

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: P268937

Luminaire Tested: **GAN-AF-10-LED-U-T2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-T2-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50232.2 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 558
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

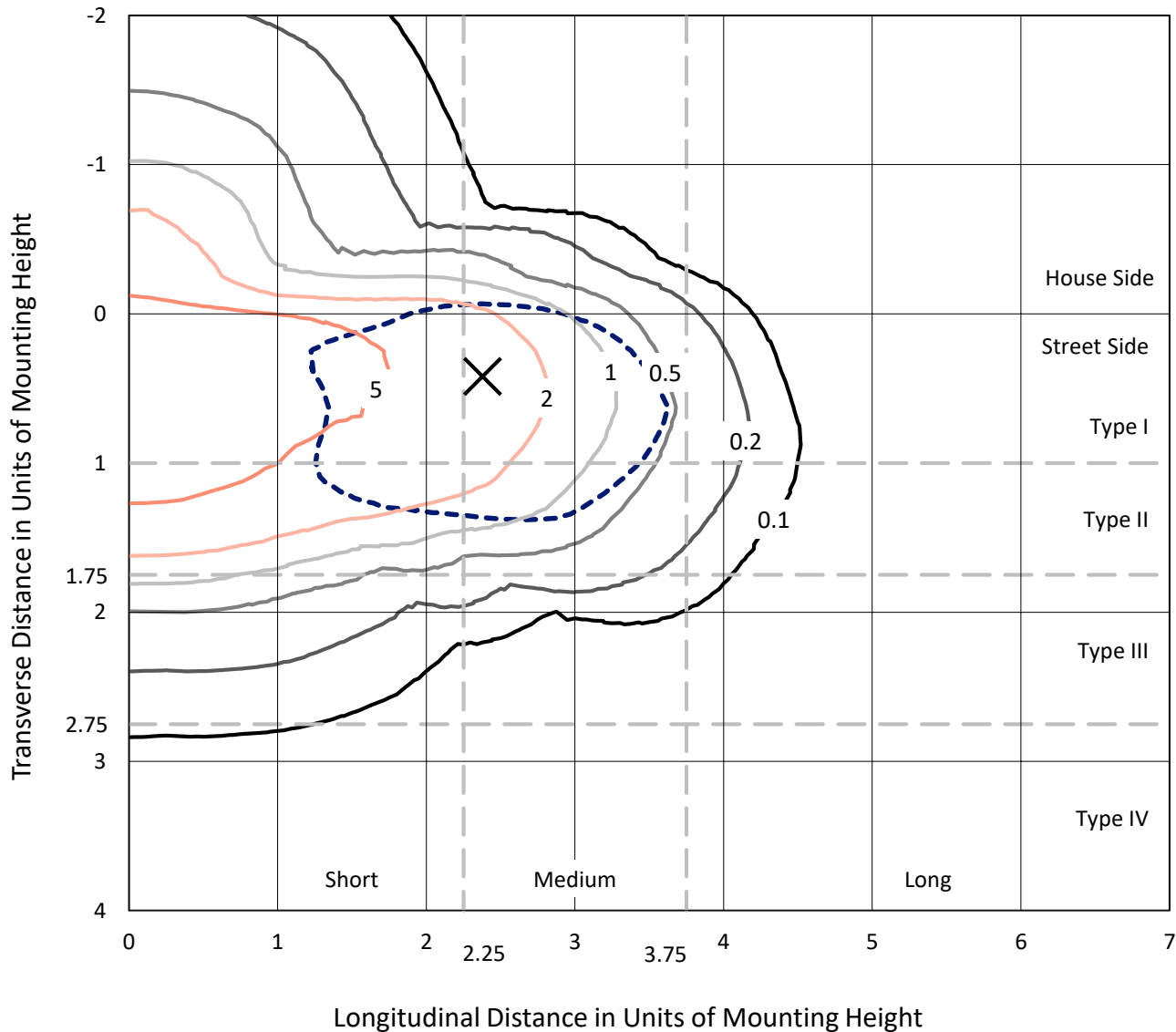


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Iso-Footcandle Lines of Horizontal Illumination

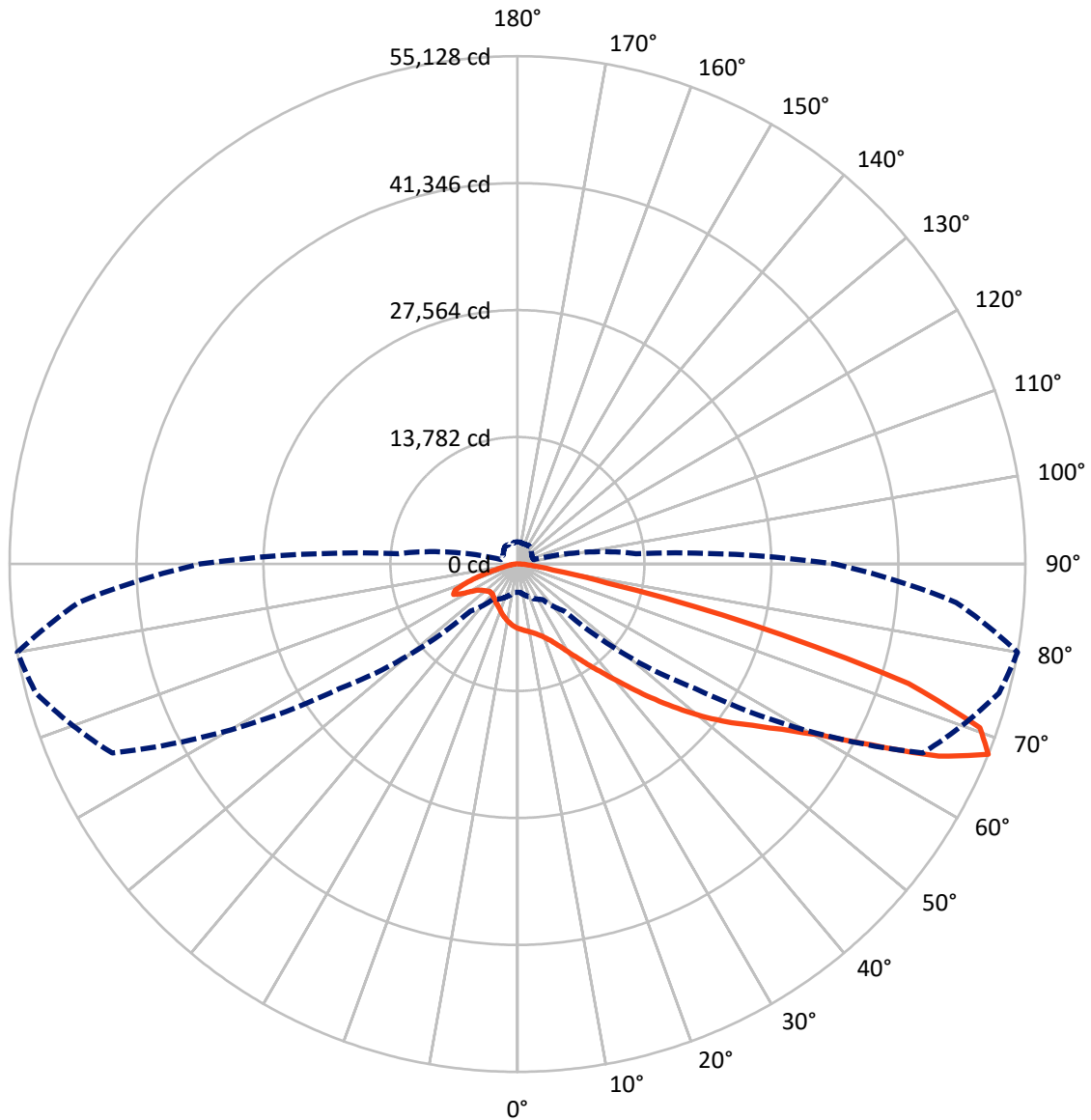
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9250.9	0.0	9250.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	40981.4	0.0	40981.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	50232.2	0.0	50232.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.8	1.3
10°-20°	1854.5	3.7
20°-30°	3069.6	6.1
30°-40°	5021.0	10.0
40°-50°	8106.9	16.1
50°-60°	11704.0	23.3
60°-70°	12916.1	25.7
70°-80°	5953.5	11.9
80°-90°	962.9	1.9
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°	50232.2	100.0
0°-180°	50232.2	100.0



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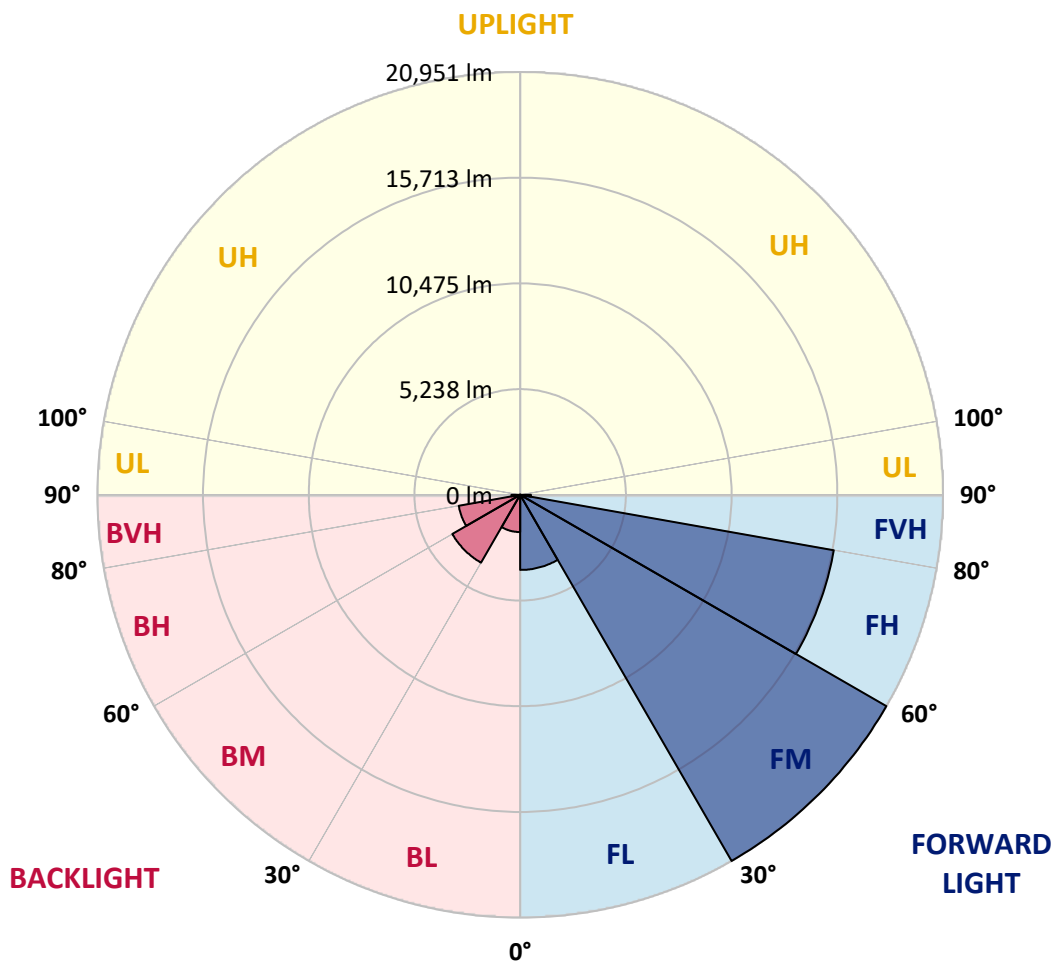
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3722.1	7.4			
FM (30°-60°)	20950.6	41.7			
FH (60°-80°)	15779.2	31.4			G5
FVH (80°-90°)	529.4	1.1			G4/750
BL (0°-30°)	1845.7	3.7	B3/2500		
BM (30°-60°)	3881.3	7.7	B3/5000		
BH (60°-80°)	3090.3	6.2	B4/5000		G4/5000
BVH (80°-90°)	433.5	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	6978.8	6978.8	6978.8	6978.8	6978.8	6978.8	6978.8	6978.8	6978.8	6978.8	6978.8
2.5°	7634.1	7589.5	7597.0	7584.6	7547.5	7483.2	7413.9	7287.8	7156.7	7087.5	7033.1
5°	8272.1	8259.7	8242.4	8202.9	8108.9	7975.3	7809.7	7587.1	7347.1	7221.0	7099.9
7.5°	8749.3	8741.9	8719.7	8695.0	8603.4	8442.7	8192.9	7876.3	7527.6	7354.7	7166.7
10°	8788.9	8801.4	8818.7	8885.3	8897.7	8811.1	8556.4	8173.1	7715.6	7493.1	7253.3
12.5°	8452.6	8479.8	8546.6	8717.2	8897.7	9004.2	8873.0	8484.8	7935.7	7666.1	7362.0
15°	8007.5	8022.4	8103.9	8338.8	8662.9	8991.8	9115.3	8828.5	8220.1	7888.7	7525.2
17.5°	7817.1	7824.4	7881.4	8037.1	8338.8	8808.7	9251.4	9201.9	8568.8	8165.8	7725.6
20°	7720.7	7737.9	7819.6	7972.8	8163.3	8573.9	9271.1	9604.9	8984.3	8512.0	7977.8
22.5°	7995.2	7987.6	8017.4	8094.0	8254.7	8502.1	9256.3	10020.5	9513.5	8957.1	8306.6
25°	8635.5	8662.9	8610.9	8524.3	8576.3	8749.3	9335.5	10470.6	10176.3	9528.3	8736.9
27.5°	9548.2	9521.0	9444.3	9241.6	9135.1	9209.3	9597.6	10955.3	10999.7	10280.2	9305.8
30°	10458.2	10435.9	10361.7	10114.5	9896.8	9835.1	10107.0	11511.7	11981.6	11182.8	10003.2
32.5°	11402.8	11378.1	11308.9	11061.5	10799.5	10656.1	10831.7	12154.6	13138.9	12261.0	10824.1
35°	12567.6	12520.7	12374.7	12031.0	11773.7	11662.5	11744.1	12963.4	14474.3	13537.0	11820.7
37.5°	13663.1	13734.8	13586.4	13111.8	12777.9	12738.2	12829.8	13950.0	15913.6	14964.0	12965.7
40°	14763.6	14776.0	14642.5	14254.1	13910.4	13846.1	14076.1	15147.0	17612.4	16670.2	14358.1
42.5°	15901.2	15926.0	15700.8	15342.3	15090.1	15102.5	15364.5	16549.1	19561.2	18680.9	15960.5
45°	17249.0	17286.1	17038.7	16568.9	16338.9	16801.4	16692.6	18121.9	21697.8	20965.8	17800.5
47.5°	18658.5	18715.4	18527.5	18087.4	17800.5	18435.9	18020.4	19865.4	23997.7	23416.6	19820.8
50°	19427.6	19509.2	19692.3	19660.0	19598.3	19492.0	19501.8	21734.9	26369.2	25968.7	21898.2
52.5°	19014.7	19012.2	19679.9	20491.0	21356.6	21420.9	21307.1	23705.9	28585.1	28463.9	23854.2
55°	17125.3	17253.8	18265.3	19835.7	22199.9	23676.2	24012.6	25963.7	30761.3	30902.2	25840.0
57.5°	13979.8	14086.1	15451.0	17639.7	21062.3	25016.5	27860.5	29245.3	33194.7	33852.4	28483.6
60°	9481.4	9610.0	11056.7	13685.4	18000.7	24269.7	31523.0	35101.4	36107.8	37603.9	32193.1
62.5°	5571.6	5687.8	6867.5	8633.2	12673.9	20800.2	33130.4	43432.7	40734.7	43264.6	37851.3
65°	3835.6	3914.8	4488.4	5373.8	7282.9	14009.3	31137.1	49184.9	47854.4	50278.0	44412.1
67.5°	3086.2	3076.3	3531.3	4134.8	4688.8	7223.5	23545.1	48534.4	54116.0	55127.5	47817.3
70°	2542.3	2532.3	2841.5	3340.9	3746.6	4068.1	12824.8	40957.3	52839.9	53250.4	44681.5
72.5°	2126.7	2136.7	2334.4	2705.4	3073.9	3063.9	5635.8	28812.5	41568.1	44407.2	35618.2
75°	1795.4	1800.4	1931.4	2193.5	2495.2	2468.1	3056.7	15609.4	24163.4	26139.3	19744.1
77.5°	1528.2	1533.2	1617.3	1763.3	1978.3	1968.5	2230.6	6743.8	10079.8	9956.2	6753.6
80°	1362.5	1362.5	1402.2	1429.4	1548.0	1503.6	1654.4	3239.6	4260.9	3934.4	2695.5
82.5°	1068.4	1073.3	1315.6	1305.7	1219.2	1162.2	1162.2	1909.2	2257.8	2087.2	1577.8
85°	601.0	598.5	848.2	1023.8	1073.3	818.5	811.1	1068.4	1229.2	1083.1	764.2
87.5°	257.2	262.1	393.2	455.0	608.3	509.3	502.1	551.5	625.7	541.6	353.7
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°	6978.8	6978.8	6978.8	6978.8	6978.8	6978.8	6978.8	6978.8	6978.8	6978.8	6978.8
2.5°	6981.2	6916.9	6775.9	6600.3	6442.0	6338.3	6244.3	6108.2	6115.7	6021.7	5952.3
5°	6976.2	6842.7	6516.2	6128.0	5754.6	5485.1	5282.3	5099.3	5054.8	4968.2	4916.2
7.5°	6981.2	6763.6	6214.6	5593.8	5131.4	4790.1	4617.0	4520.6	4498.4	4468.7	4471.1
10°	6998.4	6691.8	5883.2	5094.3	4609.7	4384.5	4342.5	4372.2	4406.8	4416.7	4419.2
12.5°	7038.1	6627.5	5519.6	4649.2	4283.2	4213.9	4285.6	4387.1	4453.8	4486.0	4483.5
15°	7127.2	6578.1	5171.0	4300.5	4102.6	4139.7	4273.2	4416.7	4513.2	4557.7	4560.2
17.5°	7223.5	6506.3	4812.4	4033.4	3969.2	4063.0	4228.9	4396.9	4515.6	4565.0	4575.0
20°	7349.7	6417.3	4436.5	3833.1	3842.9	3949.3	4105.2	4273.2	4404.4	4446.4	4466.2
22.5°	7515.3	6321.0	4107.6	3669.8	3699.6	3781.1	3902.3	4048.2	4161.9	4181.8	4199.0
25°	7737.9	6217.0	3845.5	3521.5	3533.8	3580.9	3662.5	3749.0	3828.1	3805.8	3823.1
27.5°	8037.1	6128.0	3650.2	3385.5	3363.3	3373.1	3415.1	3442.3	3484.4	3422.6	3430.0
30°	8388.4	6031.6	3499.3	3266.7	3205.0	3187.6	3197.5	3212.3	3244.6	3160.4	3148.1
32.5°	8796.4	5915.3	3358.4	3162.9	3076.3	3041.8	3046.7	3086.2	3210.0	3158.0	3130.8
35°	9271.1	5784.2	3210.0	3049.1	2989.7	2940.3	2935.4	3059.1	3427.6	3395.4	3370.7
37.5°	9827.5	5653.3	3061.6	2920.6	2925.5	2871.2	2853.8	2994.8	3469.6	3343.4	3326.2
40°	10534.9	5584.0	2935.4	2784.6	2846.4	2839.0	2804.4	2876.1	3192.5	2962.6	2933.0
42.5°	11410.4	5593.8	2841.5	2638.6	2752.3	2831.5	2777.1	2779.6	2893.4	2720.2	2693.1
45°	12490.9	5710.0	2774.7	2522.4	2646.0	2824.1	2767.3	2727.7	2737.6	2646.0	2631.2
47.5°	13752.2	5950.0	2727.7	2426.1	2544.7	2797.0	2764.8	2712.8	2690.7	2641.1	2628.8
50°	15154.3	6298.6	2693.1	2334.4	2453.2	2752.3	2767.3	2698.0	2673.3	2653.6	2646.0
52.5°	16531.8	6696.9	2641.1	2255.4	2381.4	2698.0	2774.7	2683.1	2656.0	2641.1	2633.7
55°	18067.5	7193.8	2562.0	2188.6	2322.1	2628.8	2774.7	2660.9	2631.2	2633.7	2631.2
57.5°	20142.3	7997.6	2468.1	2131.7	2250.4	2544.7	2727.7	2636.2	2599.1	2601.5	2604.0
60°	23384.4	9414.5	2354.3	2074.8	2161.4	2445.7	2663.4	2581.8	2544.7	2554.6	2557.0
62.5°	28152.3	11494.4	2205.9	1990.7	2067.4	2339.5	2574.4	2512.5	2475.4	2500.2	2500.2
65°	33108.1	13329.3	2023.0	1884.5	1968.5	2223.1	2463.1	2426.1	2389.0	2445.7	2443.3
67.5°	34441.0	12918.7	1839.9	1768.1	1869.6	2094.6	2329.6	2309.7	2290.0	2389.0	2383.9
70°	30595.6	10371.7	1671.7	1649.5	1760.8	1956.1	2186.1	2186.1	2173.8	2247.9	2230.6
72.5°	23310.2	7354.7	1510.9	1523.3	1637.2	1805.2	2030.3	2047.6	2027.8	2064.9	2050.1
75°	12478.5	4209.0	1350.2	1384.8	1483.8	1652.0	1857.2	1874.6	1862.1	1859.8	1867.0
77.5°	4147.1	2057.5	1182.1	1236.4	1323.1	1493.7	1676.6	1703.8	1674.3	1669.2	1666.7
80°	1847.4	1293.4	996.6	1068.4	1145.0	1313.1	1486.2	1508.6	1476.4	1520.9	1464.0
82.5°	1187.0	850.8	798.8	878.0	952.2	1132.7	1295.8	1300.7	1271.1	1476.4	1258.7
85°	576.3	526.8	601.0	672.7	736.9	890.3	1073.3	1075.7	1001.5	912.5	880.3
87.5°	286.9	306.6	400.6	465.0	497.0	610.8	781.4	766.7	734.5	667.7	615.8
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)