

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: P317502

Luminaire Tested: **GAN-SA8D-750-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-750-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64782 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

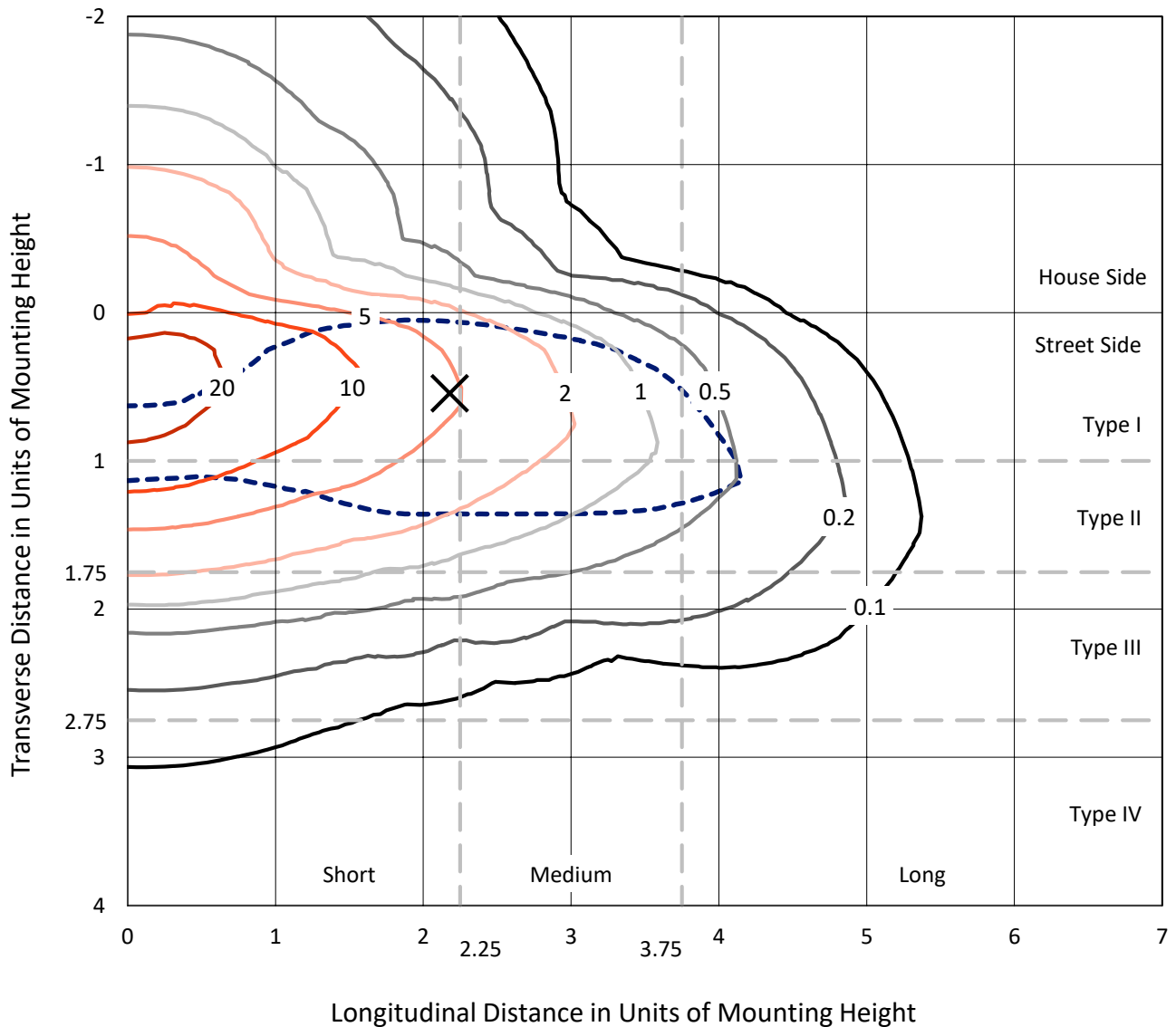
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

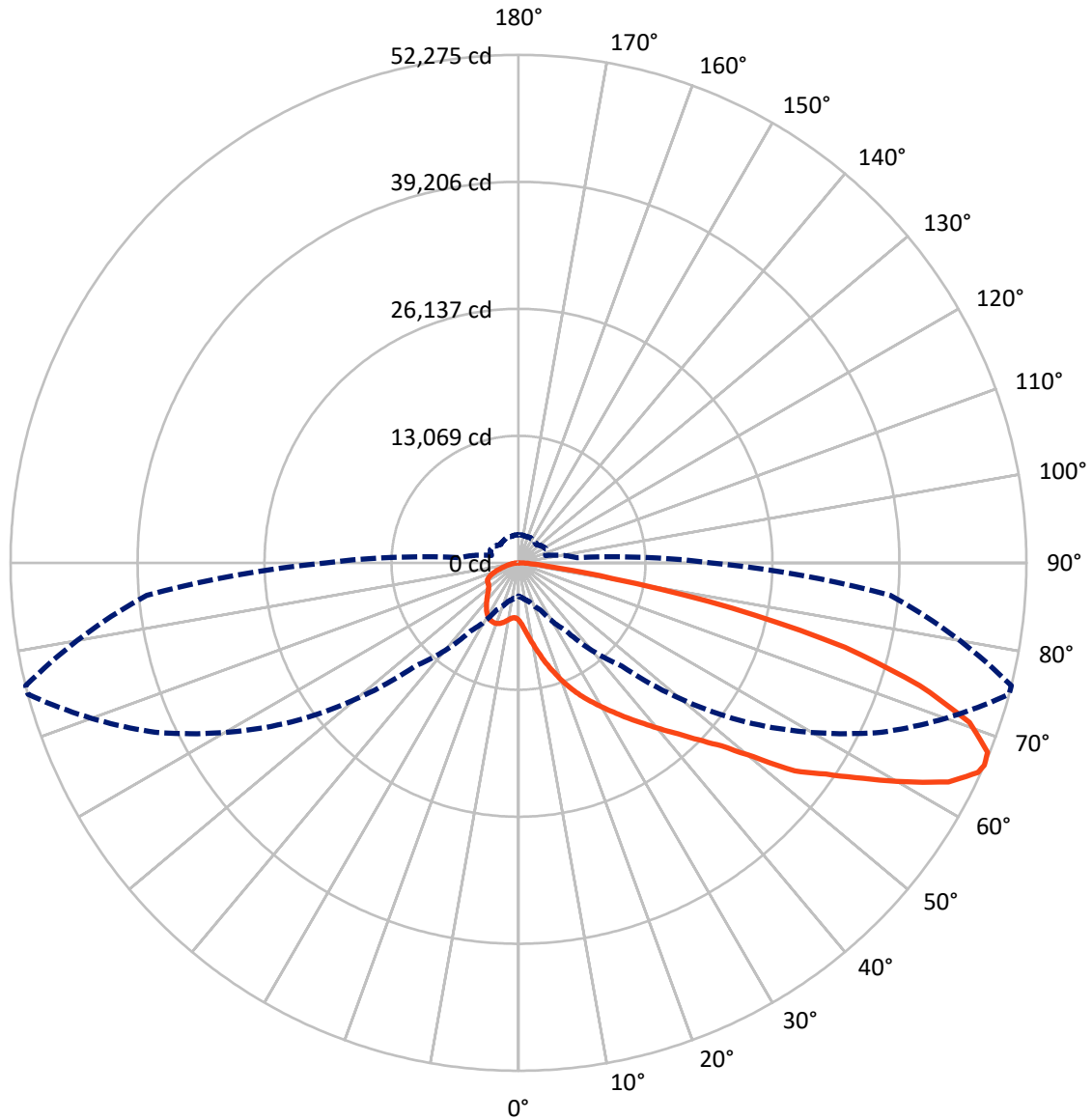
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10900.6	0.0	10900.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	53881.4	0.0	53881.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	64782.0	0.0	64782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.4	1.1
10°-20°	2825.1	4.4
20°-30°	5489.9	8.5
30°-40°	8960.7	13.8
40°-50°	12242.5	18.9
50°-60°	14260.0	22.0
60°-70°	12784.4	19.7
70°-80°	6460.7	10.0
80°-90°	1043.3	1.6
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°	64782.0	100.0
0°-180°	64782.0	100.0

Coefficient of Utilization

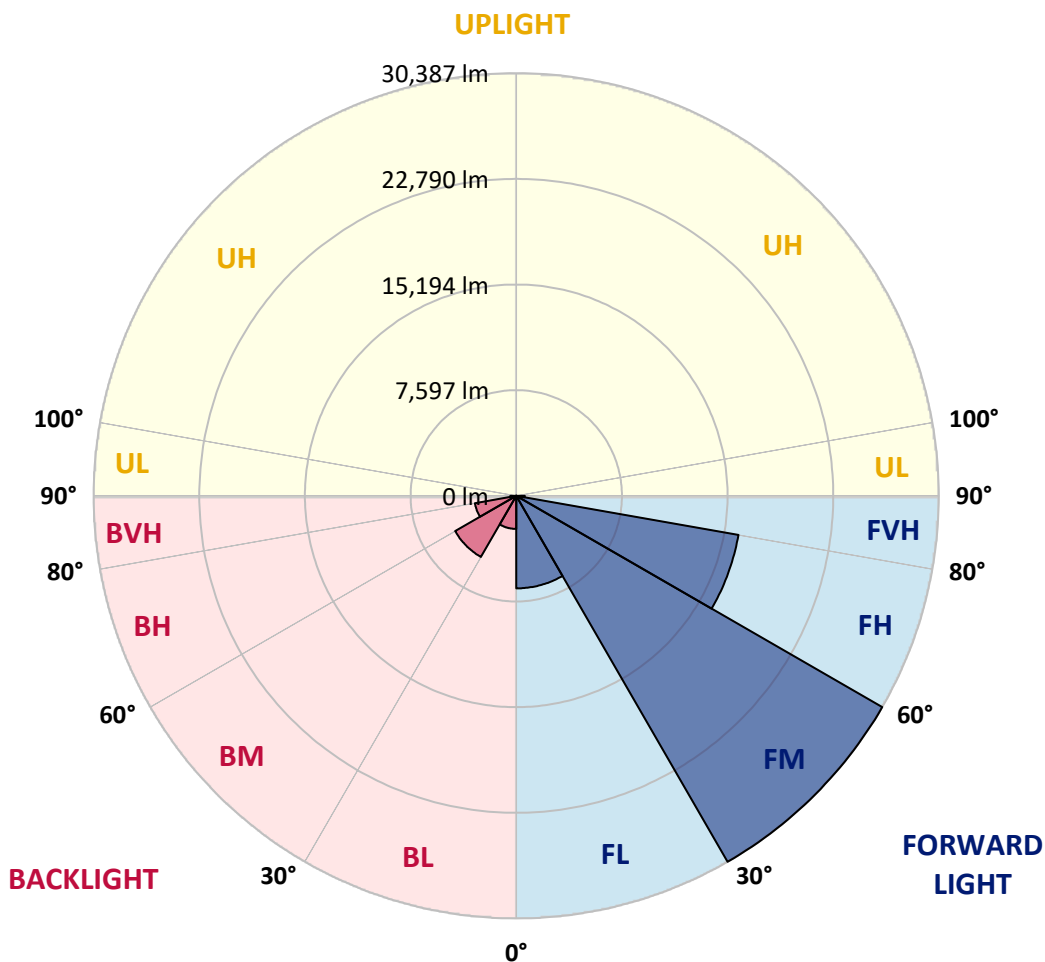


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6652.9	10.3			
FM (30°-60°)	30387.3	46.9			
FH (60°-80°)	16225.1	25.0			G5
FVH (80°-90°)	616.1	1.0			G4/750
BL (0°-30°)	2377.5	3.7	B3/2500		
BM (30°-60°)	5076.0	7.8	B4/8500		
BH (60°-80°)	3020.0	4.7	B4/5000		G4/5000
BVH (80°-90°)	427.2	0.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1
2.5°	7853.6	7734.9	7723.9	7550.1	7510.5	7178.4	6934.3	6679.2	6388.9	6331.7	6103.0
5°	10088.1	10077.1	9925.3	9641.6	9419.5	8852.1	8291.3	7697.5	7046.5	6940.9	6426.3
7.5°	12098.2	12080.6	11964.1	11658.4	11337.3	10640.1	9839.6	8929.1	7873.4	7717.3	6863.9
10°	13624.5	13617.9	13578.3	13354.0	13081.3	12412.7	11528.6	10286.0	8834.5	8621.2	7411.6
12.5°	14803.3	14816.5	14842.9	14763.8	14634.0	14064.4	13158.3	11724.4	9859.4	9648.2	8020.8
15°	15601.7	15641.3	15777.6	15889.8	15958.0	15608.3	14730.8	13195.7	11007.4	10754.5	8695.9
17.5°	16004.1	16048.1	16283.5	16622.1	16934.4	16899.3	16202.1	14598.8	12109.2	11865.1	9421.7
20°	16351.6	16384.6	16648.5	17055.4	17607.4	17851.5	17460.1	15949.2	13316.6	13026.3	10191.5
22.5°	17358.9	17400.7	17479.9	17710.8	18199.0	18647.7	18458.5	17226.9	14422.9	14152.4	10921.6
25°	19303.1	19353.6	19182.1	18986.4	19078.7	19391.0	19426.2	18392.6	15544.5	15238.8	11706.8
27.5°	21645.3	21717.9	21425.4	20921.7	20481.9	20360.9	20319.1	19347.0	16615.5	16261.5	12483.1
30°	23939.1	24064.5	23684.0	23030.8	22223.7	21656.3	21236.2	20281.7	17671.2	17332.5	13215.5
32.5°	26180.2	26129.6	25577.6	24939.8	23994.1	23283.8	22267.7	21284.6	18858.8	18469.5	13943.4
35°	27715.3	27732.9	27220.5	26463.9	25562.2	25016.8	23648.8	22366.7	20070.6	19712.1	14770.4
37.5°	29021.7	28940.3	28359.7	27653.7	26877.4	26644.3	25265.3	23558.7	21383.6	20992.1	15650.1
40°	29457.1	29362.6	28982.1	28474.1	27851.7	27831.9	27048.9	24909.0	22868.1	22481.0	16641.9
42.5°	29193.2	29072.3	28916.1	28777.6	28586.2	28674.2	28724.8	26492.5	24500.0	24066.7	17790.0
45°	28218.9	28036.4	28146.4	28447.7	28863.3	29360.4	30237.9	28245.3	26327.6	25964.7	19138.1
47.5°	26721.2	26556.3	26899.4	27543.8	28674.2	29932.2	31669.6	30180.7	28509.2	28148.6	21058.1
50°	24614.3	24662.7	25153.1	26325.4	28034.2	30196.1	33433.4	32742.9	31680.6	31344.1	23677.4
52.5°	21157.1	21165.9	22547.0	24471.4	26899.4	30059.7	34412.1	36017.6	36011.0	35604.1	26171.4
55°	17946.1	18141.8	19234.9	21792.6	25060.8	29514.3	35096.1	37609.9	38854.6	38377.4	28496.0
57.5°	14809.9	14924.3	15960.2	18528.9	22437.0	28060.6	35797.6	39521.0	42131.6	41830.3	31385.9
60°	11242.7	11418.7	12489.7	14862.7	19080.9	25480.8	35863.6	41515.8	46048.5	45745.0	34612.2
62.5°	7297.2	7600.7	8603.6	10827.0	15021.1	21770.7	34332.9	42819.9	49760.9	49653.1	37475.7
65°	4194.0	4422.7	5119.9	6835.4	10363.0	17112.6	30693.1	42318.5	52045.9	51984.3	38546.7
66°	3426.5	3569.4	4103.9	5342.0	8550.8	15027.7	28577.4	41260.7	52272.4	52274.6	38423.6
67.5°	2740.3	2804.1	3043.8	3824.5	6309.7	11911.3	24796.9	38927.2	51990.9	52067.9	37629.6
70°	2267.5	2300.4	2375.2	2564.4	3444.1	7182.8	17600.8	32863.8	49164.9	49224.2	34530.9
72.5°	2034.3	2054.1	2082.7	2109.1	2430.2	4013.7	10750.1	26290.2	43105.8	43182.8	29809.0
75°	1843.0	1854.0	1849.6	1851.8	2038.7	2557.8	5555.4	19628.6	34854.2	34700.2	22835.1
77.5°	1618.7	1629.7	1607.7	1612.1	1803.4	1966.2	2764.5	13741.1	23521.3	22434.8	12865.8
80°	1368.0	1376.7	1368.0	1383.3	1570.3	1484.5	1607.7	7730.5	10400.4	9837.4	4574.5
82.5°	1033.7	1071.0	1097.4	1159.0	1293.2	1055.7	1075.4	3010.8	3167.0	3015.2	1403.1
85°	453.1	552.0	826.9	886.3	972.1	633.4	706.0	1227.2	1288.8	1249.2	510.2
87.5°	118.8	129.8	409.1	514.6	538.8	285.9	367.3	558.6	589.4	558.6	169.3
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°	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1
2.5°	5982.0	5874.3	5680.7	5509.2	5379.4	5291.5	5203.5	5159.5	5133.1	5106.7	5111.1
5°	6173.4	5955.6	5623.6	5388.2	5256.3	5172.7	5128.7	5111.1	5100.1	5073.7	5073.7
7.5°	6461.5	6153.6	5696.1	5454.2	5350.8	5287.1	5260.7	5251.9	5238.7	5207.9	5212.3
10°	6824.4	6393.3	5847.9	5612.6	5518.0	5447.6	5410.2	5397.0	5372.8	5337.6	5342.0
12.5°	7251.0	6690.2	6048.0	5801.7	5687.3	5592.8	5531.2	5493.8	5452.0	5405.8	5408.0
15°	7717.3	7013.5	6263.5	5971.0	5814.9	5682.9	5584.0	5520.2	5454.2	5397.0	5394.8
17.5°	8190.1	7325.8	6428.5	6063.4	5852.3	5678.5	5544.4	5445.4	5364.0	5293.7	5287.1
20°	8700.3	7607.3	6520.9	6054.6	5781.9	5575.2	5397.0	5273.9	5183.7	5113.3	5102.3
22.5°	9219.4	7871.2	6536.3	5964.4	5625.8	5372.8	5185.9	5049.5	4957.2	4884.6	4858.2
25°	9694.4	8075.7	6472.5	5790.7	5408.0	5135.3	4952.8	4814.2	4739.4	4653.7	4627.3
27.5°	10127.7	8218.7	6344.9	5568.6	5163.9	4895.6	4724.0	4605.3	4523.9	4457.9	4435.9
30°	10516.9	8295.7	6136.0	5304.7	4913.2	4669.1	4523.9	4442.5	4372.2	4288.6	4273.2
32.5°	10886.4	8295.7	5867.7	5016.6	4664.7	4468.9	4383.2	4332.6	4253.4	4172.0	4150.0
35°	11255.9	8245.1	5551.0	4715.3	4435.9	4326.0	4321.6	4262.2	4141.2	4031.3	4002.7
37.5°	11645.2	8141.7	5194.7	4433.7	4249.0	4262.2	4299.6	4167.6	3996.1	3839.9	3798.2
40°	12085.0	7998.8	4825.2	4189.6	4092.9	4233.6	4240.2	4031.3	3697.0	3554.0	3516.6
42.5°	12601.9	7855.8	4482.1	3974.1	3969.7	4147.8	4128.0	3736.6	3536.4	3463.9	3444.1
45°	13281.4	7774.4	4156.6	3769.6	3872.9	4009.3	3936.7	3573.8	3490.3	3448.5	3430.9
47.5°	14352.5	7816.2	3857.5	3606.8	3776.2	3870.7	3580.4	3507.8	3448.5	3397.9	3380.3
50°	15694.0	7792.0	3615.6	3494.7	3666.2	3725.6	3419.9	3422.1	3391.3	3334.1	3307.7
52.5°	16703.5	7602.9	3459.5	3430.9	3569.4	3468.3	3318.7	3338.5	3323.1	3239.5	3210.9
55°	17677.8	7440.2	3380.3	3406.7	3499.1	3147.2	3199.9	3248.3	3232.9	3151.6	3138.4
57.5°	18889.6	7409.4	3331.9	3413.3	3439.7	2986.6	3085.6	3149.4	3138.4	3103.2	3096.6
60°	20374.1	7418.2	3287.9	3424.3	3373.7	2867.9	2977.8	3059.2	3065.8	3059.2	3054.8
62.5°	21190.0	7178.4	3178.0	3393.5	3257.1	2764.5	2865.7	2984.4	2986.6	2999.8	2997.6
65°	20497.3	6461.5	2973.4	3285.7	3061.4	2678.7	2768.9	2898.6	2865.7	2925.0	2925.0
66°	19824.3	6048.0	2872.3	3215.3	2977.8	2645.7	2738.1	2854.7	2812.9	2894.2	2894.2
67.5°	18449.7	5350.8	2689.7	3065.8	2859.1	2599.5	2702.9	2782.1	2724.9	2845.9	2837.1
70°	15938.2	4139.0	2322.4	2727.1	2663.3	2531.4	2654.5	2636.9	2553.4	2738.1	2702.9
72.5°	13437.6	3145.0	1865.0	2282.9	2366.4	2445.6	2586.4	2452.2	2346.6	2476.4	2399.4
75°	10426.8	2364.2	1473.5	1774.8	1999.1	2311.4	2505.0	2238.9	2087.1	2073.9	2032.1
77.5°	5636.7	1623.1	1167.8	1354.8	1587.9	2144.3	2450.0	2010.1	1781.4	1728.6	1695.6
80°	2232.3	1055.7	848.9	1027.1	1110.6	1902.4	2318.0	1744.0	1469.1	1416.3	1365.8
82.5°	921.5	624.6	547.6	688.4	723.6	1627.5	2080.5	1429.5	1134.8	1570.3	1667.1
85°	395.9	343.1	325.5	356.3	409.1	1141.4	1656.1	1090.8	1225.0	1093.0	868.7
87.5°	118.8	145.2	138.6	136.4	149.6	272.7	881.9	607.0	899.5	340.9	255.1
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)