

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: P302925

Luminaire Tested: **GAA-AF-08-LED-U-T4W-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-08-LED-U-T4W-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30082.9 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 257  
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

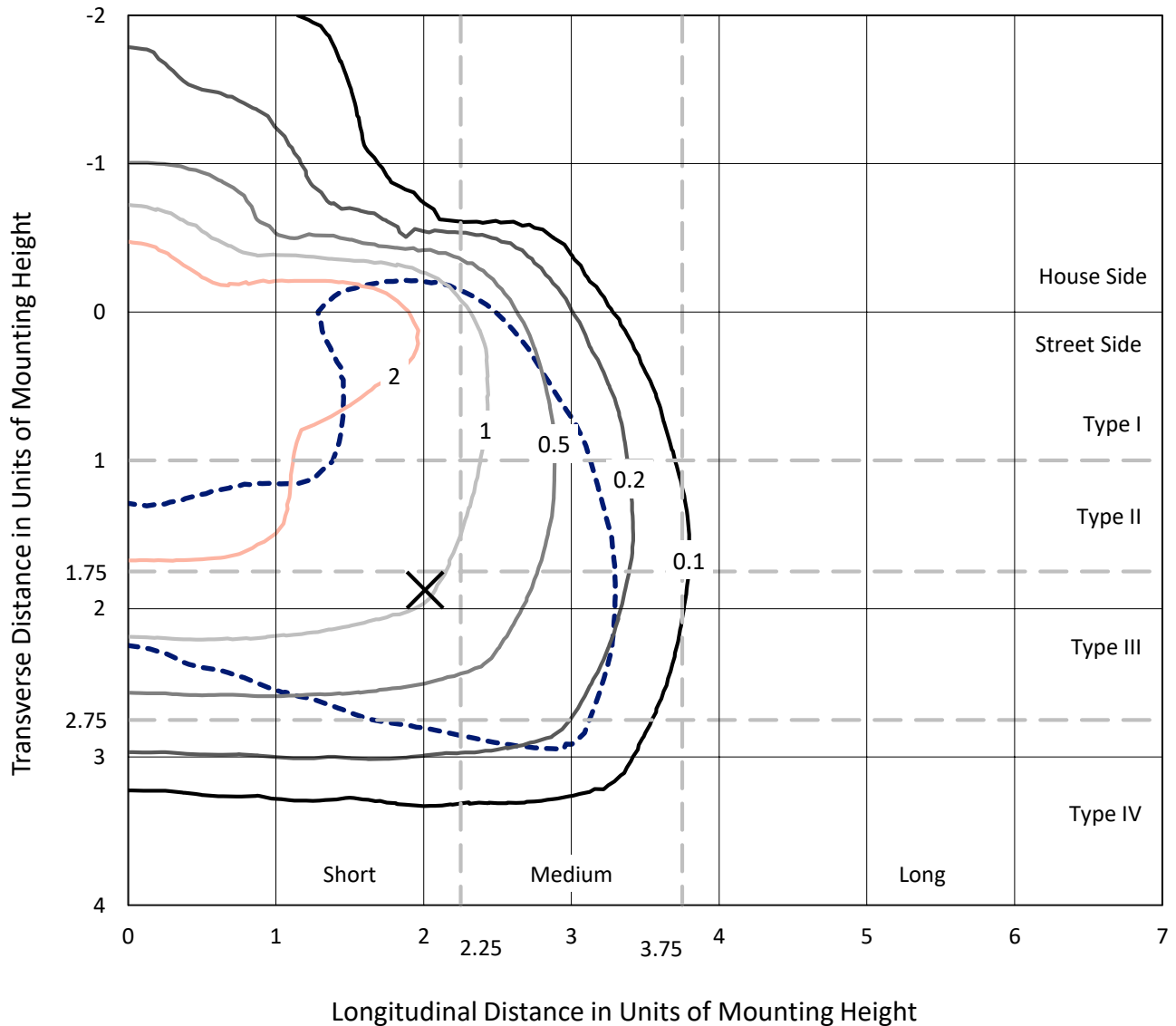


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

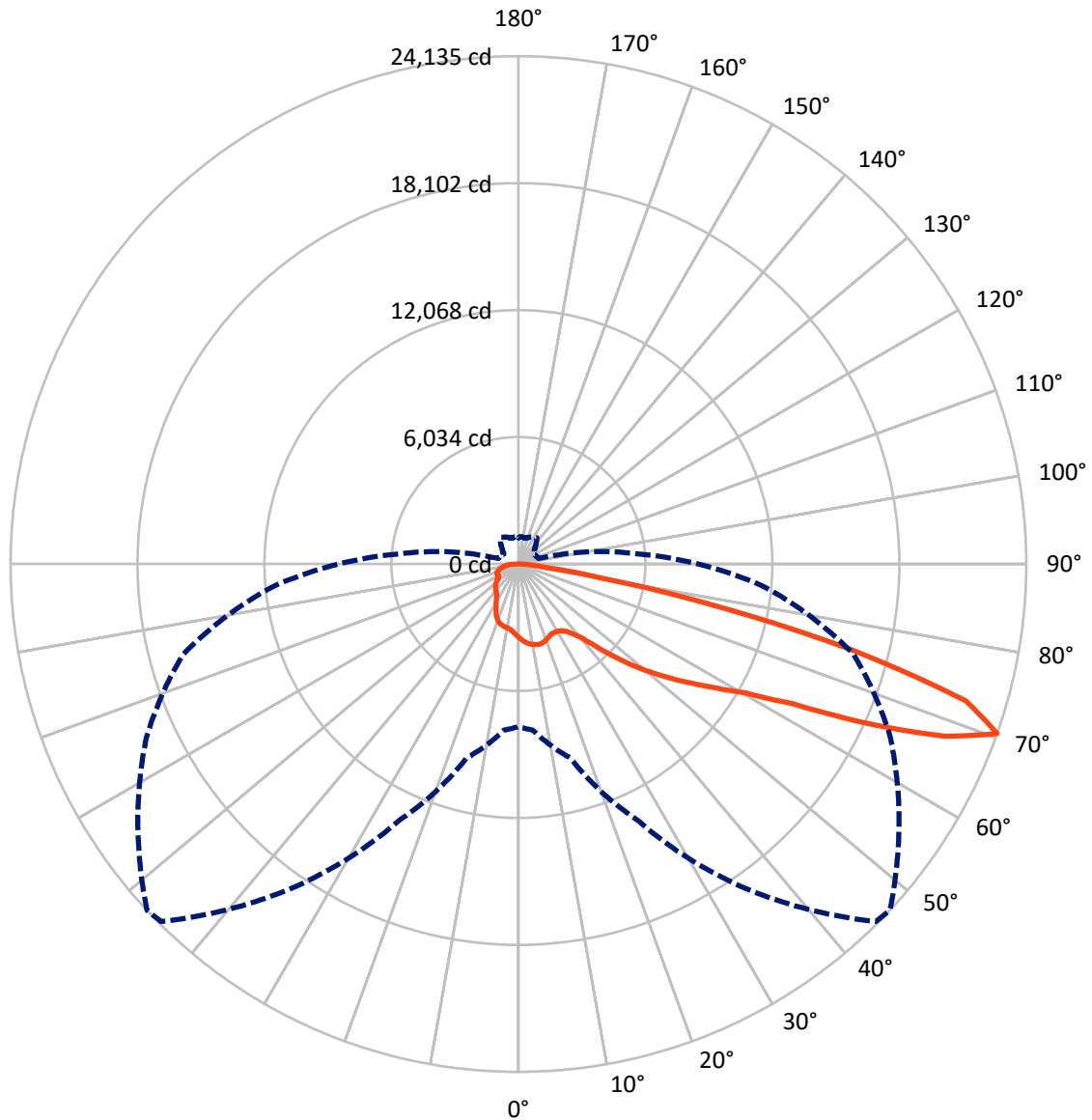


Based on 30 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6275.9	0.0	6275.9
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	23807.0	0.0	23807.0
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	30082.9	0.0	30082.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.4	1.1
10°-20°	981.2	3.3
20°-30°	1449.0	4.8
30°-40°	2106.1	7.0
40°-50°	3790.1	12.6
50°-60°	6566.0	21.8
60°-70°	9371.7	31.2
70°-80°	4810.9	16.0
80°-90°	673.5	2.2
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°	30082.9	100.0
0°-180°	30082.9	100.0



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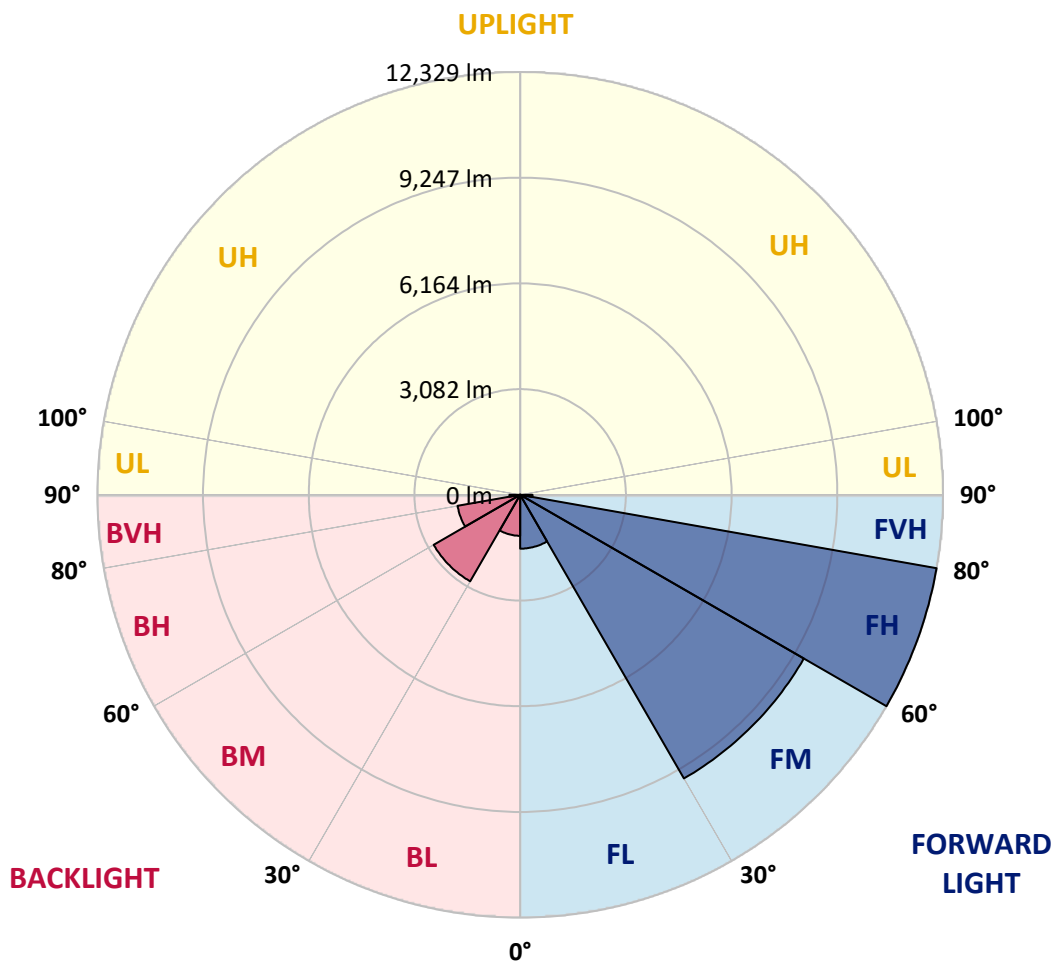
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1569.7	5.2			
FM (30°-60°)	9549.2	31.7			
FH (60°-80°)	12328.8	41.0			G5
FVH (80°-90°)	359.4	1.2			G3/500
BL (0°-30°)	1195.0	4.0	B3/2500		
BM (30°-60°)	2913.1	9.7	B3/5000		
BH (60°-80°)	1853.7	6.2	B3/2500		G3/2500
BVH (80°-90°)	314.1	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5
2.5°	3695.6	3688.3	3685.4	3679.6	3672.3	3635.3	3628.0	3601.8	3565.3	3526.9	3487.6
5°	3938.6	3937.2	3920.6	3891.5	3844.8	3764.1	3745.2	3681.0	3594.5	3510.9	3427.8
7.5°	4152.0	4138.9	4108.3	4049.5	3967.8	3857.9	3831.7	3742.3	3623.7	3509.4	3396.7
10°	4308.5	4301.2	4234.2	4153.5	4046.5	3925.0	3894.4	3794.8	3664.5	3519.6	3379.2
12.5°	4398.0	4383.4	4305.6	4209.4	4082.0	3963.4	3932.3	3831.7	3685.4	3519.6	3354.4
15°	4392.1	4381.9	4304.2	4198.7	4070.4	3966.3	3938.6	3837.5	3681.0	3505.1	3322.3
17.5°	4275.0	4279.4	4213.8	4109.7	4004.3	3925.0	3900.2	3806.9	3651.4	3475.9	3284.4
20°	4070.4	4090.8	4046.5	3954.7	3895.9	3841.9	3825.9	3746.6	3606.2	3433.6	3243.1
22.5°	3865.2	3884.2	3866.7	3788.9	3780.2	3748.1	3739.3	3682.5	3566.8	3407.4	3218.3
25°	3714.6	3732.1	3729.1	3661.6	3688.3	3686.8	3679.6	3651.4	3558.0	3407.4	3222.7
27.5°	3673.7	3679.6	3673.7	3612.0	3648.5	3678.1	3672.3	3667.4	3584.3	3449.6	3278.5
30°	3814.2	3805.5	3759.8	3635.3	3669.4	3710.2	3704.3	3707.3	3663.0	3561.0	3403.0
32.5°	4374.6	4334.8	4191.4	3841.9	3752.5	3774.3	3777.3	3825.9	3833.2	3732.1	3596.0
35°	5213.1	5169.4	4983.2	4395.1	4011.5	3935.7	3935.7	4008.6	4052.4	3978.0	3895.9
37.5°	6101.7	6053.0	5953.9	5162.1	4555.9	4215.2	4207.9	4259.0	4321.7	4339.6	4360.1
40°	7111.2	7060.2	7087.9	6022.4	5315.7	4699.3	4595.3	4558.9	4728.5	4841.3	5005.6
42.5°	8216.5	8192.7	8202.9	6981.0	6180.4	5424.1	5276.3	5087.2	5292.3	5492.6	5836.7
45°	9239.2	9259.7	9249.4	8007.1	7143.8	6307.7	6151.2	5785.2	5986.0	6329.6	6890.5
47.5°	10135.1	10050.0	10181.7	9127.9	8222.4	7297.4	7103.9	6614.0	6817.1	7241.5	8189.8
50°	11222.4	11210.7	11017.8	10624.1	9526.0	8290.9	8037.7	7469.9	7785.9	8376.0	9827.9
52.5°	12365.6	12153.2	11976.3	11787.2	10909.4	9309.7	8999.1	8323.0	8924.8	9666.5	11824.2
55°	12599.5	12504.7	12723.9	13041.8	12242.7	10367.9	10006.3	9392.8	10207.0	11142.2	14126.2
57.5°	13100.1	13098.6	13552.6	14118.9	13615.3	11490.2	11125.7	10685.3	11648.2	12832.3	16570.2
60°	13438.4	13533.2	14376.5	15475.5	14963.2	12787.1	12451.7	12176.6	13287.7	14721.6	18847.4
62.5°	13615.3	13744.1	14894.7	16025.8	16868.6	14945.7	14610.8	14214.2	15456.6	16794.2	20179.2
65°	12879.4	13132.2	14814.0	16501.6	18537.3	18444.9	18294.3	17597.7	18168.4	18431.8	19698.0
67.5°	10841.8	11100.9	13059.3	16057.8	19728.7	21820.2	21852.3	20662.4	19837.0	18572.3	16561.4
70°	7724.6	7927.8	9548.4	13463.2	18821.2	24025.5	24135.4	22074.4	19504.6	16470.5	11570.9
72.5°	3667.4	3791.8	5325.9	8762.4	14935.5	22013.2	22225.6	20271.6	16584.7	12194.1	6312.1
75°	1347.9	1385.8	1799.9	3727.7	8662.8	16233.8	16484.1	14531.6	10994.0	6071.0	2404.6
77.5°	807.9	832.6	1010.1	1573.4	3407.4	9279.1	9649.0	7903.0	4804.8	2259.7	1182.6
80°	564.8	582.3	724.2	978.9	1609.9	3536.2	3865.2	3225.6	1914.1	1430.0	860.3
82.5°	382.1	390.8	509.4	661.5	1069.8	1262.8	1362.5	1434.4	1291.0	1064.0	545.9
85°	250.3	259.1	345.6	436.0	680.5	652.8	667.4	844.3	942.5	722.8	302.8
87.5°	143.4	149.2	208.0	232.8	333.9	276.6	279.5	444.8	603.2	487.5	184.2
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°	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5
2.5°	3477.4	3458.4	3416.1	3389.4	3364.6	3358.8	3348.5	3347.1	3345.6	3345.6	3341.3
5°	3399.6	3367.5	3301.9	3264.9	3234.3	3231.4	3229.9	3237.2	3240.2	3243.1	3238.7
7.5°	3350.0	3306.3	3224.1	3171.6	3135.2	3125.9	3141.0	3174.5	3196.4	3205.2	3200.8
10°	3319.4	3264.9	3170.2	3112.8	3082.2	3077.8	3096.8	3136.6	3181.8	3199.3	3197.9
12.5°	3284.4	3222.7	3121.5	3061.8	3044.3	3053.0	3077.8	3114.3	3161.4	3189.1	3190.6
15°	3248.9	3177.4	3073.4	3020.9	3013.6	3025.3	3048.6	3076.3	3112.8	3141.0	3143.9
17.5°	3206.6	3131.8	3028.2	2973.8	2968.0	2973.8	2975.2	2989.8	3013.6	3039.9	3047.2
20°	3161.4	3085.1	2976.7	2922.7	2896.5	2873.2	2846.4	2849.3	2856.6	2883.4	2889.2
22.5°	3128.8	3053.0	2937.3	2862.5	2792.5	2722.0	2669.5	2662.2	2665.1	2687.0	2694.3
25°	3131.8	3051.6	2927.1	2798.3	2644.7	2531.9	2461.5	2449.8	2448.3	2464.4	2475.1
27.5°	3189.1	3108.4	2965.0	2732.2	2483.8	2316.6	2242.2	2233.5	2221.8	2226.2	2237.9
30°	3316.5	3241.6	3057.4	2665.1	2309.3	2106.1	2028.4	2019.6	2003.6	1996.3	2005.0
32.5°	3524.0	3462.8	3192.0	2600.5	2135.3	1925.8	1847.1	1828.1	1817.9	1809.2	1816.4
35°	3869.6	3843.4	3371.9	2530.5	1981.7	1786.8	1715.3	1686.2	1671.6	1687.6	1699.3
37.5°	4411.1	4425.7	3607.6	2420.6	1863.1	1694.9	1634.7	1601.1	1579.2	1592.4	1605.5
40°	5178.1	5188.3	3868.2	2265.6	1760.5	1640.5	1576.3	1545.7	1514.6	1491.3	1489.8
42.5°	6184.8	6081.2	4124.3	2097.4	1641.9	1607.0	1535.5	1497.1	1450.4	1385.8	1372.7
45°	7379.0	7015.0	4318.7	1903.9	1508.8	1566.1	1489.8	1437.3	1363.9	1293.9	1286.6
47.5°	8755.1	8017.3	4414.0	1703.7	1384.3	1505.8	1434.4	1350.8	1258.4	1223.4	1219.1
50°	10435.0	9207.2	4459.2	1508.8	1276.4	1427.1	1353.7	1255.5	1178.2	1170.9	1166.6
52.5°	12348.2	10638.6	4474.3	1349.3	1187.0	1324.5	1288.1	1192.8	1131.1	1137.4	1137.4
55°	14350.3	12116.8	4275.0	1233.6	1104.8	1219.1	1243.9	1168.0	1116.5	1140.3	1149.1
57.5°	16188.1	13426.7	3648.5	1144.7	1027.6	1138.9	1227.8	1191.4	1156.4	1251.1	1257.0
60°	17599.2	14200.6	2724.9	1064.0	970.2	1110.7	1270.6	1280.8	1289.5	1516.1	1547.2
62.5°	17894.7	13943.4	1873.3	1001.3	944.0	1134.5	1347.9	1349.3	1339.1	1497.1	1516.1
65°	16538.1	12314.1	1362.5	965.8	922.1	1176.8	1414.0	1382.9	1315.8	1435.9	1400.4
67.5°	13133.6	9277.6	1134.5	939.6	890.0	1173.9	1484.0	1414.0	1302.7	1406.7	1349.3
70°	8525.2	5609.7	1010.1	917.7	851.6	1118.0	1524.8	1411.1	1264.3	1308.5	1240.9
72.5°	4159.3	2508.6	926.5	885.6	812.2	1040.7	1523.3	1384.3	1224.9	1222.0	1185.5
75°	1627.4	1149.1	850.1	837.0	745.1	952.7	1482.5	1346.4	1178.2	1131.1	1118.0
77.5°	952.7	819.5	753.9	765.6	664.5	864.7	1422.7	1280.8	1113.6	1058.2	1043.6
80°	693.6	613.4	642.6	661.5	567.7	777.2	1342.0	1200.1	1042.1	1069.8	1049.4
82.5°	444.8	395.2	521.1	540.0	472.9	687.8	1254.1	1115.0	941.0	854.5	834.1
85°	227.0	250.3	387.9	411.2	364.6	564.8	1147.6	1002.8	826.8	711.1	722.8
87.5°	127.4	171.1	247.4	276.6	257.6	434.5	930.8	826.8	674.7	548.8	483.2
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)