

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: P321012

Luminaire Tested: **GAN-SA8C-750-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-750-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58156 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

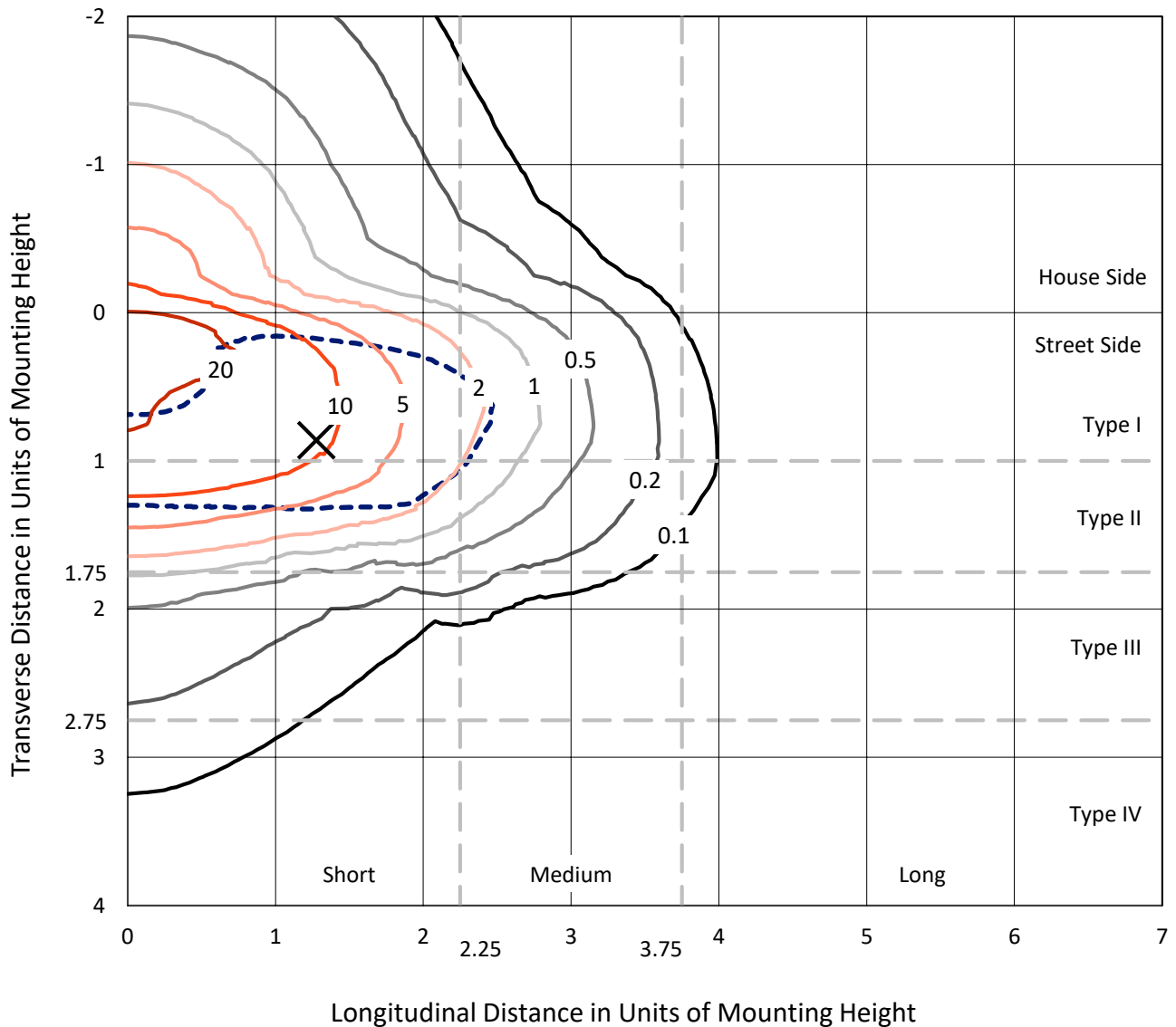
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

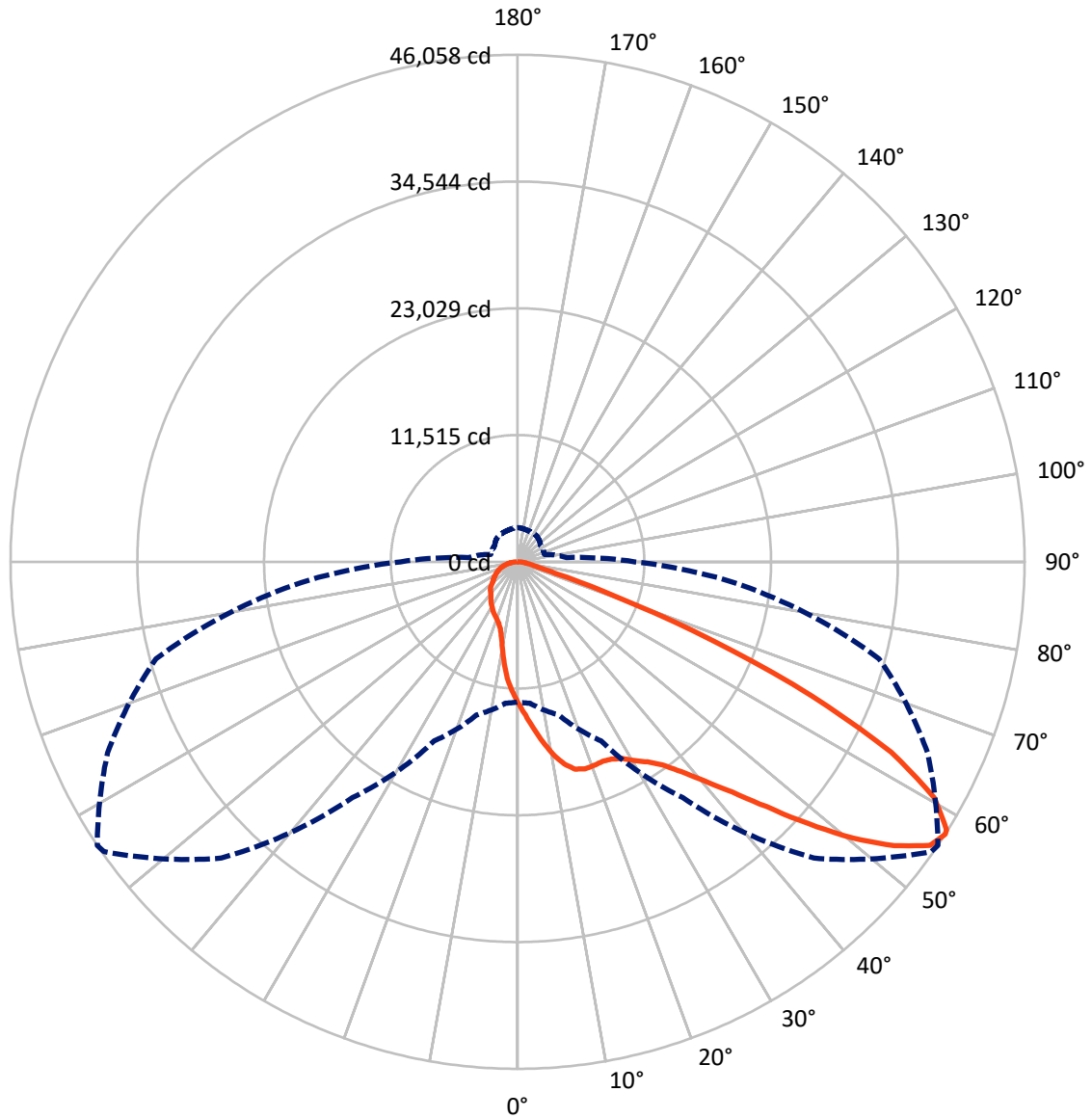
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10024.9	0.0	10024.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	48131.2	0.0	48131.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	58156.0	0.0	58156.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1232.2	2.1
10°-20°	3483.7	6.0
20°-30°	5674.2	9.8
30°-40°	8482.3	14.6
40°-50°	12865.9	22.1
50°-60°	14420.4	24.8
60°-70°	8517.3	14.6
70°-80°	2790.6	4.8
80°-90°	689.4	1.2
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°	58156.0	100.0
0°-180°	58156.0	100.0

Coefficient of Utilization

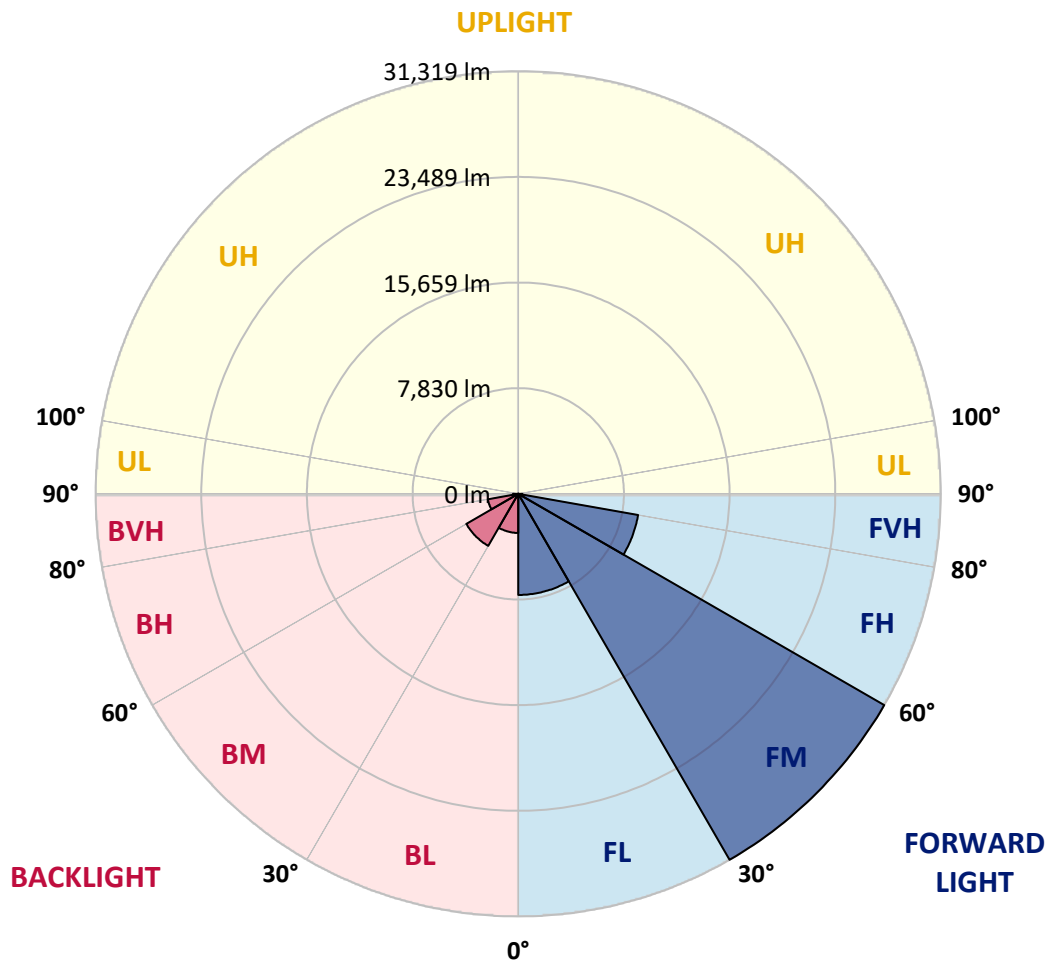


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7491.4	12.9			
FM (30°-60°)	31318.9	53.9			
FH (60°-80°)	9017.3	15.5			G4/12000
FVH (80°-90°)	303.6	0.5			G3/500
BL (0°-30°)	2898.7	5.0	B4/5000		
BM (30°-60°)	4449.7	7.7	B3/5000		
BH (60°-80°)	2290.6	3.9	B3/2500		G3/2500
BVH (80°-90°)	385.9	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	12899.1	12899.1	12899.1	12899.1	12899.1	12899.1	12899.1	12899.1	12899.1	12899.1	12899.1
2.5°	14811.7	14947.6	14887.7	14679.8	14519.9	14294.1	14042.3	13966.3	13700.5	13402.7	13045.0
5°	17156.1	17088.1	16990.2	16666.4	16324.7	15927.0	15295.4	15195.5	14603.9	13930.3	13218.8
7.5°	18491.2	18485.2	18427.2	18237.4	17925.6	17405.9	16644.5	16526.5	15633.2	14549.9	13446.7
10°	18297.3	18283.3	18379.3	18577.1	18671.1	18563.1	17921.6	17803.7	16706.4	15235.4	13710.5
12.5°	17196.1	17204.1	17358.0	17773.7	18339.3	19018.8	18914.9	18856.9	17819.6	16010.9	14030.3
15°	16338.7	16356.7	16478.6	16840.3	17507.9	18741.0	19518.5	19538.4	18896.9	16866.3	14404.0
17.5°	15962.9	16000.9	16056.9	16310.7	16922.3	18187.4	19662.4	19770.3	19840.2	17753.7	14763.8
20°	16082.8	16118.8	16134.8	16296.7	16798.3	17851.6	19562.4	19756.3	20563.7	18589.1	15123.5
22.5°	16620.5	16642.5	16652.5	16694.4	17084.2	17947.6	19496.5	19700.3	21087.4	19338.6	15395.3
25°	17511.9	17495.9	17431.9	17377.9	17639.8	18327.3	19648.4	19842.2	21513.1	20018.1	15573.2
27.5°	18579.1	18559.1	18435.2	18287.3	18437.2	18918.9	20086.1	20240.0	21894.8	20653.7	15663.1
30°	19860.2	19808.3	19574.4	19398.5	19456.5	19806.3	20807.6	20947.5	22484.4	21375.2	15751.1
32.5°	21341.2	21285.2	20947.5	20655.7	20655.7	20947.5	21551.1	21667.0	22984.1	22190.6	15893.0
35°	23195.9	23126.0	22686.3	22196.6	22058.7	22206.6	22564.4	22646.3	23883.4	23217.9	16150.8
37.5°	25382.4	25288.5	24718.9	24063.3	23761.5	23753.5	24011.3	24179.2	25320.4	24567.0	16588.5
40°	27574.9	27508.9	27011.3	26495.6	25904.0	25714.2	26111.9	26163.9	27199.1	26241.8	17148.1
42.5°	29269.7	29257.7	29165.8	29233.7	28628.1	28244.4	28556.2	28598.2	29493.5	28054.5	17743.7
45°	30165.1	30185.1	30630.8	31618.1	31841.9	31562.1	31716.0	31728.0	32115.7	29883.3	18289.3
47.5°	29447.6	29551.5	30678.7	32887.2	34719.9	35649.3	35393.5	35541.3	34658.0	31454.2	18717.0
50°	26651.5	26779.4	28698.1	32321.6	36063.0	39604.5	39470.6	39436.6	36708.5	32605.4	18948.9
52.5°	23187.9	23287.8	24870.8	29381.6	35077.7	41791.0	43020.2	42844.3	38531.3	33466.8	18992.8
55°	17913.6	18069.5	19586.4	23513.7	31092.4	40955.6	45630.4	45472.5	40192.1	33918.5	18940.9
57°	12735.2	12899.1	14406.0	17945.6	26155.9	38063.6	45890.2	46058.1	41089.5	33994.4	18998.8
57.5°	11364.1	11532.0	13025.0	16462.6	24616.9	37018.3	45666.3	45946.1	41251.4	33982.4	19030.8
60°	5722.0	5786.0	6737.3	9189.6	15561.2	29927.2	42746.4	43467.9	41397.3	33394.8	19168.7
62.5°	3557.5	3511.6	3481.6	4233.1	7570.7	19846.2	36720.5	38109.6	38605.2	31971.8	18834.9
65°	3127.8	3041.9	2712.1	2652.2	3343.7	9639.3	27652.8	29381.6	32639.4	29729.4	18039.5
67.5°	2938.0	2854.0	2482.3	2258.4	2260.4	3821.3	17168.1	19114.7	25426.4	25938.0	16162.8
70°	2742.1	2666.2	2318.4	2054.6	1924.7	2116.5	7898.5	9375.5	16574.5	20387.9	13508.6
72.5°	2490.3	2438.3	2108.5	1836.7	1698.8	1584.9	3023.9	3571.5	9595.3	13692.5	9381.5
75°	2226.5	2178.5	1896.7	1636.9	1469.0	1247.1	1702.8	1834.7	4874.6	7005.1	4618.8
77.5°	1936.7	1908.7	1686.8	1447.0	1313.1	1033.3	1205.2	1269.1	2090.6	3003.9	2316.4
80°	1540.9	1594.9	1475.0	1289.1	1165.2	827.4	853.4	895.4	1217.2	1467.0	1315.1
82.5°	1003.3	1097.2	1155.2	1047.3	959.3	651.5	613.6	631.6	793.4	895.4	571.6
85°	417.7	469.7	759.5	685.5	637.6	475.7	411.7	419.7	491.7	509.6	233.8
87.5°	185.9	197.9	333.8	313.8	269.8	163.9	175.9	191.9	261.8	247.8	89.9
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°	12899.1	12899.1	12899.1	12899.1	12899.1	12899.1	12899.1	12899.1	12899.1	12899.1	12899.1
2.5°	12911.0	12743.2	12455.4	12137.6	11877.8	11669.9	11460.1	11316.2	11148.3	11058.3	11012.4
5°	12921.0	12591.3	11985.7	11364.1	10808.5	10300.9	9817.2	9445.4	9097.7	8909.8	8857.9
7.5°	12963.0	12467.4	11488.0	10464.7	9477.4	8576.1	7880.5	7444.8	7131.1	6991.2	6951.2
10°	12997.0	12321.5	10872.5	9357.5	8014.4	7101.1	6561.4	6317.6	6209.7	6191.7	6173.7
12.5°	13076.9	12171.6	10224.9	8202.3	6877.2	6245.7	6057.8	6041.8	6071.8	6115.8	6115.8
15°	13202.8	12023.7	9485.4	7211.0	6153.7	5931.9	5969.9	6057.8	6139.7	6207.7	6217.7
17.5°	13294.8	11841.8	8690.0	6417.5	5768.0	5828.0	5963.9	6087.8	6171.7	6237.7	6243.7
20°	13360.7	11560.0	7840.6	5812.0	5546.2	5732.0	5901.9	6011.8	6069.8	6135.7	6145.7
22.5°	13326.8	11182.2	7087.1	5378.3	5366.3	5592.1	5754.0	5885.9	5841.9	5778.0	5820.0
25°	13162.9	10662.6	6311.6	5054.5	5176.4	5404.3	5604.1	5516.2	5368.3	5340.3	5356.3
27.5°	12871.1	9999.1	5594.1	4754.7	4956.6	5230.4	5218.4	5130.4	5078.5	5042.5	5064.5
30°	12557.3	9279.6	4966.6	4492.9	4712.7	4938.6	4892.6	4890.6	4838.6	4780.7	4808.7
32.5°	12247.5	8556.1	4468.9	4277.0	4528.9	4558.8	4658.8	4688.7	4586.8	4464.9	4456.9
35°	11977.7	7872.5	4091.2	4081.2	4307.0	4311.0	4456.9	4414.9	4161.1	4035.2	4035.2
37.5°	11775.8	7191.0	3803.4	3905.3	4015.2	4119.1	4193.1	4019.2	3977.2	3907.3	3905.3
40°	11687.9	6591.4	3623.5	3771.4	3809.4	3941.3	3751.4	3819.4	3839.3	3803.4	3803.4
42.5°	11596.0	6069.8	3467.6	3669.5	3663.5	3645.5	3549.5	3637.5	3717.4	3719.4	3713.4
45°	11504.0	5620.1	3329.7	3451.6	3535.5	3341.7	3359.7	3453.6	3565.5	3605.5	3605.5
47.5°	11402.1	5264.3	3203.8	3221.8	3351.7	3221.8	3207.8	3279.7	3411.6	3475.6	3489.6
50°	11178.2	4944.6	3059.9	3019.9	3055.9	3099.9	3111.8	3145.8	3291.7	3393.6	3417.6
52.5°	10868.5	4658.8	2876.0	2834.0	2834.0	2999.9	3055.9	3065.9	3189.8	3311.7	3335.7
55°	10610.6	4476.9	2686.1	2678.1	2670.1	2894.0	2989.9	3005.9	3091.9	3187.8	3199.8
57°	10628.6	4462.9	2540.2	2548.2	2546.2	2786.1	2928.0	2961.9	3005.9	3087.9	3101.8
57.5°	10638.6	4472.9	2508.3	2512.3	2510.3	2756.1	2910.0	2948.0	2981.9	3067.9	3081.9
60°	10788.5	4498.9	2378.4	2334.4	2344.4	2596.2	2808.1	2856.0	2878.0	2991.9	3009.9
62.5°	10566.7	4383.0	2274.4	2168.5	2168.5	2428.3	2666.2	2742.1	2776.1	2930.0	2959.9
65°	9923.1	4057.2	2152.5	1980.6	2000.6	2260.4	2496.3	2620.2	2672.1	2864.0	2896.0
67.5°	8929.8	3679.4	2022.6	1812.7	1832.7	2084.6	2320.4	2454.3	2536.2	2792.1	2818.0
70°	7636.7	3217.8	1846.7	1634.9	1658.8	1892.7	2112.5	2264.4	2386.3	2724.1	2732.1
72.5°	5630.1	2638.2	1600.9	1439.0	1465.0	1668.8	1902.7	2078.6	2242.4	2554.2	2550.2
75°	3347.7	2062.6	1329.1	1241.1	1259.1	1449.0	1712.8	1926.7	2172.5	2488.3	2526.2
77.5°	2030.6	1552.9	1083.2	1039.3	1061.3	1255.1	1576.9	1804.7	2142.5	2346.4	2334.4
80°	1227.1	1109.2	865.4	837.4	859.4	1073.3	1459.0	1712.8	1872.7	2004.6	2004.6
82.5°	641.6	677.5	635.6	613.6	643.6	871.4	1327.1	1495.0	1654.9	1421.0	1327.1
85°	261.8	353.8	385.7	383.7	401.7	603.6	1145.2	1279.1	1067.3	1013.3	1037.3
87.5°	87.9	149.9	187.9	161.9	169.9	379.7	793.4	617.6	733.5	511.6	485.7
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)