

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: P318758

Luminaire Tested: **GAN-SA4B-750-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23190 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 171
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: 24 FT

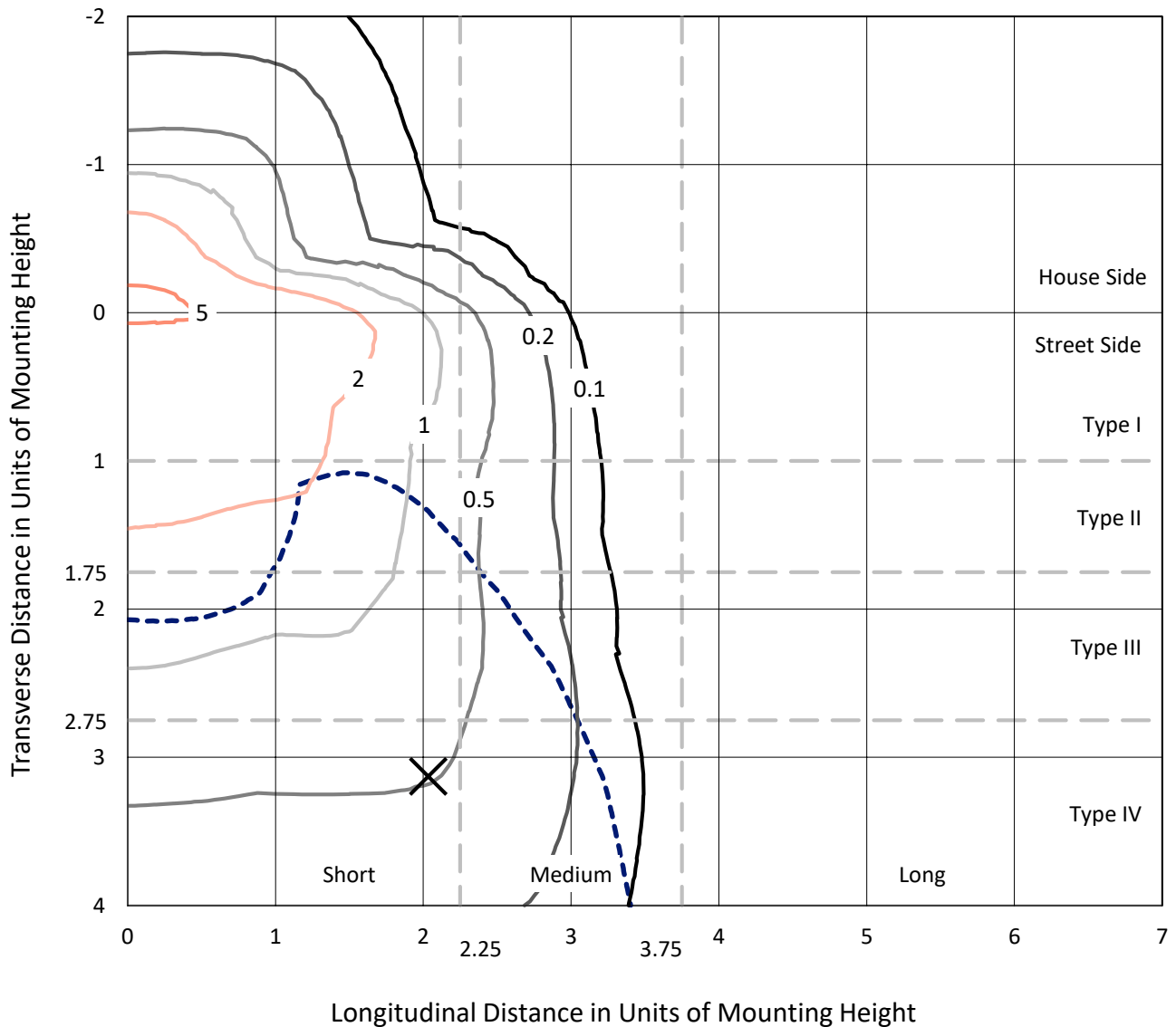




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Iso-Footcandle Lines of Horizontal Illumination

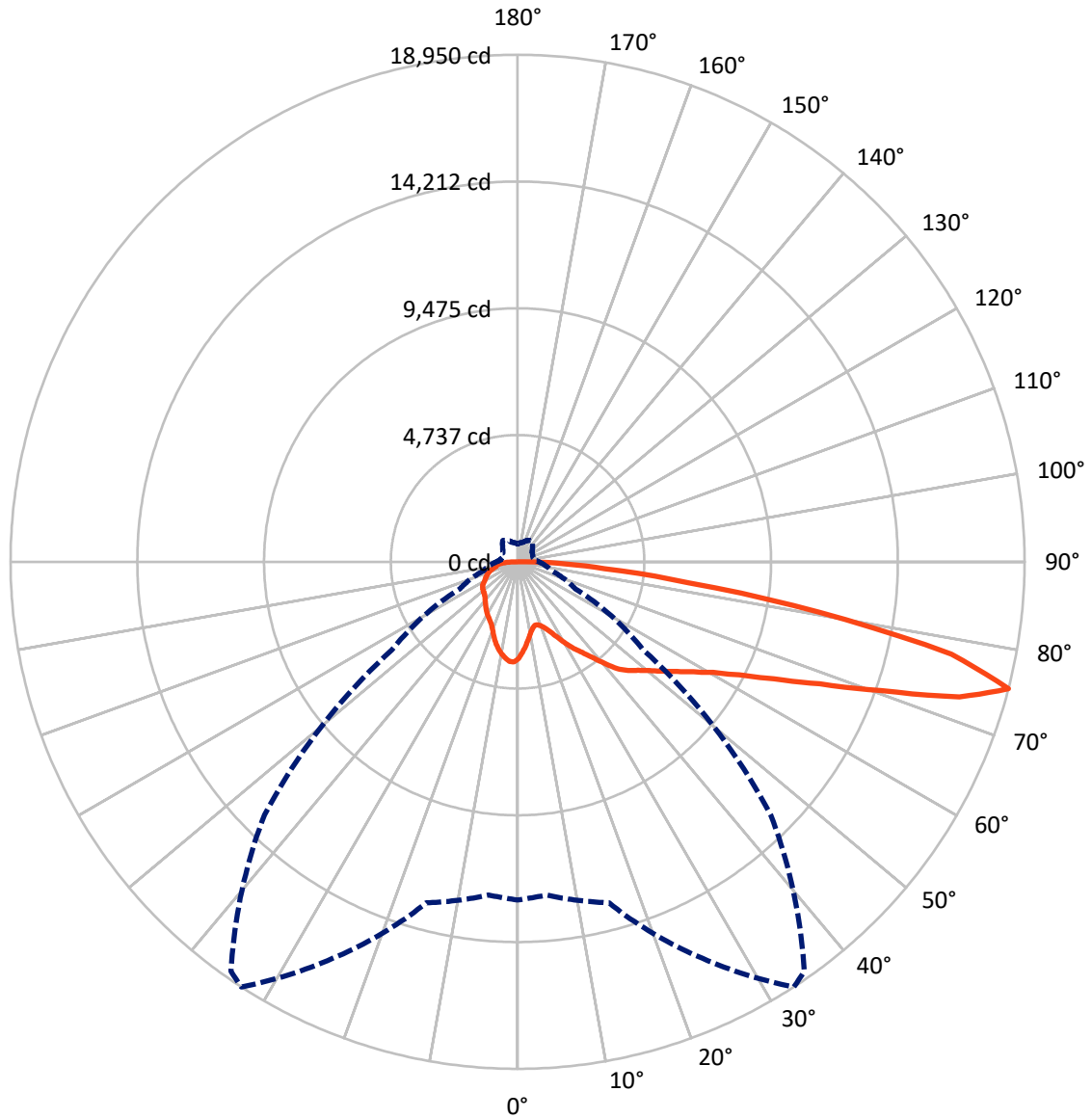
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4979.5	0.0	4979.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	18210.5	0.0	18210.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	23190.0	0.0	23190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.8	1.4
10°-20°	887.8	3.8
20°-30°	1450.0	6.3
30°-40°	2159.4	9.3
40°-50°	3097.1	13.4
50°-60°	4251.9	18.3
60°-70°	5323.2	23.0
70°-80°	4815.6	20.8
80°-90°	877.2	3.8
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°	23190.0	100.0
0°-180°	23190.0	100.0

Coefficient of Utilization

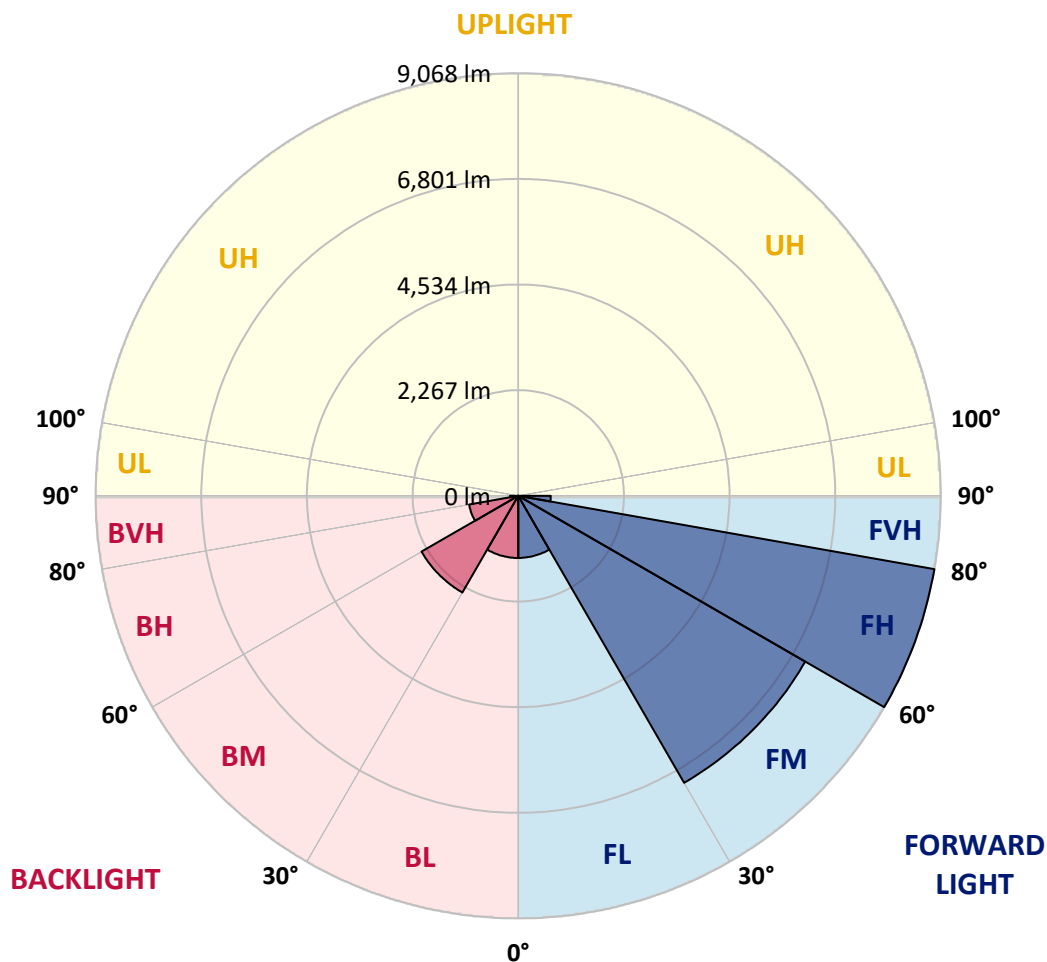


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1331.9	5.7			
FM	(30°-60°)	7111.9	30.7			
FH	(60°-80°)	9068.1	39.1			G4/12000
FVH	(80°-90°)	698.6	3.0			G4/750
BL	(0°-30°)	1333.7	5.8	B3/2500		
BM	(30°-60°)	2396.5	10.3	B2/2500		
BH	(60°-80°)	1070.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	178.6	0.8			G2/225
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°	33°	35°	45°	55°	65°	75°	85°
0°	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7
2.5°	3366.0	3353.2	3377.2	3380.4	3401.2	3409.2	3438.1	3482.9	3519.8	3562.2	3600.7
5°	3060.8	3052.0	3085.6	3109.7	3155.3	3174.5	3242.6	3338.0	3422.9	3519.0	3606.3
7.5°	2770.8	2766.0	2803.7	2858.1	2911.0	2937.4	3055.2	3193.8	3335.5	3491.0	3624.7
10°	2526.5	2524.9	2560.9	2614.6	2692.3	2721.9	2874.1	3056.8	3255.4	3469.3	3656.0
12.5°	2389.5	2395.1	2411.9	2456.8	2528.9	2558.5	2727.6	2942.2	3188.2	3462.1	3701.6
15°	2423.2	2432.0	2403.1	2401.5	2452.8	2476.0	2634.6	2860.5	3140.1	3474.1	3768.1
17.5°	2566.5	2568.1	2492.0	2444.0	2475.2	2487.2	2605.8	2814.1	3112.1	3501.4	3851.4
20°	2768.4	2764.4	2629.8	2549.7	2566.5	2569.8	2646.7	2814.9	3109.7	3548.6	3959.6
22.5°	3036.0	3006.3	2825.3	2716.3	2712.3	2707.5	2751.6	2874.1	3144.9	3625.5	4088.5
25°	3385.2	3357.2	3108.1	2959.1	2927.0	2915.0	2921.4	3000.7	3214.6	3708.0	4232.7
27.5°	3773.7	3724.9	3484.5	3273.9	3207.4	3190.6	3152.1	3179.3	3290.7	3787.3	4404.1
30°	4098.9	4072.5	3862.6	3612.7	3534.2	3510.2	3409.2	3379.6	3400.4	3895.5	4620.4
32.5°	4280.8	4263.2	4135.8	3933.9	3861.0	3827.4	3684.8	3625.5	3576.7	4066.1	4913.6
35°	4501.1	4489.9	4413.0	4266.4	4158.2	4123.0	4012.4	3950.8	3825.0	4300.8	5292.5
37.5°	4781.4	4769.4	4771.0	4652.5	4523.5	4490.7	4417.8	4352.9	4147.0	4609.2	5704.2
40°	5098.6	5075.4	5066.6	5061.0	4979.3	4960.9	4922.4	4834.3	4550.7	4977.7	6110.4
42.5°	5576.1	5493.6	5317.3	5383.8	5464.7	5455.1	5486.4	5359.8	4999.3	5413.5	6506.9
45°	6036.7	5901.3	5596.9	5611.3	5788.3	5842.0	6075.9	5986.2	5485.6	5890.9	6917.0
47.5°	6246.5	6144.0	5885.3	5886.1	6061.5	6172.9	6685.5	6621.4	5996.6	6433.2	7417.7
50°	6481.3	6378.7	6146.4	6233.7	6386.7	6505.3	7274.3	7241.4	6482.9	7026.8	8017.7
52.5°	6737.6	6563.8	6416.4	6572.6	6787.3	6925.0	7863.9	7774.1	6929.0	7624.3	8707.4
55°	6740.8	6693.5	6805.7	6920.2	7241.4	7410.5	8481.5	8244.4	7292.7	8211.5	9268.9
57.5°	7124.5	7047.6	7285.5	7338.4	7758.1	7948.8	9095.9	8653.7	7662.8	8661.7	9571.7
60°	7632.4	7566.7	7761.3	7900.7	8397.4	8652.1	9751.9	9074.2	7953.6	9001.3	9557.3
62.5°	8509.5	8435.0	8432.6	8628.1	9296.9	9593.3	10488.1	9486.8	8068.9	9068.6	9149.5
65°	9793.6	9675.0	9451.5	9544.4	10539.3	10834.9	11310.8	9785.6	7916.7	8708.2	8099.4
67.5°	11043.2	11039.2	10764.4	10955.1	12179.9	12417.0	12248.0	9815.2	7441.7	7452.9	6236.1
70°	12288.8	12304.8	12258.4	12921.7	14396.4	14643.1	13246.1	9417.1	6373.9	5382.2	3736.1
72.5°	13275.7	13271.7	13505.6	15215.8	17272.9	17217.7	14087.2	8210.7	4576.4	2905.4	1785.5
75°	12636.5	12497.1	13194.0	16351.7	18949.5	18679.6	13371.8	5727.5	2375.1	1322.5	961.3
77.5°	8241.9	8374.1	9397.1	13508.0	16575.2	16246.8	9810.4	2672.3	1119.1	867.5	696.9
80°	2984.7	3124.1	4400.1	7651.6	11419.7	11366.0	4831.1	1098.2	757.0	655.3	507.9
82.5°	1026.9	1078.2	1735.9	3398.0	6447.6	6687.9	1817.6	624.0	550.3	464.6	347.7
85°	402.9	461.4	793.8	1634.9	3252.2	3276.3	736.2	373.3	382.9	304.4	190.6
87.5°	153.0	185.8	379.7	759.4	1485.1	1364.2	263.5	177.8	217.9	181.0	90.5
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°	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7
2.5°	3630.3	3647.2	3682.4	3706.4	3732.1	3739.3	3742.5	3748.9	3755.3	3752.9	3753.7
5°	3652.8	3685.6	3742.5	3766.5	3777.7	3764.9	3740.1	3720.1	3705.6	3697.6	3695.2
7.5°	3689.6	3736.1	3797.0	3792.9	3767.3	3710.4	3646.4	3598.3	3558.2	3543.8	3535.8
10°	3738.5	3792.9	3835.4	3789.7	3715.2	3616.7	3520.6	3446.1	3386.0	3362.8	3358.8
12.5°	3801.0	3856.2	3864.2	3767.3	3644.0	3509.4	3378.8	3280.3	3190.6	3161.7	3155.3
15°	3881.9	3933.9	3884.3	3728.1	3555.8	3374.8	3205.8	3072.0	2977.5	2942.2	2929.4
17.5°	3966.8	4016.4	3888.3	3663.2	3440.5	3215.4	3003.1	2866.1	2758.0	2717.1	2712.3
20°	4068.5	4090.9	3871.4	3570.3	3281.9	3008.7	2785.2	2656.3	2598.6	2569.8	2566.5
22.5°	4194.3	4170.2	3833.0	3444.5	3080.8	2770.0	2588.2	2528.1	2513.7	2507.3	2509.7
25°	4327.2	4253.5	3776.1	3280.3	2826.9	2531.3	2444.0	2460.8	2480.0	2477.6	2477.6
27.5°	4473.8	4338.5	3688.8	3062.4	2545.7	2335.8	2346.3	2407.9	2436.8	2436.0	2435.2
30°	4662.1	4434.6	3577.5	2800.5	2283.0	2198.1	2261.3	2336.6	2375.9	2374.3	2375.1
32.5°	4893.6	4540.3	3426.1	2508.1	2093.1	2096.3	2169.2	2243.7	2289.4	2285.4	2286.2
35°	5164.3	4658.9	3221.0	2219.7	1967.4	2015.4	2073.1	2125.2	2168.4	2162.8	2157.2
37.5°	5459.1	4775.0	2948.6	1961.8	1864.8	1940.1	1988.2	1997.0	2017.0	2002.6	1992.2
40°	5739.5	4863.9	2597.8	1750.3	1761.5	1876.0	1907.3	1872.0	1836.0	1831.2	1816.8
42.5°	5983.8	4893.6	2242.9	1581.3	1652.6	1808.8	1828.0	1754.3	1689.4	1659.0	1646.1
45°	6241.7	4904.0	1912.1	1439.5	1547.6	1748.7	1769.5	1671.0	1579.7	1514.0	1492.3
47.5°	6579.0	4979.3	1655.0	1334.5	1467.5	1708.6	1738.3	1604.5	1485.9	1392.2	1372.2
50°	7020.4	5128.3	1445.9	1254.4	1415.4	1682.2	1715.8	1539.6	1409.0	1296.1	1276.1
52.5°	7510.6	5265.3	1276.9	1189.6	1365.0	1635.7	1687.0	1493.1	1336.9	1207.2	1185.5
55°	7853.4	5160.3	1140.7	1122.3	1299.3	1569.2	1646.9	1453.9	1233.6	1120.7	1101.4
57.5°	7919.1	4801.5	1037.4	1052.6	1220.0	1485.9	1585.3	1366.6	1177.5	1083.0	1063.0
60°	7739.7	4301.6	960.5	988.5	1135.1	1381.0	1469.9	1304.9	1123.9	1043.0	1026.1
62.5°	7288.7	3789.7	903.6	930.8	1055.8	1274.5	1397.8	1240.0	1069.4	997.3	980.5
65°	6377.9	3181.7	849.1	879.5	982.1	1182.3	1332.9	1179.9	1015.7	960.5	944.4
67.5°	4814.3	2383.1	797.8	825.1	916.4	1102.2	1262.4	1120.7	963.7	928.4	909.2
70°	2834.9	1492.3	739.4	768.2	847.5	1018.9	1187.1	1055.8	898.8	882.8	857.9
72.5°	1319.3	898.0	672.9	700.9	761.0	907.6	1090.2	970.9	821.9	786.6	753.0
75°	787.4	656.9	594.4	619.2	661.7	789.0	968.5	884.4	749.0	702.5	667.3
77.5°	588.8	502.3	507.9	534.3	568.7	690.5	857.9	816.3	692.9	656.9	632.8
80°	423.8	381.3	414.1	443.0	479.0	628.0	821.9	754.6	626.4	578.4	555.9
82.5°	282.8	274.0	311.6	341.2	376.5	549.5	772.2	660.9	535.1	474.2	424.6
85°	156.2	165.0	209.9	222.7	253.1	386.9	632.8	531.1	402.9	324.4	310.0
87.5°	64.9	76.1	112.9	108.9	134.6	230.7	416.5	320.4	256.3	191.4	149.0
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)