

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: P298905

Luminaire Tested: **GAA-AF-09-LED-U-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298905
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: GAA-AF-09-LED-U-T2-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42469.4 lumens
Efficiency: N/A
Efficacy: 84.8 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

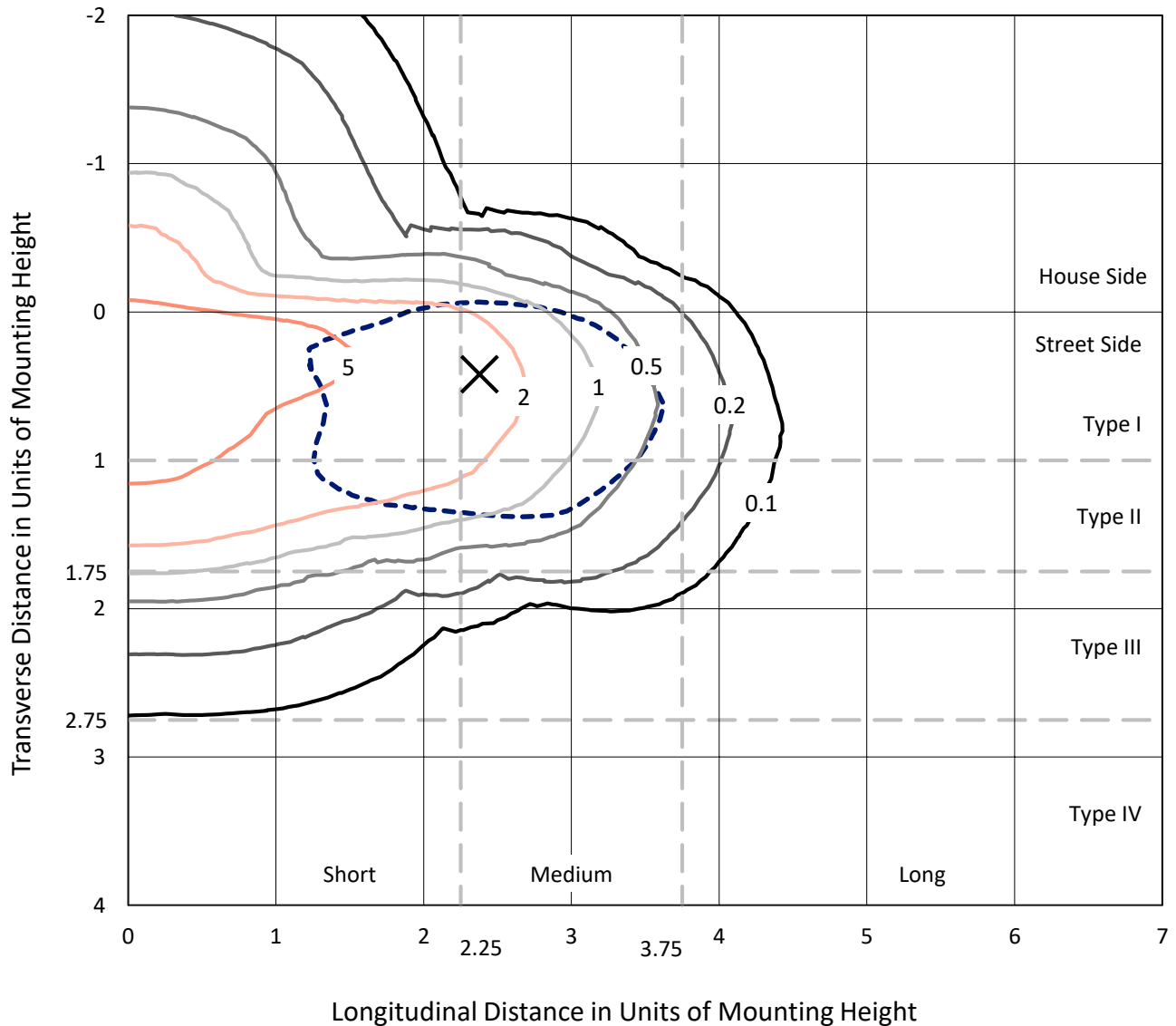
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

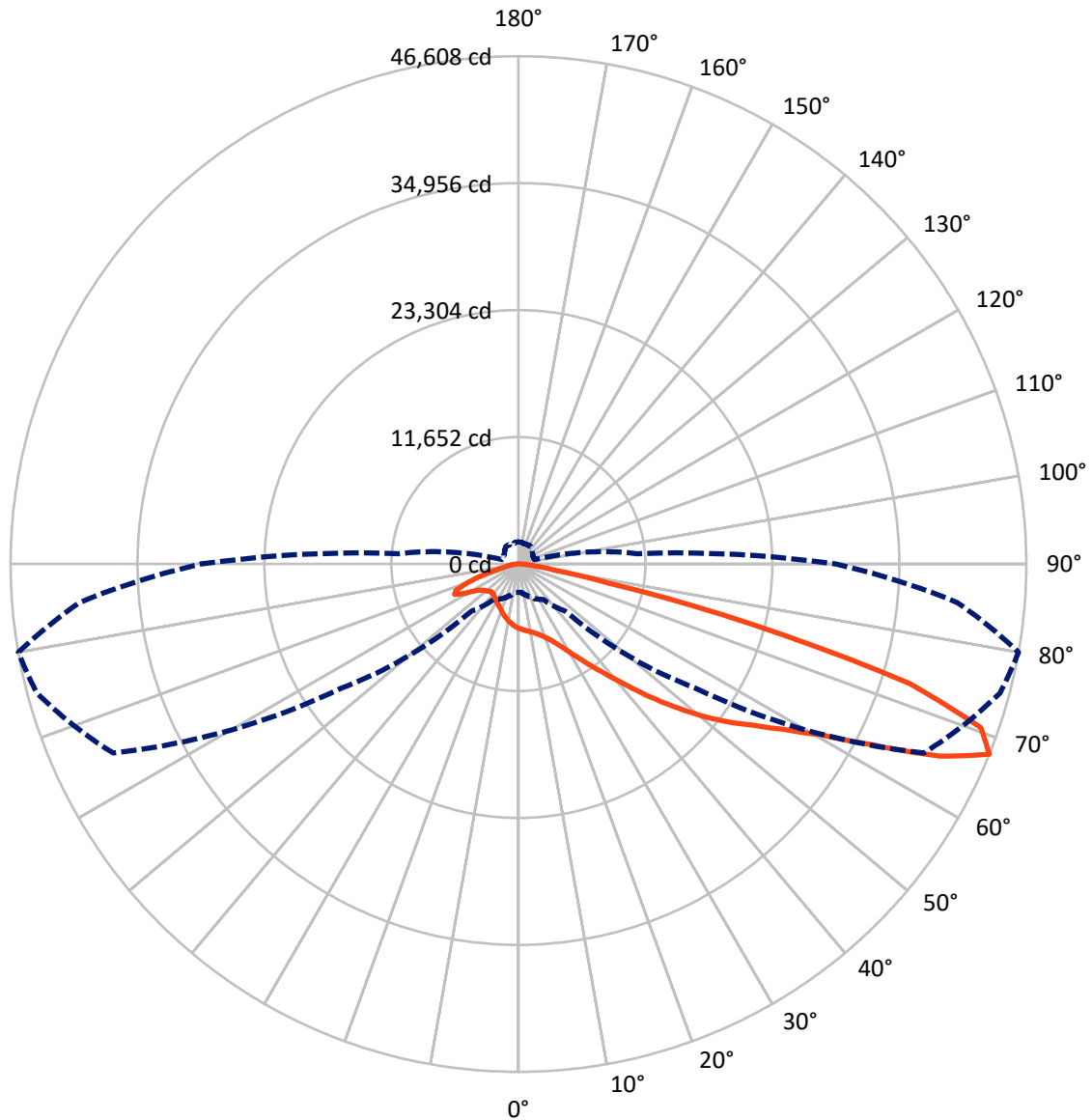
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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	7821.3	0.0	7821.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	34648.1	0.0	34648.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	42469.4	0.0	42469.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.3	1.3
10°-20°	1567.9	3.7
20°-30°	2595.2	6.1
30°-40°	4245.1	10.0
40°-50°	6854.1	16.1
50°-60°	9895.3	23.3
60°-70°	10920.0	25.7
70°-80°	5033.5	11.9
80°-90°	814.1	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°	42469.4	100.0
0°-180°	42469.4	100.0



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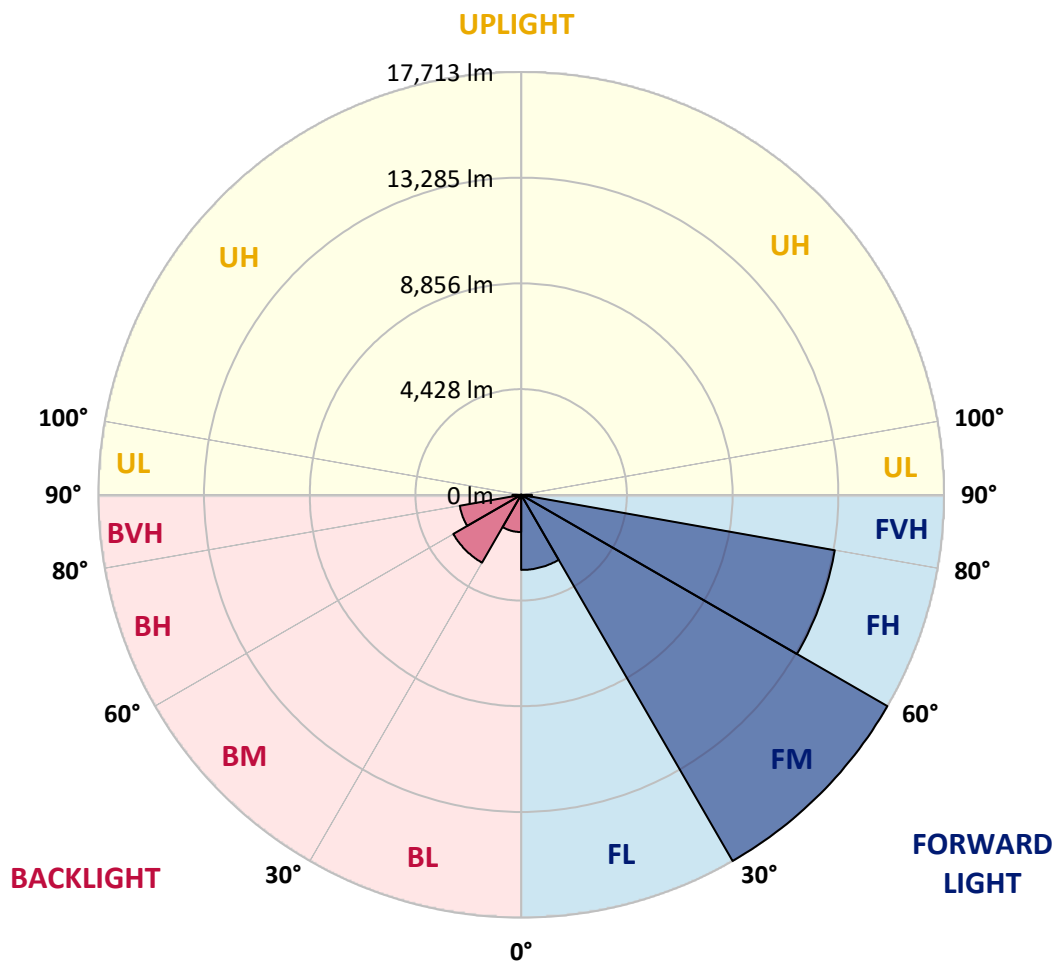
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3146.9	7.4			
FM (30°-60°)	17712.9	41.7			
FH (60°-80°)	13340.7	31.4			G5
FVH (80°-90°)	447.6	1.1			G3/500
BL (0°-30°)	1560.4	3.7	B3/2500		
BM (30°-60°)	3281.5	7.7	B3/5000		
BH (60°-80°)	2612.8	6.2	B4/5000		G4/5000
BVH (80°-90°)	366.5	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°	5900.2	5900.2	5900.2	5900.2	5900.2	5900.2	5900.2	5900.2	5900.2	5900.2	5900.2
2.5°	6454.3	6416.7	6422.9	6412.5	6381.1	6326.8	6268.2	6161.6	6050.8	5992.2	5946.2
5°	6993.7	6983.3	6968.6	6935.2	6855.7	6742.8	6602.7	6414.6	6211.8	6105.1	6002.7
7.5°	7397.2	7391.0	7372.2	7351.2	7273.9	7138.0	6926.8	6659.2	6364.4	6218.0	6059.1
10°	7430.7	7441.1	7455.8	7512.2	7522.7	7449.5	7234.2	6910.1	6523.3	6335.1	6132.3
12.5°	7146.3	7169.3	7225.8	7370.1	7522.7	7612.6	7501.8	7173.5	6709.4	6481.5	6224.3
15°	6770.0	6782.5	6851.5	7050.2	7324.1	7602.1	7706.7	7464.1	6949.8	6669.6	6362.3
17.5°	6609.0	6615.3	6663.4	6795.1	7050.2	7447.4	7821.7	7779.9	7244.6	6903.8	6531.7
20°	6527.5	6542.1	6611.1	6740.7	6901.7	7248.8	7838.4	8120.7	7595.9	7196.5	6744.9
22.5°	6759.5	6753.3	6778.4	6843.2	6979.1	7188.2	7825.9	8471.9	8043.3	7572.9	7023.0
25°	7301.1	7324.1	7280.2	7207.0	7250.9	7397.2	7892.8	8852.4	8603.6	8055.8	7386.8
27.5°	8072.6	8049.6	7984.8	7813.3	7723.4	7786.1	8114.4	9262.2	9299.9	8691.4	7867.7
30°	8842.0	8823.2	8760.4	8551.4	8367.4	8315.1	8545.1	9732.7	10129.9	9454.6	8457.3
32.5°	9640.7	9619.8	9561.2	9352.1	9130.5	9009.2	9157.7	10276.3	11108.4	10366.2	9151.4
35°	10625.4	10585.7	10462.4	10171.7	9954.3	9860.2	9929.2	10960.0	12237.4	11445.0	9994.0
37.5°	11551.7	11612.3	11486.8	11085.4	10803.2	10769.7	10847.1	11794.2	13454.3	12651.4	10962.1
40°	12482.1	12492.5	12379.6	12051.4	11760.7	11706.4	11900.8	12806.1	14890.7	14094.1	12139.2
42.5°	13443.8	13464.7	13274.5	12971.3	12758.0	12768.5	12990.1	13991.6	16538.2	15793.9	13494.0
45°	14583.3	14614.7	14405.6	14008.3	13813.9	14204.9	14112.9	15321.4	18344.7	17725.8	15049.6
47.5°	15775.1	15823.2	15664.3	15292.1	15049.6	15586.9	15235.6	16795.4	20289.1	19797.8	16757.7
50°	16425.3	16494.3	16649.0	16621.8	16569.6	16479.7	16488.0	18376.0	22294.2	21955.5	18514.0
52.5°	16076.1	16074.1	16638.6	17324.3	18056.1	18110.5	18014.3	20042.4	24167.5	24065.1	20167.8
55°	14478.8	14587.5	15442.6	16770.3	18769.1	20017.3	20301.6	21951.3	26007.4	26126.6	21846.7
57.5°	11819.3	11909.2	13063.3	14913.7	17807.3	21150.5	23554.9	24725.8	28064.8	28620.9	24081.8
60°	8016.1	8124.8	9348.0	11570.5	15218.9	20519.1	26651.4	29676.8	30527.7	31792.7	27218.0
62.5°	4710.6	4808.8	5806.1	7299.0	10715.3	17585.7	28010.4	36720.7	34439.6	36578.5	32001.7
65°	3242.8	3309.7	3794.8	4543.3	6157.4	11844.4	26325.2	41583.9	40459.0	42508.0	37548.6
67.5°	2609.3	2601.0	2985.7	3495.8	3964.2	6107.2	19906.5	41034.0	45752.9	46608.1	40427.7
70°	2149.3	2141.0	2402.3	2824.7	3167.6	3439.4	10842.9	34627.8	44674.1	45021.1	37776.5
72.5°	1798.1	1806.4	1973.7	2287.3	2598.9	2590.5	4764.9	24359.9	35144.2	37544.5	30113.8
75°	1517.9	1522.1	1632.9	1854.5	2109.6	2086.6	2584.2	13197.1	20429.2	22099.7	16692.9
77.5°	1292.1	1296.3	1367.4	1490.7	1672.6	1664.3	1885.9	5701.6	8522.1	8417.6	5710.0
80°	1152.0	1152.0	1185.5	1208.5	1308.8	1271.2	1398.7	2738.9	3602.4	3326.5	2279.0
82.5°	903.2	907.4	1112.3	1103.9	1030.8	982.7	982.7	1614.1	1908.9	1764.6	1333.9
85°	508.1	506.0	717.1	865.6	907.4	692.1	685.8	903.2	1039.1	915.8	646.1
87.5°	217.4	221.6	332.4	384.7	514.3	430.7	424.4	466.2	529.0	457.9	299.0
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°	5900.2	5900.2	5900.2	5900.2	5900.2	5900.2	5900.2	5900.2	5900.2	5900.2	5900.2
2.5°	5902.3	5848.0	5728.8	5580.3	5446.5	5358.7	5279.3	5164.3	5170.5	5091.1	5032.5
5°	5898.1	5785.2	5509.3	5181.0	4865.3	4637.4	4465.9	4311.2	4273.6	4200.4	4156.5
7.5°	5902.3	5718.3	5254.2	4729.4	4338.4	4049.9	3903.5	3822.0	3803.2	3778.1	3780.2
10°	5917.0	5657.7	4974.0	4307.0	3897.2	3707.0	3671.4	3696.5	3725.8	3734.2	3736.3
12.5°	5950.4	5603.3	4666.7	3930.7	3621.3	3562.7	3623.4	3709.1	3765.5	3792.7	3790.6
15°	6025.7	5561.5	4371.9	3635.9	3468.6	3500.0	3612.9	3734.2	3815.7	3853.3	3855.4
17.5°	6107.2	5500.9	4068.7	3410.1	3355.7	3435.2	3575.3	3717.4	3817.8	3859.6	3868.0
20°	6213.9	5425.6	3750.9	3240.7	3249.1	3339.0	3470.7	3612.9	3723.7	3759.3	3776.0
22.5°	6353.9	5344.1	3472.8	3102.7	3127.8	3196.8	3299.3	3422.6	3518.8	3535.5	3550.2
25°	6542.1	5256.3	3251.2	2977.3	2987.7	3027.5	3096.5	3169.6	3236.6	3217.7	3232.4
27.5°	6795.1	5181.0	3086.0	2862.3	2843.5	2851.8	2887.4	2910.4	2945.9	2893.7	2899.9
30°	7092.0	5099.5	2958.5	2761.9	2709.7	2695.0	2703.4	2715.9	2743.1	2672.0	2661.6
32.5°	7437.0	5001.2	2839.3	2674.1	2601.0	2571.7	2575.9	2609.3	2713.9	2669.9	2646.9
35°	7838.4	4890.4	2713.9	2578.0	2527.8	2486.0	2481.8	2586.3	2897.8	2870.7	2849.8
37.5°	8308.8	4779.6	2588.4	2469.2	2473.4	2427.4	2412.8	2532.0	2933.4	2826.8	2812.1
40°	8906.8	4721.0	2481.8	2354.2	2406.5	2400.2	2371.0	2431.6	2699.2	2504.8	2479.7
42.5°	9646.9	4729.4	2402.3	2230.9	2327.1	2394.0	2348.0	2350.1	2446.2	2299.9	2276.9
45°	10560.6	4827.7	2345.9	2132.6	2237.2	2387.7	2339.6	2306.1	2314.5	2237.2	2224.6
47.5°	11626.9	5030.5	2306.1	2051.1	2151.4	2364.7	2337.5	2293.6	2274.8	2233.0	2222.5
50°	12812.4	5325.3	2276.9	1973.7	2074.1	2327.1	2339.6	2281.1	2260.2	2243.4	2237.2
52.5°	13977.0	5661.9	2233.0	1906.8	2013.4	2281.1	2345.9	2268.5	2245.5	2233.0	2226.7
55°	15275.4	6082.1	2166.1	1850.4	1963.3	2222.5	2345.9	2249.7	2224.6	2226.7	2224.6
57.5°	17029.5	6761.6	2086.6	1802.3	1902.6	2151.4	2306.1	2228.8	2197.4	2199.5	2201.6
60°	19770.6	7959.7	1990.4	1754.2	1827.4	2067.8	2251.8	2182.8	2151.4	2159.8	2161.9
62.5°	23801.6	9718.0	1865.0	1683.1	1747.9	1977.9	2176.5	2124.3	2092.9	2113.8	2113.8
65°	27991.6	11269.4	1710.3	1593.2	1664.3	1879.6	2082.4	2051.1	2019.7	2067.8	2065.7
67.5°	29118.5	10922.3	1555.6	1494.9	1580.6	1770.9	1969.5	1952.8	1936.1	2019.7	2015.5
70°	25867.3	8768.8	1413.4	1394.6	1488.6	1653.8	1848.3	1848.3	1837.8	1900.5	1885.9
72.5°	19707.9	6218.0	1277.5	1287.9	1384.1	1526.3	1716.5	1731.2	1714.5	1745.8	1733.3
75°	10550.2	3558.5	1141.6	1170.8	1254.5	1396.7	1570.2	1584.8	1574.4	1572.3	1578.6
77.5°	3506.3	1739.5	999.4	1045.4	1118.6	1262.8	1417.6	1440.6	1415.5	1411.3	1409.2
80°	1561.8	1093.5	842.6	903.2	968.0	1110.2	1256.6	1275.4	1248.2	1285.8	1237.8
82.5°	1003.6	719.2	675.3	742.2	805.0	957.6	1095.6	1099.8	1074.7	1248.2	1064.2
85°	487.2	445.3	508.1	568.7	623.1	752.7	907.4	909.5	846.8	771.5	744.3
87.5°	242.5	259.3	338.7	393.1	420.3	516.4	660.7	648.1	621.0	564.5	520.6
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)