

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: P318141

Luminaire Tested: **GAN-SA7D-750-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53856 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

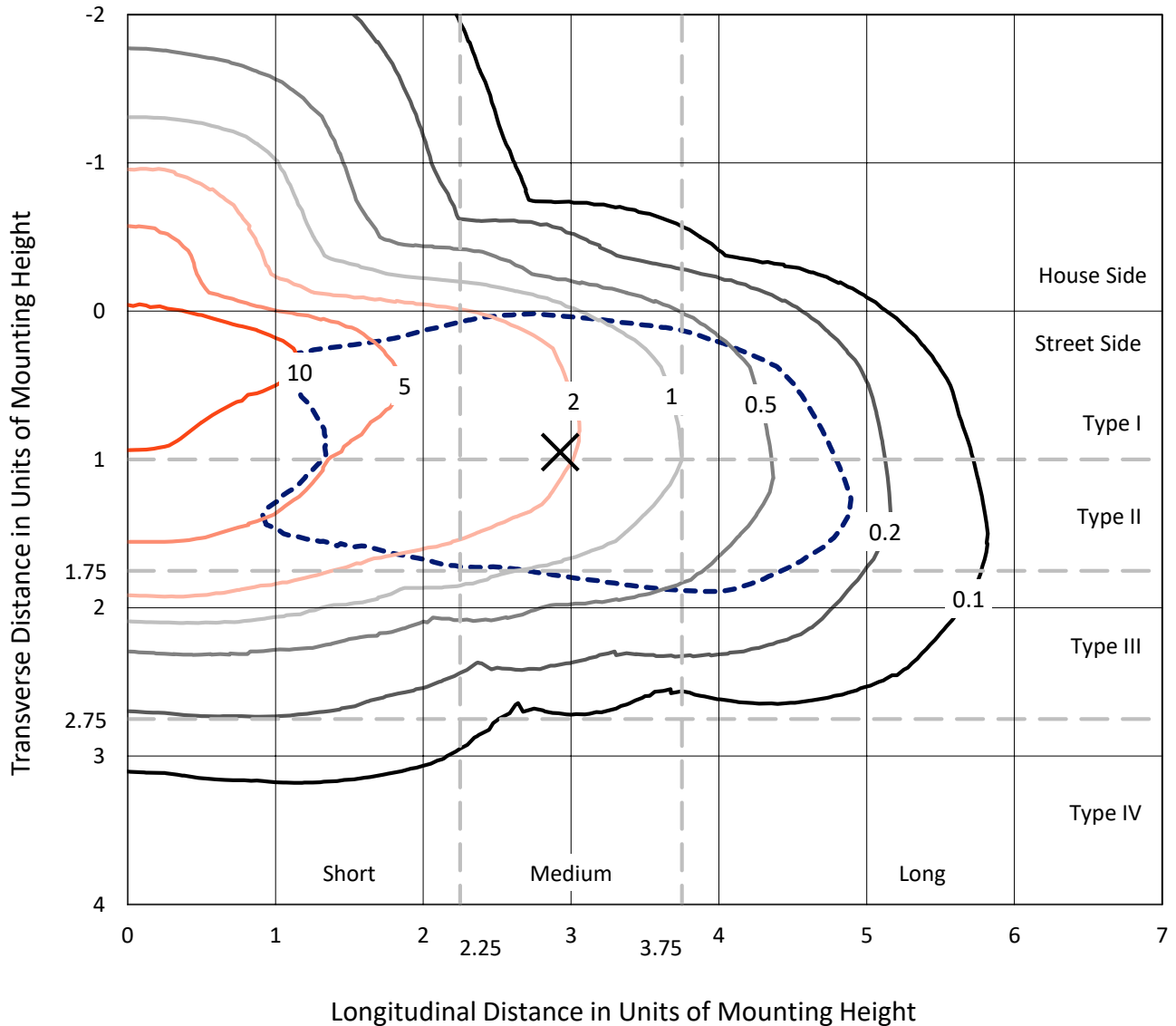
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

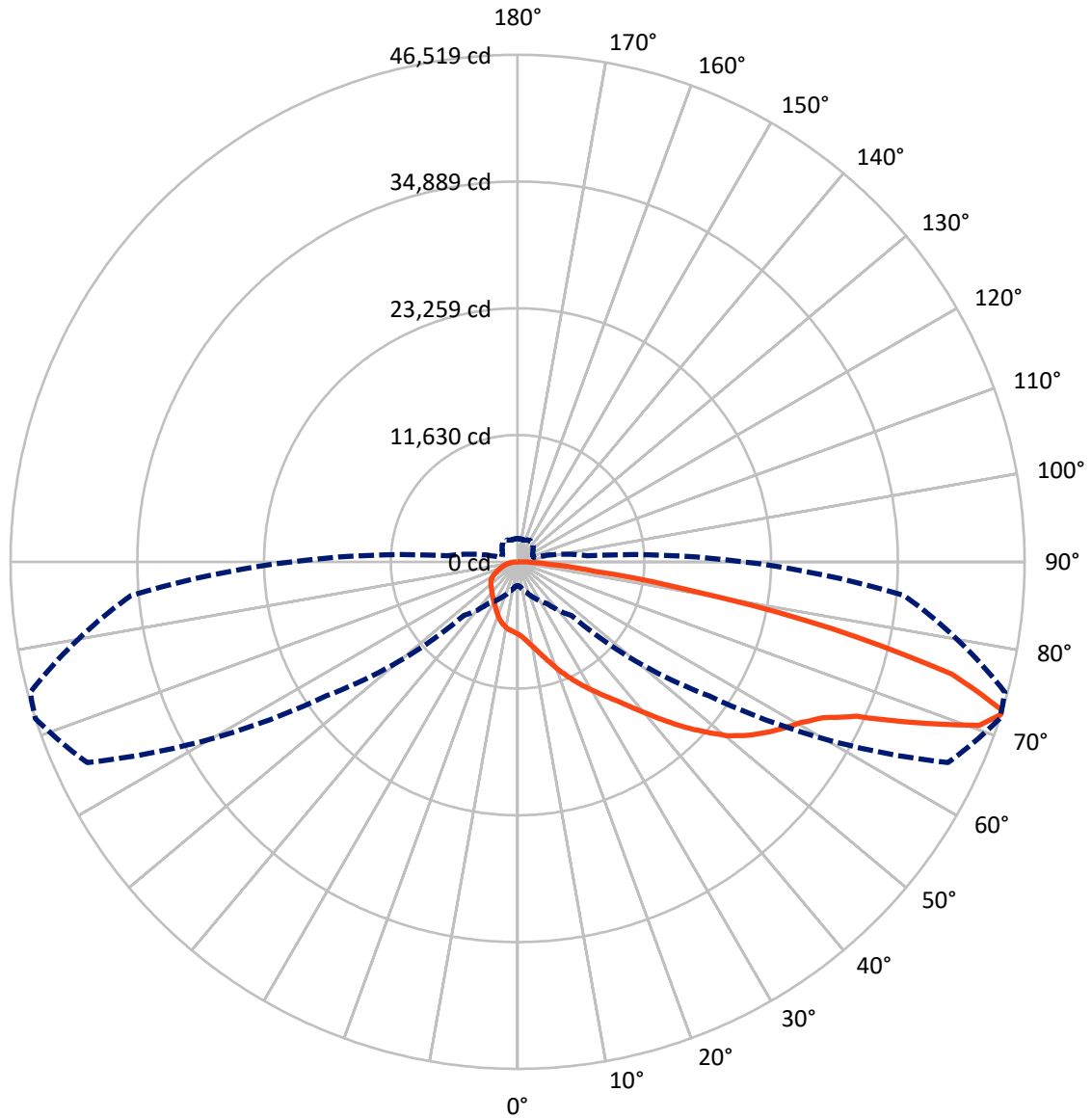
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9990.6	0.0	9990.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	43865.4	0.0	43865.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	53856.0	0.0	53856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.9	1.2
10°-20°	2145.4	4.0
20°-30°	3759.5	7.0
30°-40°	5574.2	10.4
40°-50°	8152.7	15.1
50°-60°	11218.0	20.8
60°-70°	12489.0	23.2
70°-80°	8462.5	15.7
80°-90°	1390.9	2.6
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°	53856.0	100.0
0°-180°	53856.0	100.0

Coefficient of Utilization

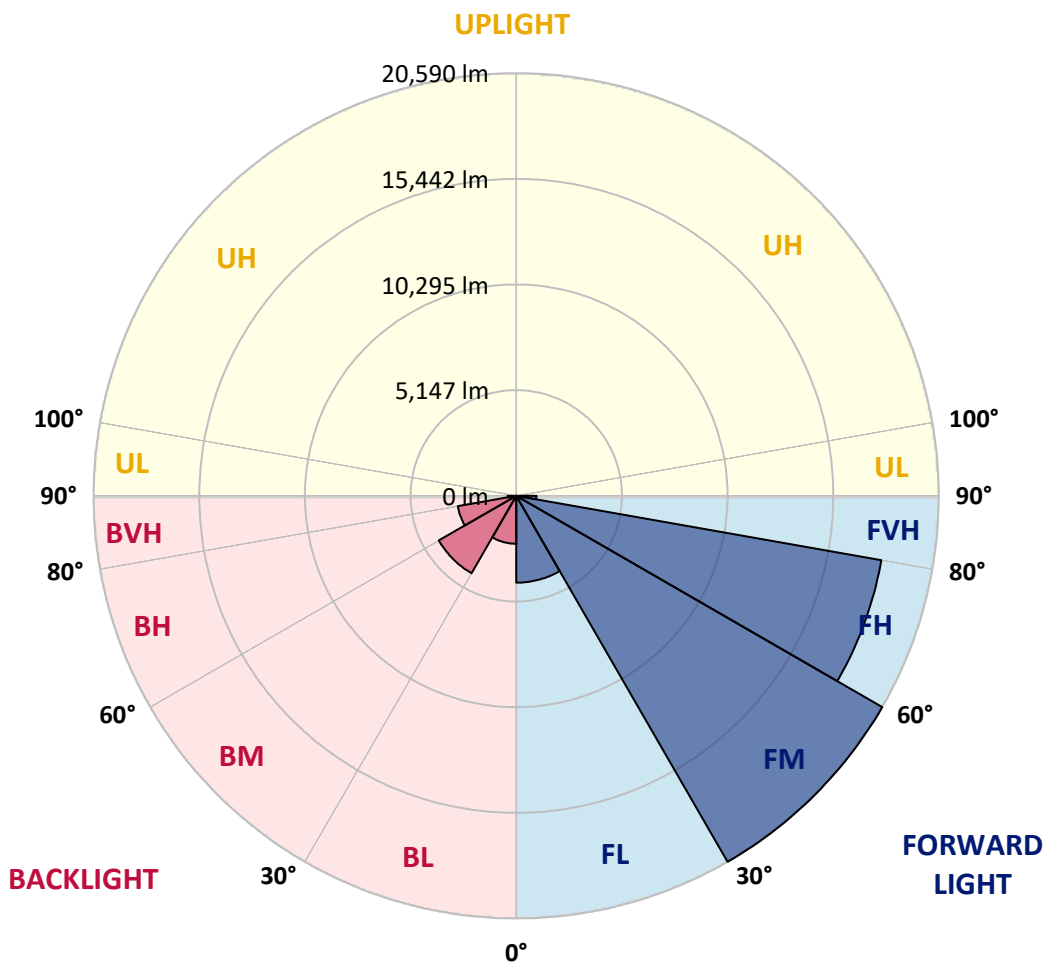


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4233.4	7.9			
FM (30°-60°)	20589.8	38.2			
FH (60°-80°)	18061.0	33.5			G5
FVH (80°-90°)	981.1	1.8			G5
BL (0°-30°)	2335.5	4.3	B3/2500		
BM (30°-60°)	4355.0	8.1	B3/5000		
BH (60°-80°)	2890.4	5.4	B4/5000		G4/5000
BVH (80°-90°)	409.8	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6625.7	6625.7	6625.7	6625.7	6625.7	6625.7	6625.7	6625.7	6625.7	6625.7	6625.7
2.5°	7319.2	7308.1	7269.2	7269.2	7195.0	7131.9	7013.3	6933.5	6838.9	6805.6	6694.3
5°	8027.6	8031.3	7983.1	7949.7	7840.3	7706.8	7504.7	7321.1	7137.5	7063.3	6835.2
7.5°	8622.9	8615.4	8602.5	8574.6	8472.7	8335.4	8062.8	7790.2	7519.5	7408.2	7015.1
10°	9004.9	9021.5	9032.7	9045.7	9003.0	8904.7	8647.0	8315.0	7960.8	7808.8	7230.2
12.5°	9197.7	9227.4	9279.3	9368.3	9438.8	9427.7	9240.4	8888.0	8467.1	8276.1	7499.1
15°	9310.8	9349.8	9431.4	9590.8	9789.3	9902.4	9852.3	9533.4	9064.2	8828.7	7827.3
17.5°	9381.3	9412.8	9538.9	9752.2	10047.0	10347.4	10479.1	10212.1	9739.2	9470.3	8203.8
20°	9429.5	9453.6	9611.2	9861.6	10243.6	10722.0	11089.2	11022.4	10482.8	10134.2	8596.9
22.5°	9537.1	9557.5	9707.7	9959.9	10382.7	11000.2	11677.0	11777.2	11267.2	10872.2	9017.8
25°	9837.5	9837.5	9963.6	10139.7	10536.6	11241.2	12174.0	12617.2	12068.3	11608.4	9407.3
27.5°	10410.5	10404.9	10451.3	10512.5	10812.9	11486.0	12617.2	13358.9	12899.1	12396.5	9785.6
30°	11089.2	11126.3	11131.8	11102.2	11243.1	11792.0	13027.0	14141.5	13735.4	13193.9	10173.1
32.5°	11962.6	11986.7	11958.9	11860.6	11840.2	12225.9	13429.4	14961.1	14640.3	14026.5	10527.3
35°	13071.5	13025.2	12938.0	12737.7	12546.7	12806.3	13889.3	15780.8	15656.5	15033.4	11015.0
37.5°	14260.2	14262.0	14154.5	13700.1	13436.8	13548.1	14523.5	16709.8	16886.0	16231.4	11639.9
40°	15213.3	15263.4	15330.1	14733.0	14391.8	14545.7	15330.1	17787.2	18339.8	17651.8	12454.0
42.5°	15879.0	15936.5	16125.7	15751.1	15396.9	15682.5	16279.6	18936.9	19971.7	19291.1	13407.2
45°	16583.7	16615.2	16748.7	16587.4	16361.2	17004.6	17349.6	20127.4	21698.1	21037.9	14473.4
47.5°	17325.5	17358.8	17496.1	17388.5	17269.8	18239.7	18465.9	21249.3	23352.2	22957.2	15612.0
50°	18241.5	18263.8	18393.6	18198.9	18236.0	19170.6	19463.6	22278.5	25086.0	24681.8	16754.3
52.5°	19491.4	19496.9	19676.8	19500.6	19326.3	19853.0	20322.1	23248.3	26445.3	26254.3	17896.6
55°	20470.5	20529.8	21119.5	21082.4	20982.3	20472.3	21039.8	24171.8	27658.0	27748.9	19109.4
57.5°	19845.6	20077.4	21271.6	22113.5	22933.1	22013.3	22009.6	25212.1	28785.5	29215.7	20442.7
60°	17381.1	17696.3	19456.1	21323.5	23888.1	24694.8	24023.5	26482.4	29924.1	30669.6	22113.5
62.5°	12413.2	12932.4	15317.2	18299.0	22578.9	26471.2	28121.6	28498.1	31472.5	32353.3	24284.9
65°	6275.2	6668.3	8667.4	12259.3	18039.4	25310.4	32575.9	32911.5	34163.2	34945.8	27628.4
67.5°	3812.6	3961.0	4936.4	6818.5	11059.5	19715.7	34029.7	40267.8	39370.3	39785.7	32396.0
70°	2809.4	2918.8	3527.0	4528.4	6360.5	11569.5	29568.1	45517.6	44927.9	44881.5	35919.3
72°	2188.2	2267.9	2805.7	3658.7	4650.8	6940.9	21431.0	43579.7	46518.9	46285.3	35596.6
72.5°	2075.0	2145.5	2635.1	3443.6	4394.9	6291.9	19268.8	42272.4	46404.0	46298.3	35179.4
75°	1633.7	1683.8	1950.8	2662.9	3439.9	3569.7	10558.8	32759.4	41165.3	42876.9	31641.3
77.5°	1351.8	1359.3	1500.2	1937.8	2681.4	2523.8	5186.7	22729.1	29477.2	31359.4	22413.9
80°	1101.5	1110.8	1177.5	1359.3	2028.7	1867.4	2462.6	13069.7	16504.0	16524.4	10659.0
82.5°	877.1	879.0	953.2	993.9	1457.5	1335.2	1411.2	6136.1	7211.7	6937.2	3831.1
85°	617.5	604.5	930.9	815.9	953.2	856.7	778.8	2429.2	2981.8	2852.0	1199.8
87.5°	205.8	213.3	413.5	528.5	556.3	485.8	346.8	930.9	1125.6	1116.3	380.1
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°	6625.7	6625.7	6625.7	6625.7	6625.7	6625.7	6625.7	6625.7	6625.7	6625.7	6625.7
2.5°	6659.1	6599.7	6512.6	6416.1	6340.1	6262.2	6204.7	6175.1	6141.7	6113.9	6147.3
5°	6729.5	6618.3	6432.8	6251.1	6117.6	5998.9	5913.6	5869.1	5828.3	5800.5	5804.2
7.5°	6844.5	6664.6	6353.1	6087.9	5902.5	5774.5	5687.4	5657.7	5631.7	5624.3	5633.6
10°	6966.9	6701.7	6247.4	5895.1	5683.7	5578.0	5539.0	5559.4	5578.0	5594.7	5613.2
12.5°	7106.0	6735.1	6093.5	5668.8	5489.0	5448.2	5487.1	5576.1	5641.0	5680.0	5704.1
15°	7287.7	6764.8	5915.5	5442.6	5322.1	5368.4	5500.1	5654.0	5767.1	5839.4	5850.6
17.5°	7454.6	6762.9	5687.4	5214.5	5186.7	5322.1	5520.5	5737.4	5889.5	5991.5	6011.9
20°	7627.1	6712.8	5422.2	4992.0	5049.5	5272.0	5529.8	5791.2	5974.8	6093.5	6121.3
22.5°	7788.4	6625.7	5131.1	4789.9	4934.5	5205.2	5494.5	5759.7	5943.3	6039.7	6069.4
25°	7897.8	6473.6	4836.2	4619.3	4832.5	5123.6	5379.6	5592.8	5730.0	5778.2	5785.7
27.5°	7953.4	6275.2	4558.1	4470.9	4726.8	4990.1	5166.3	5272.0	5310.9	5307.2	5299.8
30°	7960.8	6013.7	4318.8	4350.4	4604.4	4793.6	4877.0	4856.6	4806.5	4721.2	4728.7
32.5°	7936.7	5718.9	4118.6	4235.4	4448.7	4554.4	4558.1	4459.8	4326.3	4190.9	4153.8
35°	7944.2	5429.6	3942.4	4105.6	4259.5	4305.9	4263.2	4118.6	3936.8	3762.5	3725.4
37.5°	8025.7	5177.4	3790.3	3955.4	4050.0	4061.1	3999.9	3847.8	3714.3	3543.7	3528.9
40°	8220.5	4997.5	3645.7	3786.6	3840.4	3846.0	3758.8	3651.3	3662.4	3571.5	3569.7
42.5°	8570.9	4919.7	3517.8	3610.5	3643.9	3655.0	3588.2	3519.6	3616.0	3556.7	3536.3
45°	9023.4	4938.2	3410.2	3438.0	3499.2	3551.1	3510.3	3426.9	3464.0	3206.2	3120.9
47.5°	9546.3	5056.9	3324.9	3289.7	3395.4	3493.6	3430.6	3304.5	3172.8	2916.9	2868.7
50°	10158.3	5240.5	3247.0	3143.2	3282.2	3415.8	3352.7	3172.8	2974.4	2850.2	2833.5
52.5°	10796.2	5464.9	3169.1	2981.8	3139.5	3356.4	3324.9	3143.2	2898.4	2776.0	2753.8
55°	11519.4	5691.1	3070.9	2794.5	2985.5	3328.6	3311.9	3035.6	2840.9	2772.3	2755.6
57.5°	12418.8	5948.8	2941.0	2599.8	2840.9	3228.5	3176.5	2970.7	2781.6	2729.6	2724.1
60°	13590.7	6329.0	2753.8	2392.1	2664.7	3074.6	3063.4	2876.1	2687.0	2649.9	2642.5
62.5°	15348.7	6957.6	2496.0	2184.5	2468.2	2813.1	2915.1	2748.2	2586.9	2585.0	2588.7
65°	18074.6	7903.4	2216.0	2002.7	2269.8	2592.4	2742.6	2616.5	2484.9	2522.0	2527.5
67.5°	21234.5	8687.8	1941.5	1824.7	2067.6	2382.9	2586.9	2484.9	2349.5	2445.9	2447.8
70°	22285.9	7986.8	1700.5	1648.5	1858.1	2180.7	2418.1	2340.2	2203.0	2299.4	2290.2
72°	20739.4	6447.7	1544.7	1515.0	1700.5	2013.9	2267.9	2204.9	2069.5	2134.4	2110.3
72.5°	20251.7	6147.3	1505.8	1481.6	1657.8	1971.2	2229.0	2171.5	2036.1	2091.7	2069.5
75°	18065.4	5338.8	1294.4	1299.9	1446.4	1763.5	2010.1	1991.6	1852.5	1858.1	1850.7
77.5°	13103.0	3914.6	1090.4	1127.5	1231.3	1550.3	1789.5	1778.3	1626.3	1598.5	1592.9
80°	6080.5	1997.2	888.2	904.9	1012.5	1296.2	1526.2	1511.3	1388.9	1353.7	1333.3
82.5°	2082.5	949.4	667.6	678.7	784.4	1044.0	1324.0	1314.8	1212.8	1144.2	1101.5
85°	743.6	472.9	467.3	456.2	560.0	821.5	1153.4	1103.4	953.2	812.2	808.5
87.5°	241.1	202.1	241.1	239.2	326.4	556.3	838.2	713.9	691.7	574.9	563.7
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)