

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: P285751

Luminaire Tested: **USSL-XL-C049-D-U-T2-BZ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285751  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-XL-C049-D-U-T2-BZ  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K LEDS AND TYPE II OPTICS, GRAY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33101.7 lumens  
Efficiency: N/A  
Efficacy: 152.5 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

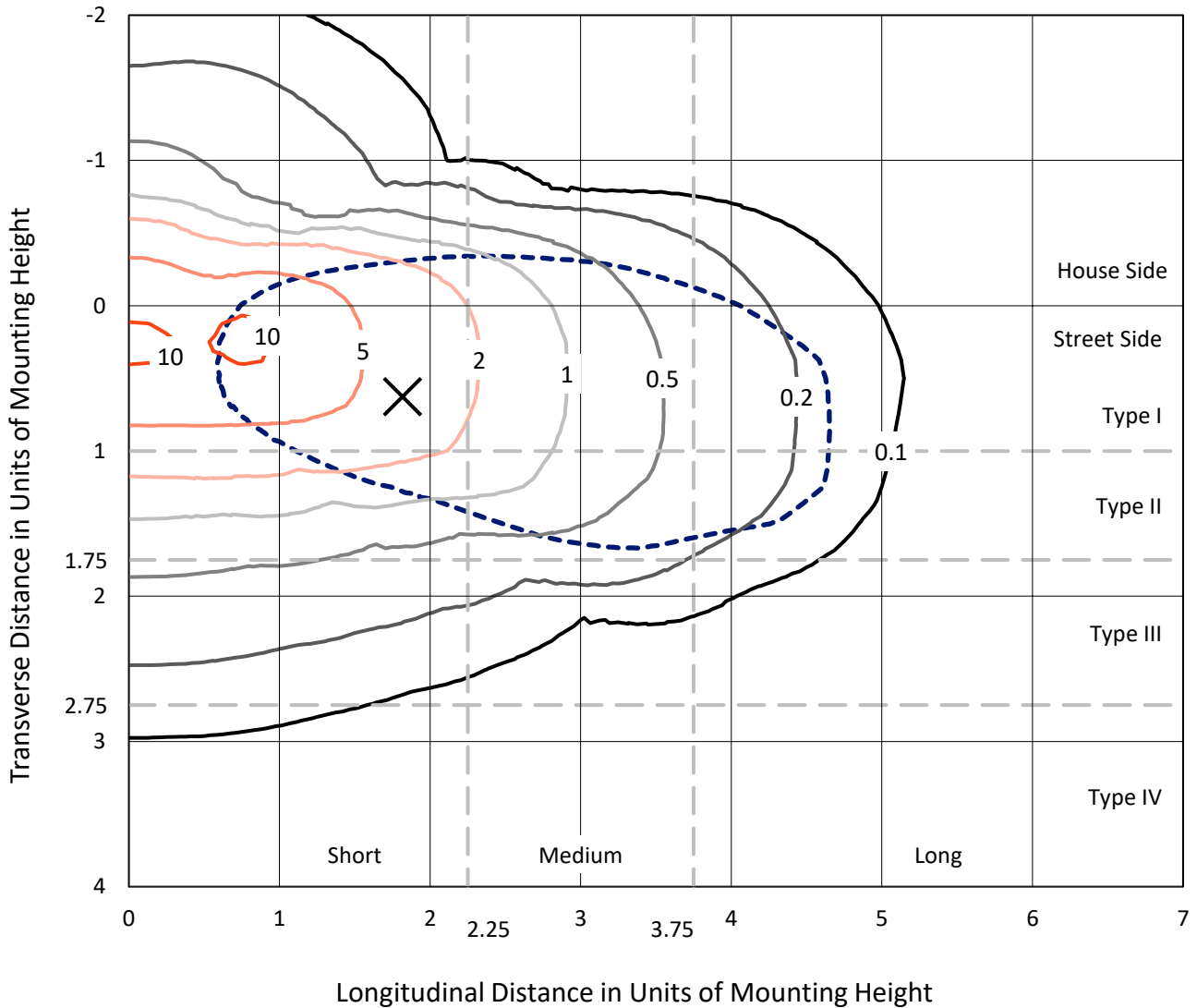
Input Watts (W): 217  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P285751  
 CATALOG NUMBER: USSL-XL-C049-D-U-T2-BZ

### Iso-Footcandle Lines of Horizontal Illumination

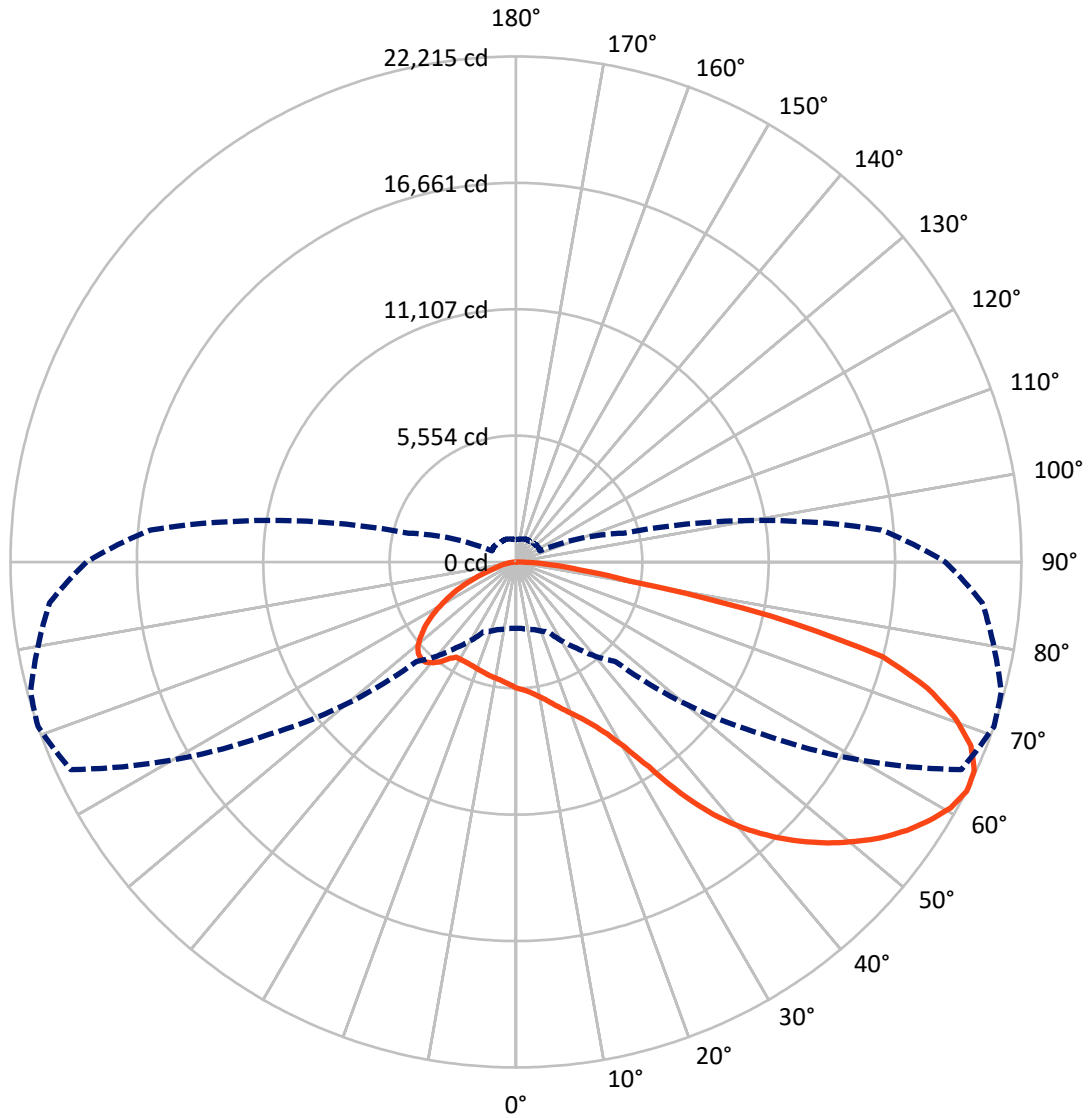
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P285751  
CATALOG NUMBER: USSL-XL-C049-D-U-T2-BZ

### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P285751  
 CATALOG NUMBER: USSL-XL-C049-D-U-T2-BZ

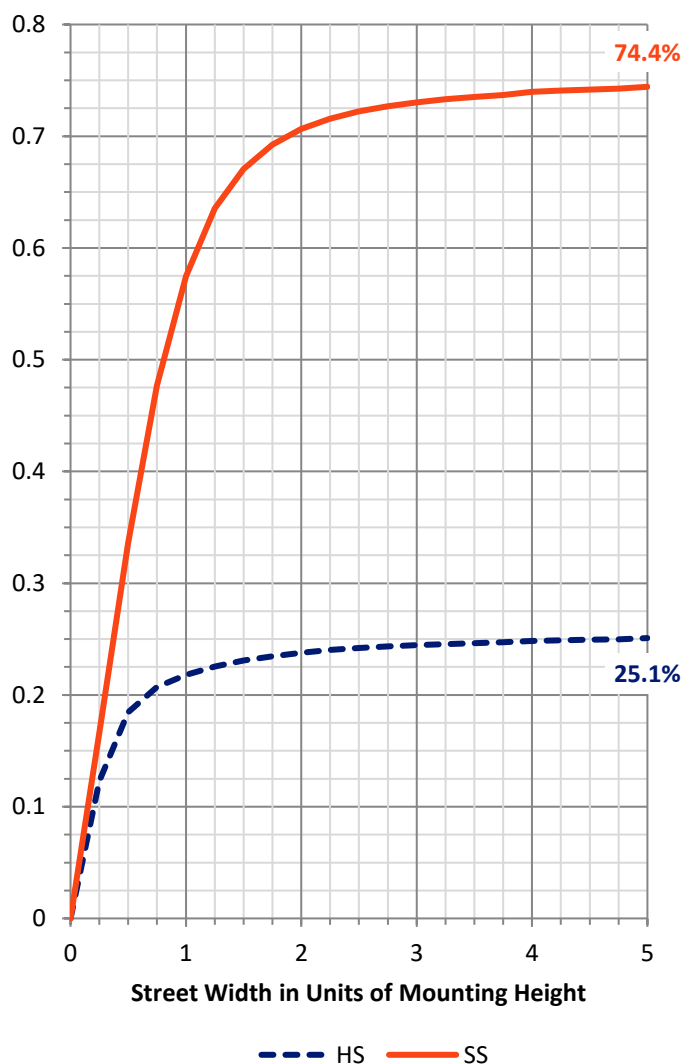
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8453.2	0.0	8453.2
	% Fixture	25.5	0.0	25.5
<b>Street Side</b>	Lumens	24648.5	0.0	24648.5
	% Fixture	74.5	0.0	74.5
<b>Total</b>	Lumens	33101.7	0.0	33101.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	534.7	1.6
10°-20°	1636.4	4.9
20°-30°	2774.0	8.4
30°-40°	4181.0	12.6
40°-50°	5743.7	17.4
50°-60°	6677.7	20.2
60°-70°	6589.0	19.9
70°-80°	4213.2	12.7
80°-90°	752.1	2.3
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°	33101.7	100.0
0°-180°	33101.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P285751

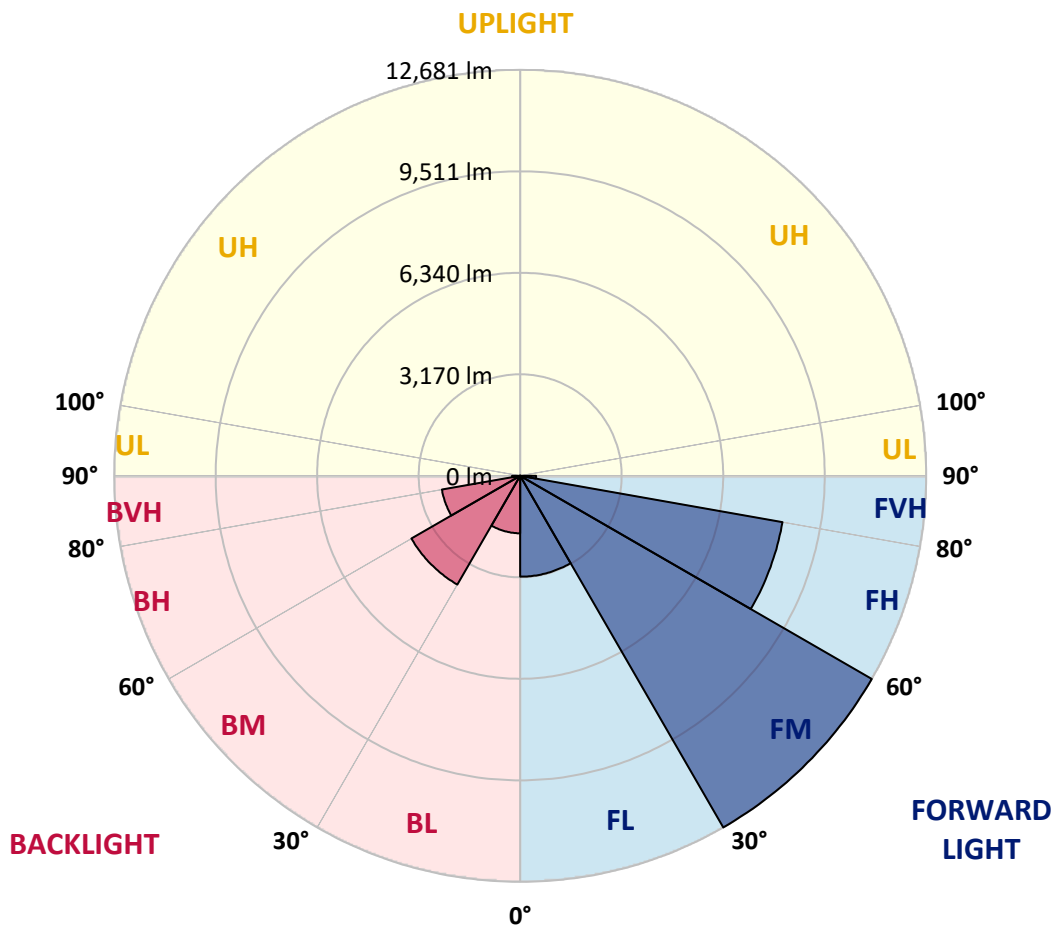
CATALOG NUMBER: USSL-XL-C049-D-U-T2-BZ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3150.5	9.5			
FM (30°-60°)	12680.7	38.3			
FH (60°-80°)	8320.4	25.1			G4/12000
FVH (80°-90°)	497.0	1.5			G3/500
BL (0°-30°)	1794.5	5.4	B3/2500		
BM (30°-60°)	3921.8	11.8	B3/5000		
BH (60°-80°)	2481.8	7.5	B3/2500		G3/2500
BVH (80°-90°)	255.1	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





REPORT NUMBER: P285751  
 CATALOG NUMBER: USSL-XL-C049-D-U-T2-BZ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5549.5	5549.5	5549.5	5549.5	5549.5	5549.5	5549.5	5549.5	5549.5	5549.5	5549.5
2.5°	5916.3	5904.9	5891.1	5867.2	5839.4	5806.7	5772.6	5695.7	5616.3	5591.1	5536.9
5°	6241.5	6220.0	6202.4	6179.7	6126.8	6060.0	5970.5	5844.5	5720.9	5681.9	5569.7
7.5°	6528.9	6504.9	6473.4	6443.1	6385.2	6299.5	6178.5	6018.4	5869.6	5801.6	5618.8
10°	6784.7	6762.1	6745.6	6711.6	6665.0	6561.6	6417.9	6217.6	6044.8	5950.4	5697.0
12.5°	7068.3	7049.4	7015.4	6976.3	6914.6	6814.9	6671.3	6453.2	6269.2	6154.5	5816.7
15°	7357.0	7344.4	7283.8	7261.2	7191.8	7077.2	6949.9	6725.5	6537.7	6395.2	5988.1
17.5°	7612.8	7603.9	7566.2	7539.7	7483.0	7354.4	7223.3	7017.9	6826.3	6644.8	6178.5
20°	7776.7	7789.2	7781.7	7776.7	7772.9	7667.0	7537.2	7325.4	7132.6	6952.3	6382.6
22.5°	7929.1	7934.2	7954.3	8001.0	8067.9	8021.2	7881.3	7685.9	7489.3	7273.8	6647.4
25°	7977.0	7980.8	8058.9	8200.1	8387.9	8408.1	8293.4	8162.3	7948.1	7736.3	7010.3
27.5°	8016.1	8026.2	8124.6	8371.5	8701.8	8797.6	8755.9	8713.1	8561.9	8340.0	7498.2
30°	8004.8	8007.3	8169.9	8487.5	8951.4	9209.7	9272.7	9479.4	9441.6	9290.3	8314.8
32.5°	7796.8	7777.9	8013.6	8490.0	9146.7	9623.2	9914.3	10502.9	10726.0	10766.4	9948.3
35°	7373.3	7373.3	7726.2	8391.8	9287.9	10031.5	10645.3	11748.1	12500.7	12520.8	11501.1
37.5°	7020.5	7043.1	7438.9	8207.8	9353.4	10446.2	11483.5	13270.7	14064.8	13996.7	12798.1
40°	6668.8	6696.4	7102.4	7956.9	9314.3	10804.1	12296.4	14722.8	15383.2	15226.8	13903.5
42.5°	6279.3	6300.7	6681.4	7600.2	9179.5	11065.0	13169.9	15961.7	16487.3	16296.9	14911.7
45°	5889.9	5926.4	6269.2	7121.3	8916.1	11221.4	13918.6	17085.9	17512.0	17292.7	15829.3
47.5°	5316.4	5457.5	5857.1	6648.6	8438.4	11209.9	14582.8	18095.6	18457.3	18224.1	16656.1
50°	4150.5	4233.7	5114.7	6220.0	7808.2	10984.4	15107.2	18996.7	19306.8	19100.0	17491.8
52.5°	3769.9	3792.5	4077.4	5694.5	7109.9	10538.2	15495.3	19829.9	20132.4	19895.4	18248.1
55°	3574.5	3587.1	3727.0	4655.9	6517.5	9716.4	15671.8	20599.9	20828.1	20560.9	18888.4
57.5°	3308.6	3347.6	3542.9	3969.0	5911.3	8554.3	15443.7	21204.9	21433.1	21143.2	19500.9
60°	3112.0	3135.8	3303.5	3633.8	5209.2	7195.7	14654.6	21642.3	21949.8	21682.6	20069.3
62.5°	2917.8	2931.7	3072.9	3390.5	4605.5	6184.7	13181.2	21591.9	22214.6	22080.9	20573.5
63°	2877.5	2890.1	3031.2	3346.3	4516.0	5978.0	12871.2	21528.9	22214.6	22121.3	20636.5
65°	2698.5	2713.7	2853.6	3140.9	4141.7	5458.8	11487.3	21136.8	22135.1	22179.3	20726.0
67.5°	2432.6	2457.8	2573.8	2824.5	3579.5	4826.0	9434.1	20727.2	21565.4	21659.9	20230.6
70°	2118.7	2123.7	2263.6	2474.1	3017.4	4105.1	7272.5	19484.5	20452.5	20494.0	19072.4
72.5°	1784.8	1798.5	1924.7	2102.3	2503.2	3399.3	5199.1	17179.2	18897.2	19131.6	17132.5
75°	1557.8	1569.2	1675.1	1799.8	2078.4	2679.6	3477.4	12527.1	16659.9	16920.9	14819.7
77.5°	1304.5	1312.1	1423.0	1508.7	1689.0	2021.7	2401.1	6609.5	11474.7	12863.6	11578.0
80°	928.9	930.2	1041.1	1107.9	1223.9	1242.7	1526.4	3517.8	5049.2	6525.1	7651.8
82.5°	201.7	289.9	436.1	548.3	613.8	516.8	751.2	1927.1	2789.2	3330.0	4147.9
85°	87.0	119.8	230.6	253.3	168.8	186.5	305.0	1027.3	1594.4	1898.2	2135.1
87.5°	16.4	21.4	59.2	79.4	49.2	51.7	61.8	329.0	558.4	655.4	731.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P285751  
 CATALOG NUMBER: USSL-XL-C049-D-U-T2-BZ

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5549.5	5549.5	5549.5	5549.5	5549.5	5549.5	5549.5	5549.5	5549.5	5549.5	5549.5
2.5°	5504.2	5489.0	5438.7	5404.5	5383.1	5355.5	5320.2	5273.5	5259.6	5226.9	5253.3
5°	5508.0	5467.6	5361.7	5284.9	5215.6	5155.0	5084.4	5017.7	4992.4	4948.4	4965.9
7.5°	5525.6	5457.5	5293.7	5176.4	5073.1	4991.2	4892.8	4810.9	4782.0	4731.5	4740.4
10°	5572.2	5466.3	5240.8	5098.3	4955.9	4836.1	4721.4	4609.3	4558.8	4514.8	4536.2
12.5°	5654.1	5499.1	5216.8	5034.0	4845.0	4698.7	4531.2	4387.5	4316.9	4260.2	4279.0
15°	5777.6	5562.1	5189.1	4942.0	4713.9	4523.5	4318.1	4136.6	4057.2	4013.1	4034.5
17.5°	5903.7	5654.1	5172.6	4829.9	4556.3	4309.3	4111.5	3940.0	3795.1	3762.3	3774.9
20°	6052.5	5748.7	5185.2	4711.4	4371.0	4078.6	3844.3	3729.5	3541.8	3476.2	3480.0
22.5°	6249.1	5896.1	5196.6	4595.4	4150.5	3824.0	3550.6	3437.1	3256.9	3140.9	3146.0
25°	6531.4	6079.0	5223.1	4488.3	3933.7	3544.2	3227.9	3038.8	2926.6	2779.2	2780.4
27.5°	6918.3	6329.7	5276.1	4387.5	3703.1	3222.8	2835.9	2624.1	2525.8	2428.8	2416.1
30°	7578.8	6744.4	5354.2	4276.5	3429.5	2834.6	2422.5	2237.2	2154.0	2074.6	2065.7
32.5°	8972.8	7751.5	5462.5	4136.6	3134.7	2393.5	2056.9	1910.8	1793.6	1715.4	1726.8
35°	10403.3	9013.1	5921.3	3970.3	2801.8	2007.8	1782.2	1600.7	1450.7	1390.3	1394.0
37.5°	11628.5	10156.3	6610.8	3790.0	2433.8	1759.5	1506.2	1331.0	1211.3	1180.9	1218.8
40°	12648.1	11095.2	7164.1	3599.7	2046.9	1550.3	1227.6	1131.9	1054.9	1046.1	1080.1
42.5°	13612.3	11943.5	7629.2	3380.3	1686.4	1280.6	1019.6	1042.3	1031.0	1029.7	1034.8
45°	14488.3	12730.0	7888.8	3054.0	1431.8	1048.7	962.9	1048.7	1067.5	1065.0	1051.2
47.5°	15286.1	13448.4	8065.3	2581.3	1212.5	983.1	994.5	1052.5	1087.8	1094.0	1078.9
50°	16114.2	14150.5	8093.0	2009.0	1125.5	1034.8	1022.2	1014.6	1078.9	1077.6	1078.9
52.5°	16854.0	14753.0	7790.5	1561.7	1170.9	1088.9	1044.8	1000.8	1037.3	1038.6	1013.4
55°	17411.1	15247.0	7272.5	1368.8	1208.7	1134.3	1110.5	1022.2	999.5	984.3	993.2
57.5°	17985.9	15688.2	6569.2	1281.8	1220.1	1144.5	1168.4	1027.3	993.2	923.9	918.8
60°	18539.2	16044.9	5736.1	1223.9	1206.2	1139.4	1131.9	1066.3	1000.8	897.4	862.1
62.5°	18875.8	16123.0	4884.0	1167.2	1179.8	1131.9	1091.5	1095.3	1049.9	993.2	985.6
63°	18914.8	16096.5	4721.4	1153.3	1173.4	1130.6	1091.5	1097.8	1049.9	1015.9	1017.2
65°	18865.6	15789.0	4083.7	1094.0	1150.7	1110.5	1075.2	1043.6	965.5	986.9	1012.1
67.5°	18313.6	14783.2	3139.6	998.2	1100.3	1077.6	1026.0	947.9	877.3	863.4	878.4
70°	16822.5	13135.9	2224.6	850.8	1009.6	1036.1	1013.4	896.1	825.6	812.9	843.3
72.5°	14753.0	11405.4	1527.6	680.6	845.7	964.2	957.9	863.4	800.3	763.8	778.9
75°	12418.7	9199.6	1067.5	573.5	651.6	868.4	908.8	835.6	787.7	753.7	748.7
77.5°	9561.4	6948.6	839.4	490.3	538.2	703.3	835.6	829.4	888.6	1048.7	1013.4
80°	6513.7	4620.6	605.0	368.0	428.5	492.9	719.7	855.8	1124.2	660.4	647.8
82.5°	3786.3	2714.9	378.1	244.5	255.9	335.2	451.2	903.7	752.4	297.4	375.6
85°	1828.9	1182.2	189.1	168.8	117.2	126.0	209.2	842.0	533.1	132.4	26.5
87.5°	583.6	287.3	20.1	15.2	17.6	25.2	99.5	514.3	313.8	113.4	16.4
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)