

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: P285830

Luminaire Tested: **USSL-XL-C047-D-U-T4-BZ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285830  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-XL-C047-D-U-T4-BZ  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27661.3 lumens  
Efficiency: N/A  
Efficacy: 157.2 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

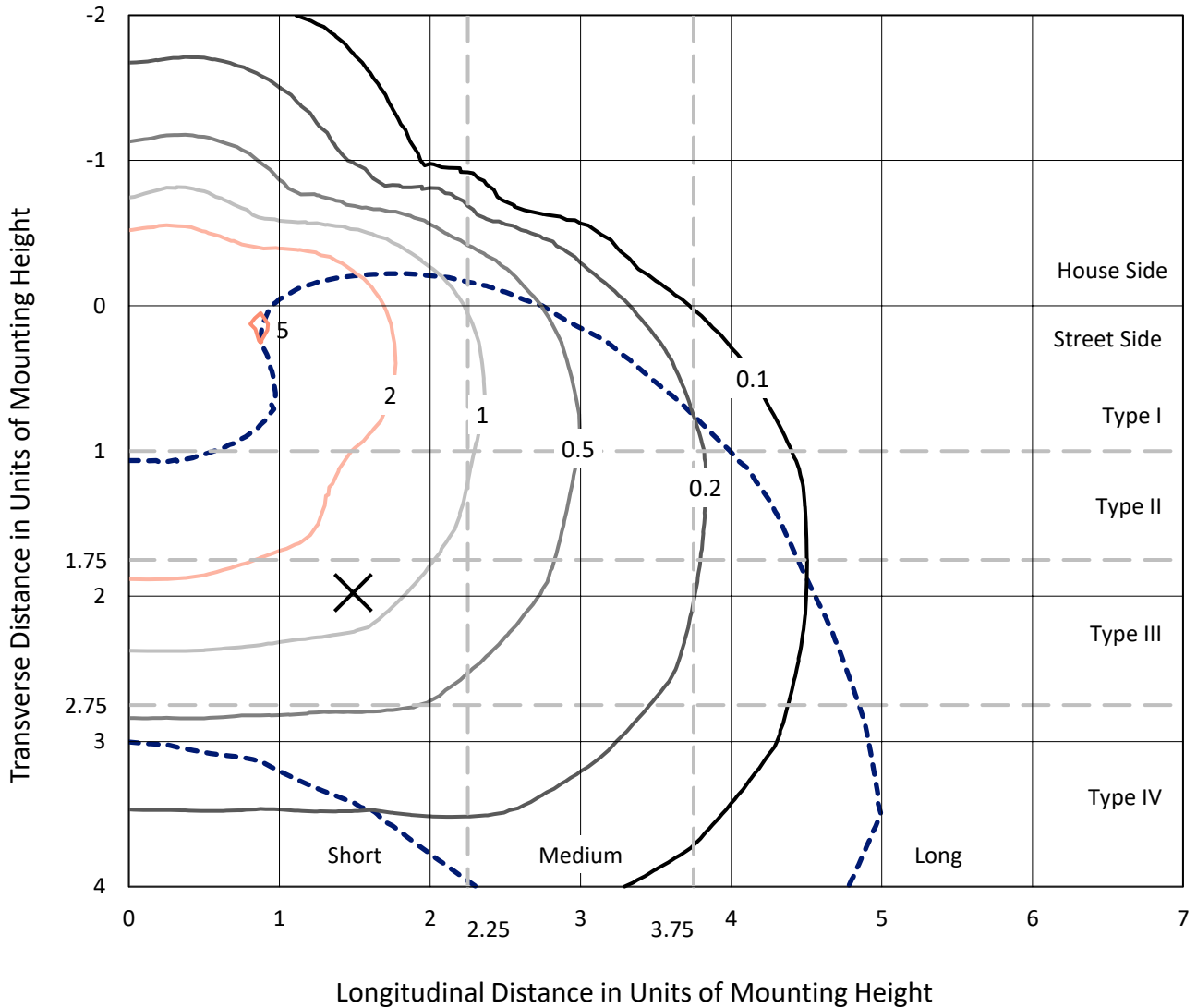
Input Watts (W): 176  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

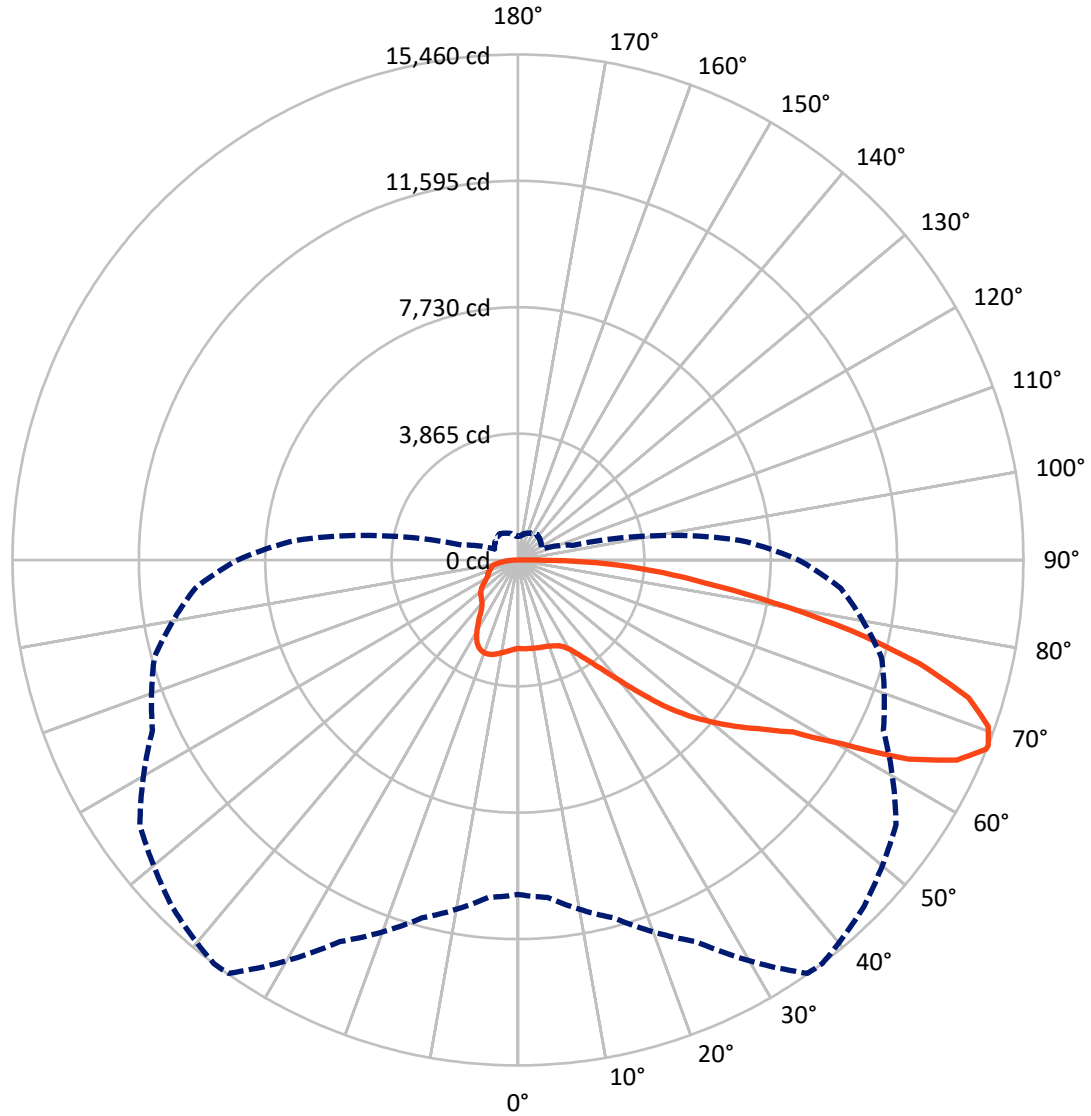
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

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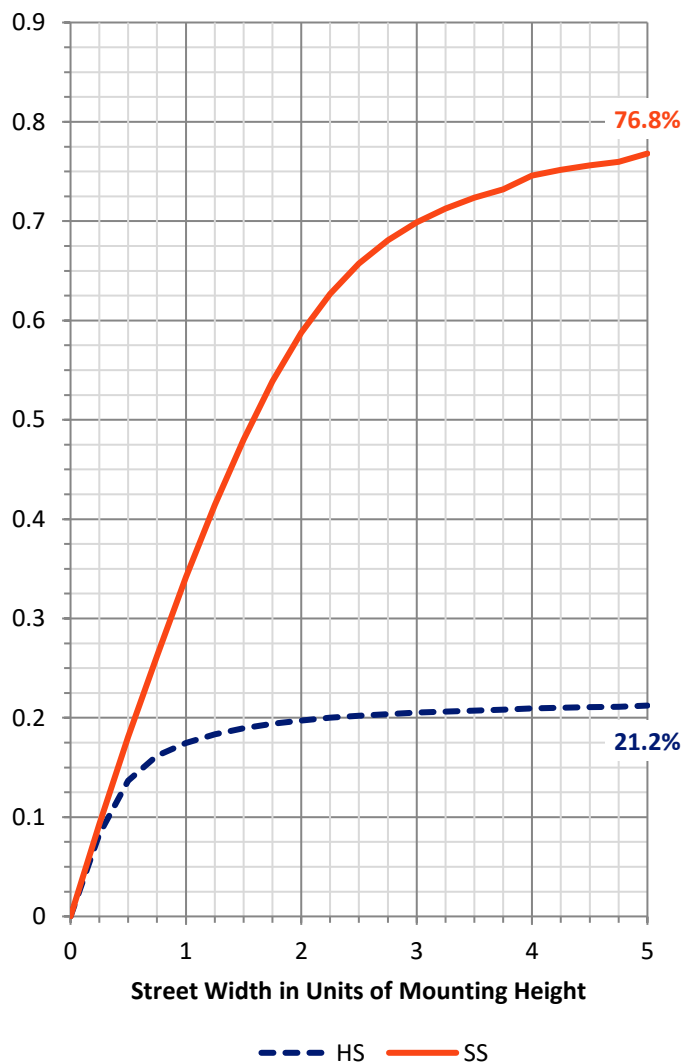
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5972.9	0.0	5972.9
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	21688.4	0.0	21688.4
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	27661.3	0.0	27661.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.7	0.9
10°-20°	816.5	3.0
20°-30°	1394.6	5.0
30°-40°	2221.8	8.0
40°-50°	3853.3	13.9
50°-60°	5585.6	20.2
60°-70°	7044.0	25.5
70°-80°	5219.6	18.9
80°-90°	1263.4	4.6
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°	27661.3	100.0
0°-180°	27661.3	100.0

**Coefficient of Utilization**



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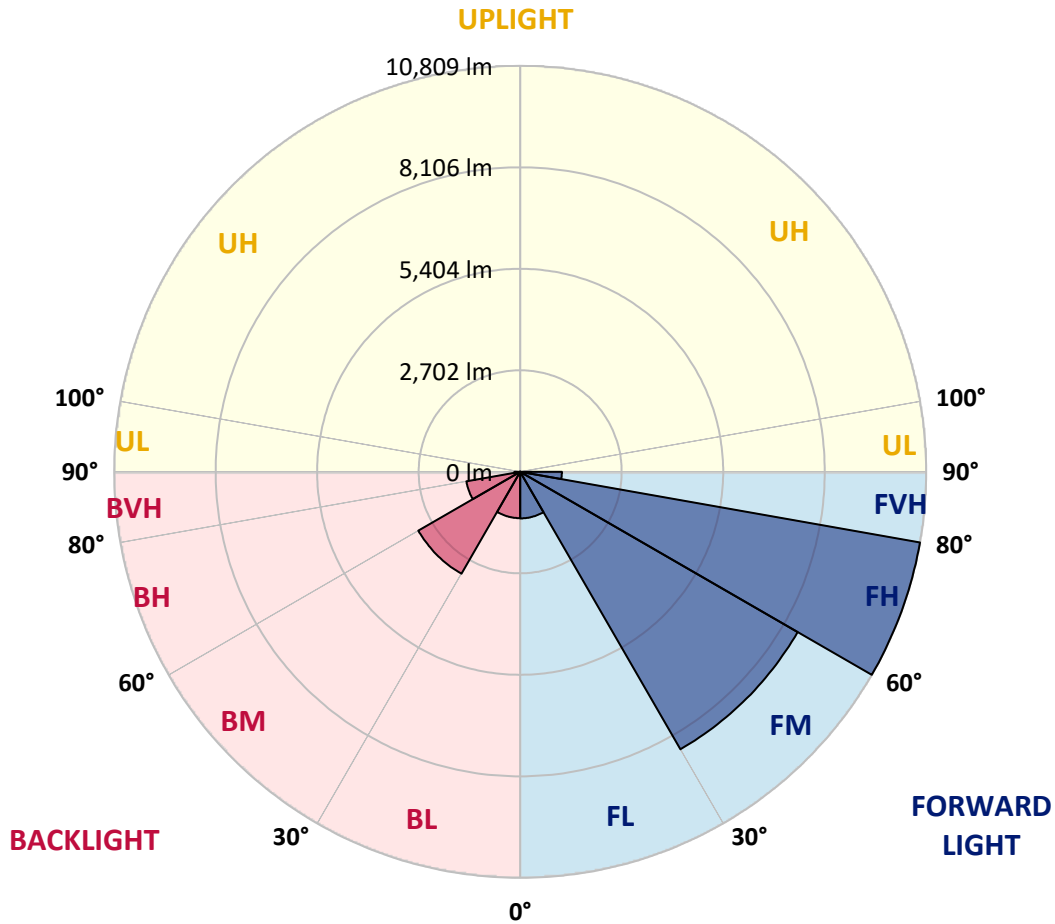
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1240.1	4.5			
FM (30°-60°)	8529.5	30.8			
FH (60°-80°)	10808.6	39.1			G4/12000
FVH (80°-90°)	1110.2	4.0			G5
BL (0°-30°)	1233.6	4.5	B3/2500		
BM (30°-60°)	3131.1	11.3	B3/5000		
BH (60°-80°)	1455.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	153.1	0.6			G2/225
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°	37°	45°	55°	65°	75°	85°
0°	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7
2.5°	2703.8	2711.2	2713.3	2709.1	2713.3	2717.6	2708.0	2707.0	2702.7	2685.8	2687.9
5°	2704.9	2714.4	2715.5	2712.3	2719.7	2723.9	2719.7	2715.5	2711.2	2686.8	2692.1
7.5°	2704.9	2712.3	2714.4	2712.3	2722.9	2730.3	2730.3	2733.5	2733.5	2705.9	2710.2
10°	2695.3	2701.7	2704.9	2710.2	2728.2	2738.8	2745.1	2760.0	2768.5	2749.4	2750.4
12.5°	2651.9	2657.2	2667.8	2698.5	2740.9	2753.6	2771.6	2798.1	2819.3	2819.3	2821.5
15°	2618.0	2623.3	2643.4	2684.7	2749.4	2766.3	2801.3	2845.8	2885.0	2906.2	2923.2
17.5°	2626.4	2632.8	2662.5	2697.4	2762.1	2779.1	2828.9	2893.5	2958.2	3003.8	3037.7
20°	2652.9	2657.2	2691.1	2731.4	2800.3	2811.9	2860.7	2940.2	3030.3	3105.5	3160.6
22.5°	2728.2	2726.1	2753.6	2769.5	2840.5	2851.1	2907.3	2988.9	3105.5	3218.9	3299.5
25°	2790.7	2800.3	2822.5	2835.2	2893.5	2903.1	2973.0	3063.1	3197.7	3344.0	3473.3
27.5°	2859.6	2868.1	2890.3	2919.0	3000.6	3005.9	3054.6	3165.9	3315.4	3494.5	3701.2
30°	3015.4	3014.4	3036.6	3067.4	3177.6	3187.1	3232.7	3347.2	3486.0	3709.6	3958.7
32.5°	3284.6	3282.5	3285.7	3328.1	3447.9	3470.1	3528.4	3680.0	3853.8	4070.0	4346.6
35°	3836.8	3814.6	3772.2	3738.3	3806.1	3831.5	3958.7	4146.3	4456.9	4881.9	5224.2
37.5°	4749.4	4714.4	4571.3	4377.4	4299.0	4295.8	4384.8	4669.9	5153.2	6005.4	6314.9
40°	5623.8	5624.9	5430.9	5168.1	4923.2	4910.5	4859.6	5212.6	5906.8	7059.9	7205.1
42.5°	6452.6	6447.3	6221.6	5981.0	5688.5	5650.3	5501.9	5773.3	6659.2	7927.9	7956.6
45°	7199.8	7182.8	6940.1	6785.4	6534.2	6457.9	6260.8	6346.7	7364.1	8624.3	8523.6
47.5°	7921.6	7904.6	7601.5	7452.1	7231.6	7168.0	6959.2	6997.4	8038.2	9204.1	8982.5
50°	8666.7	8661.4	8222.6	8077.4	7843.2	7816.7	7690.5	7718.1	8741.9	9686.3	9409.7
52.5°	9549.6	9412.9	8920.0	8642.3	8475.9	8474.9	8333.9	8404.9	9519.9	10116.6	9706.5
55°	10497.1	10324.4	9819.9	9420.3	9134.1	9138.4	8919.0	9033.4	10203.6	10501.4	9990.5
57.5°	11173.4	11137.3	10986.8	10587.2	9995.8	9925.9	9588.8	9678.9	10803.5	10899.9	10195.1
60°	11804.0	11957.7	12058.4	11931.2	11633.4	11430.9	10496.1	10361.5	11332.3	11250.7	10302.1
62.5°	12201.5	12281.0	12750.5	12925.4	13392.8	13408.7	12290.5	11188.2	11782.8	11471.2	10349.8
65°	11763.7	11881.4	12659.3	13343.0	14676.3	14752.6	14281.0	12567.1	12142.1	11547.5	10259.7
67.5°	10542.7	10665.7	11600.5	13002.7	15386.5	15438.4	14948.7	13998.0	12321.2	11531.6	9995.8
68°	10230.0	10361.5	11336.6	12874.5	15435.2	15459.6	14975.2	14116.7	12332.9	11513.6	9910.0
70°	8935.9	9065.2	10053.0	12072.2	15242.3	15258.2	14807.8	14241.8	12272.5	11358.8	9345.0
72.5°	7019.6	7150.0	7929.0	10240.6	14273.6	14412.4	14182.4	13885.6	12017.0	10755.8	8012.7
75°	4974.1	5107.7	5918.5	8014.9	12305.3	12691.1	13150.1	13203.1	11061.0	9236.9	5969.4
77.5°	3507.2	3616.4	4318.0	5991.6	9931.2	10430.4	11386.4	11464.8	9263.4	7048.2	3149.0
80°	2276.7	2369.9	2998.5	4391.2	7507.2	7938.5	8988.9	8664.6	6582.9	3832.6	548.0
82.5°	1374.7	1444.6	1909.9	3037.7	5493.5	5780.7	6208.9	5202.0	3054.6	541.6	191.8
85°	788.6	836.3	1179.7	1951.3	3870.8	4115.6	4174.9	2611.6	574.5	149.4	108.1
87.5°	403.8	428.2	632.8	1198.7	2287.3	2392.2	2094.4	934.8	114.5	66.8	54.1
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°	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7
2.5°	2677.3	2684.7	2690.0	2708.0	2727.1	2736.7	2727.1	2742.0	2747.3	2743.0	2736.7
5°	2683.7	2695.3	2703.8	2739.8	2761.0	2776.9	2766.3	2787.5	2795.0	2786.5	2786.5
7.5°	2701.7	2717.6	2731.4	2779.1	2803.4	2824.6	2818.3	2833.1	2839.5	2828.9	2835.2
10°	2749.4	2765.3	2783.3	2842.7	2858.6	2878.7	2867.0	2878.7	2880.8	2873.4	2878.7
12.5°	2832.1	2842.7	2877.6	2938.0	2940.2	2945.5	2921.1	2898.8	2889.3	2875.5	2885.0
15°	2938.0	2957.1	3004.8	3055.7	3041.9	3030.3	2969.8	2897.8	2852.2	2818.3	2816.2
17.5°	3055.7	3089.6	3149.0	3181.8	3150.0	3097.0	2995.3	2873.4	2763.2	2702.7	2683.7
20°	3176.5	3229.5	3295.2	3301.6	3247.5	3145.8	2991.0	2810.9	2628.6	2516.2	2488.6
22.5°	3323.8	3392.7	3452.1	3420.3	3312.2	3162.7	2951.8	2700.6	2450.5	2279.8	2254.4
25°	3518.9	3586.7	3597.3	3504.0	3336.6	3130.9	2861.7	2536.3	2219.4	2007.5	1987.3
27.5°	3754.2	3790.2	3721.3	3547.5	3306.9	3035.6	2708.0	2308.5	1961.9	1777.5	1746.7
30°	4014.9	4002.2	3812.5	3548.5	3220.0	2873.4	2474.9	2049.8	1758.4	1599.4	1569.7
32.5°	4345.6	4261.9	3904.7	3500.8	3076.9	2655.0	2200.4	1843.2	1618.5	1456.3	1427.7
35°	5002.7	4748.4	4029.7	3425.6	2887.2	2393.3	1959.8	1693.7	1498.7	1312.2	1285.7
37.5°	6002.2	5475.4	4255.5	3342.9	2676.2	2125.1	1775.3	1577.1	1404.4	1205.1	1163.8
40°	6878.6	6278.8	4615.9	3265.6	2461.1	1921.6	1669.3	1521.0	1352.4	1151.1	1108.7
42.5°	7551.7	6922.1	5028.2	3173.3	2236.4	1771.1	1624.8	1513.5	1346.1	1151.1	1111.8
45°	8095.4	7453.1	5394.9	3072.7	2019.1	1652.4	1584.6	1499.8	1333.4	1144.7	1107.6
47.5°	8524.7	7849.5	5684.2	2957.1	1793.4	1571.8	1543.2	1452.1	1300.5	1125.6	1088.5
50°	8896.7	8133.6	5846.4	2821.5	1593.0	1508.2	1484.9	1375.8	1234.8	1069.4	1045.1
52.5°	9156.4	8364.6	5907.9	2765.3	1449.9	1436.2	1405.4	1298.4	1163.8	1002.7	975.1
55°	9351.4	8483.3	5857.0	2637.0	1306.9	1324.9	1311.1	1239.0	1114.0	961.3	933.8
57.5°	9451.0	8522.5	5711.8	2153.7	1171.2	1192.4	1201.9	1206.2	1106.5	973.0	947.6
60°	9486.0	8461.1	5394.9	1537.9	1026.0	1068.4	1121.4	1137.3	1073.7	928.5	907.3
62.5°	9433.0	8301.0	4773.8	1063.1	915.8	991.0	1061.0	1056.7	988.9	862.8	834.1
65°	9226.3	7908.9	3630.2	857.5	878.7	956.0	1033.4	981.5	915.8	799.2	784.3
67.5°	8726.1	7083.2	2036.1	791.7	867.0	935.9	985.7	923.2	850.0	739.8	733.5
68°	8577.7	6840.5	1738.2	787.5	864.9	929.5	973.0	908.3	837.3	730.3	726.0
70°	7712.8	5589.9	784.3	773.7	852.2	906.2	938.0	867.0	790.7	697.4	691.1
72.5°	5959.8	3461.6	526.8	735.6	820.4	871.2	891.4	824.6	761.0	657.1	648.7
75°	3532.6	951.8	499.2	669.9	766.3	837.3	858.5	791.7	716.5	596.7	582.9
77.5°	869.1	343.4	483.3	595.7	710.1	781.1	815.1	769.5	678.3	537.4	523.6
80°	263.9	273.5	460.0	515.1	639.1	697.4	717.6	717.6	627.5	378.4	398.5
82.5°	173.8	219.4	392.2	386.9	507.7	577.6	539.5	541.6	492.9	168.5	197.1
85°	109.2	179.1	265.0	253.3	323.3	354.0	383.7	394.3	346.6	48.8	3.2
87.5°	56.2	76.3	93.3	99.6	128.2	183.4	245.9	241.7	178.1	43.5	0.0
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)