139.4	989.4	1015.8	996.3
82.5°	422.4	375.2	494.7	512.7	448.8	653.1	1190.8	1058.8	893.5	811.5	792.0
85°	215.4	237.6	368.2	390.5	346.0	536.4	1089.4	951.8	785.1	675.3	686.4
87.5°	120.9	162.6	234.8	262.6	244.6	412.7	883.8	785.1	640.6	521.1	458.6
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)