

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: P285750

Luminaire Tested: **USSL-XL-C047-D-U-T2-BZ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285750  
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-C047-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: 27836.1 lumens  
Efficiency: N/A  
Efficacy: 158.2 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

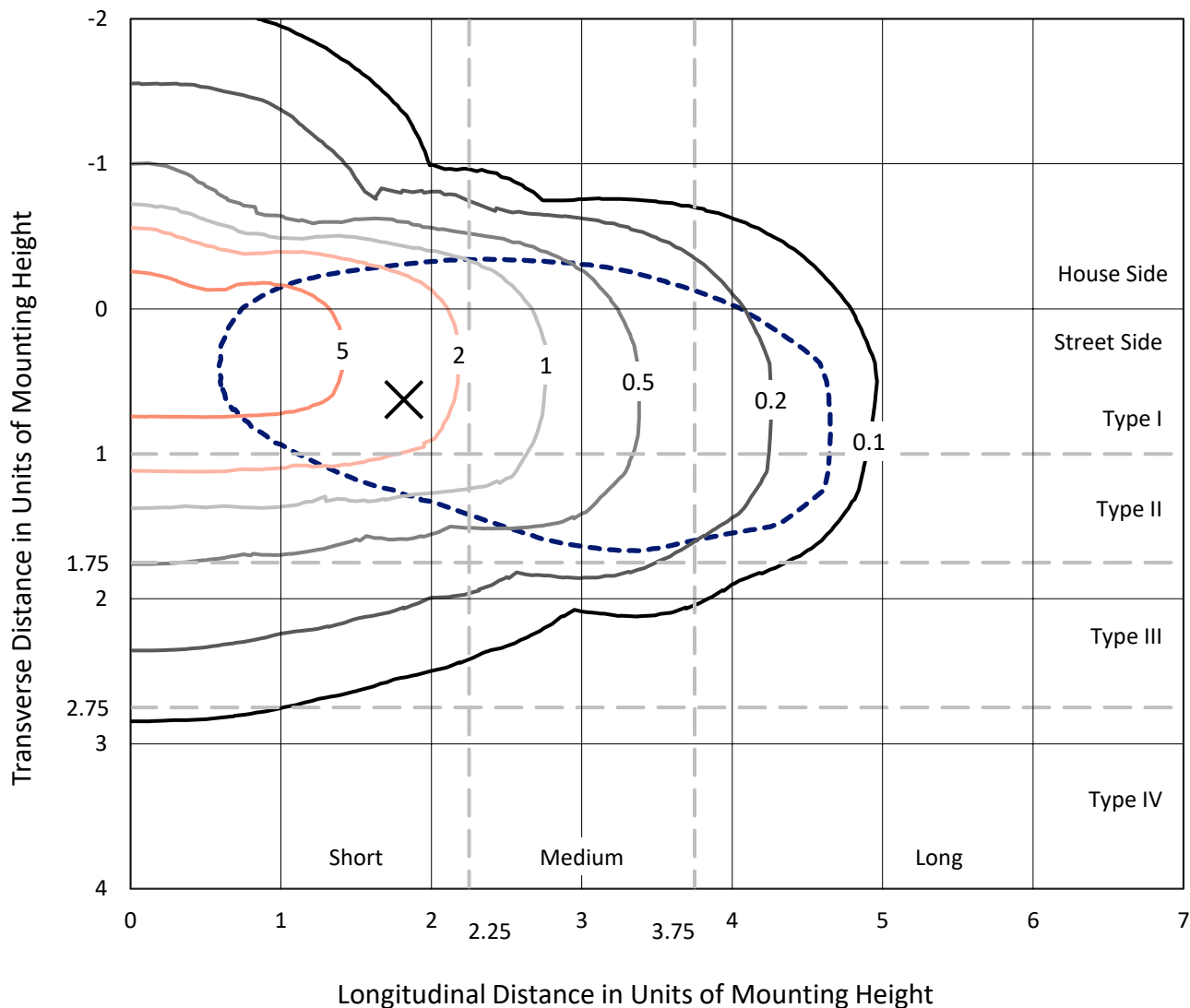
Input Watts (W): 176  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

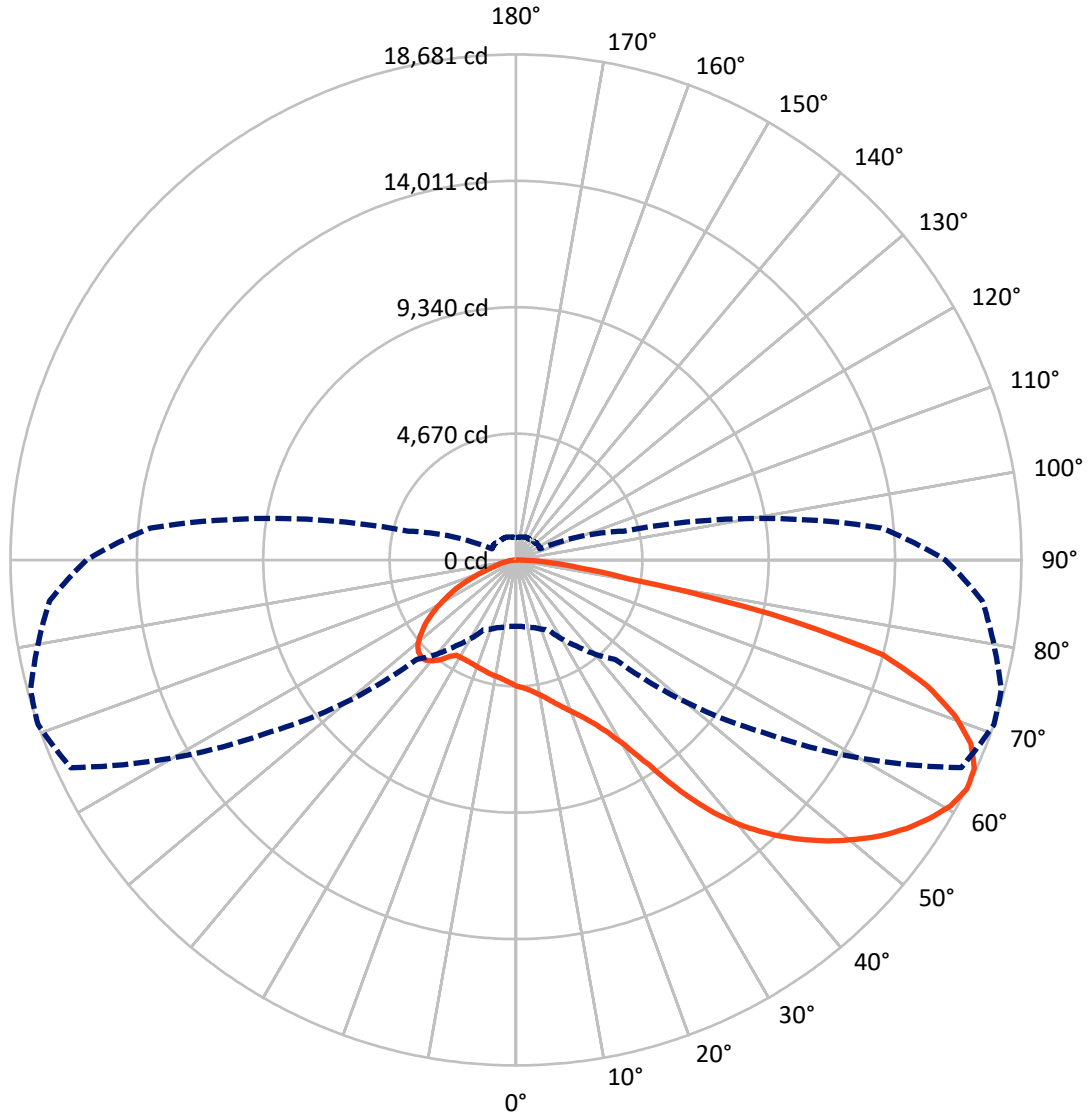
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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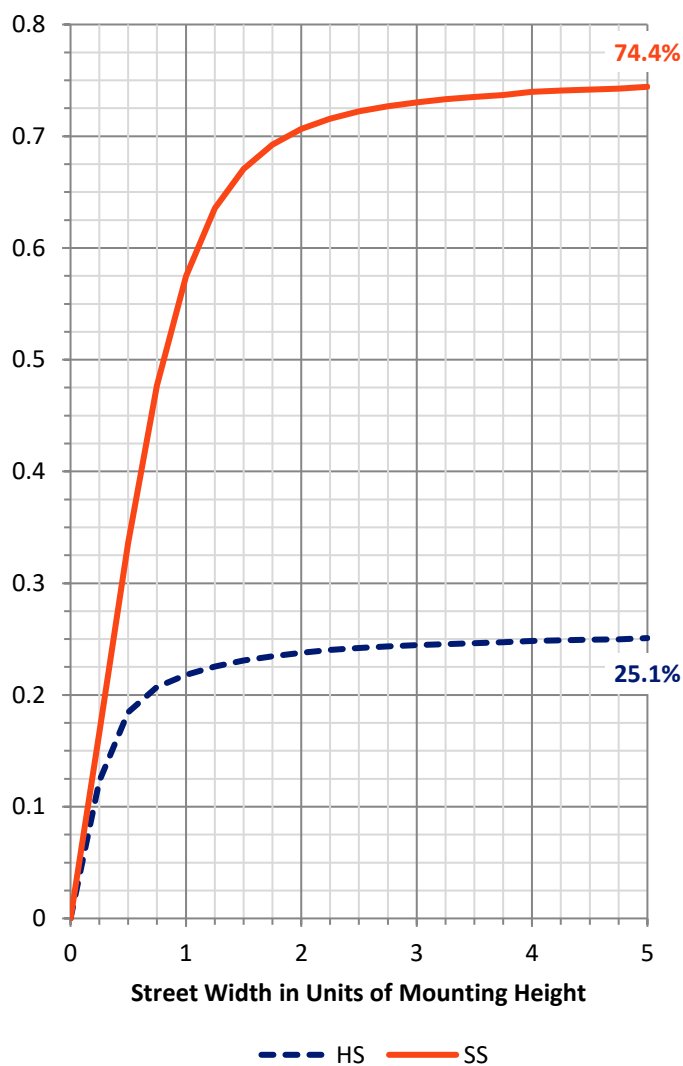
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7108.5	0.0	7108.5
	% Fixture	25.5	0.0	25.5
<b>Street Side</b>	Lumens	20727.5	0.0	20727.5
	% Fixture	74.5	0.0	74.5
<b>Total</b>	Lumens	27836.1	0.0	27836.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	449.6	1.6
10°-20°	1376.1	4.9
20°-30°	2332.7	8.4
30°-40°	3515.9	12.6
40°-50°	4830.1	17.4
50°-60°	5615.5	20.2
60°-70°	5540.9	19.9
70°-80°	3542.9	12.7
80°-90°	632.4	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°	27836.1	100.0
0°-180°	27836.1	100.0

**Coefficient of Utilization**



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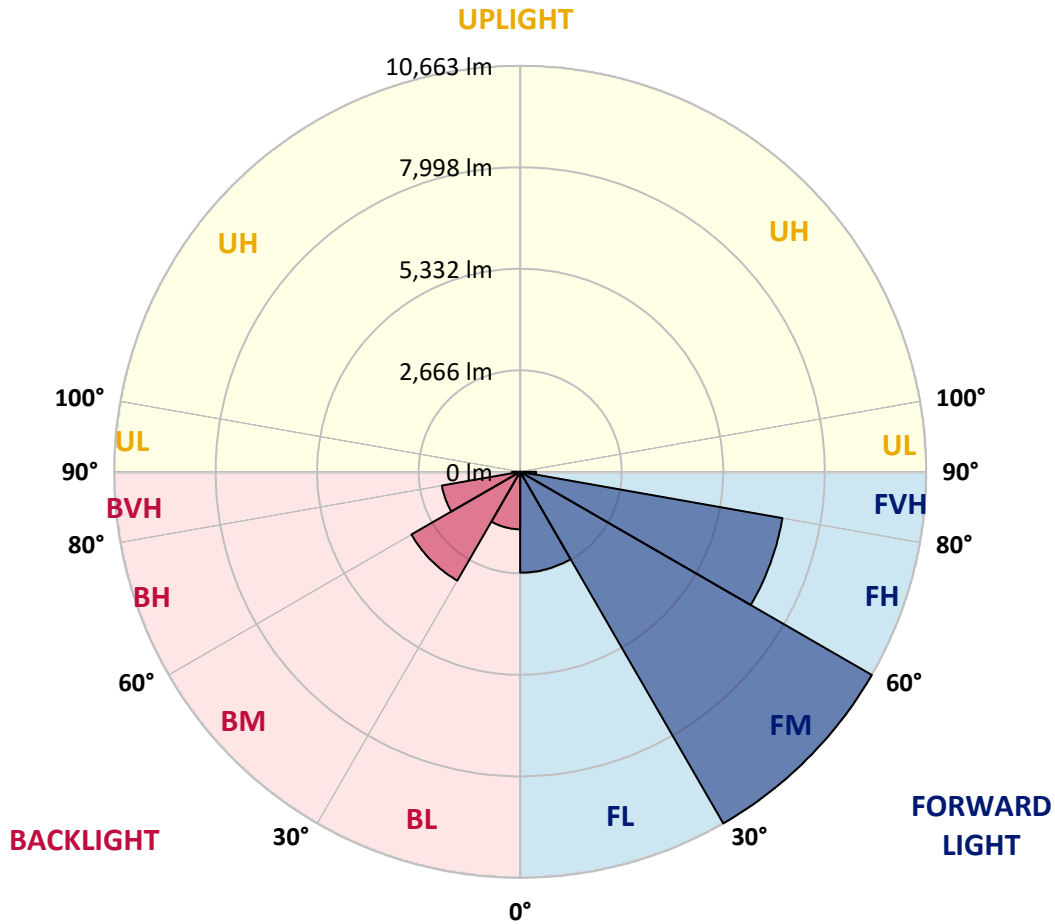
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2649.3	9.5			
FM (30°-60°)	10663.5	38.3			
FH (60°-80°)	6996.8	25.1			G3/7500
FVH (80°-90°)	417.9	1.5			G3/500
BL (0°-30°)	1509.0	5.4	B3/2500		
BM (30°-60°)	3297.9	11.8	B3/5000		
BH (60°-80°)	2087.0	7.5	B3/2500		G3/2500
BVH (80°-90°)	214.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7
2.5°	4975.2	4965.6	4954.0	4933.8	4910.5	4883.0	4854.3	4789.7	4722.9	4701.7	4656.1
5°	5248.6	5230.6	5215.8	5196.7	5152.2	5096.0	5020.7	4914.8	4810.9	4778.0	4683.7
7.5°	5490.3	5470.1	5443.6	5418.2	5369.5	5297.4	5195.6	5061.0	4936.0	4878.7	4725.0
10°	5705.4	5686.4	5672.6	5644.0	5604.8	5517.8	5397.0	5228.5	5083.3	5003.8	4790.7
12.5°	5943.9	5928.0	5899.4	5866.5	5814.6	5730.9	5610.1	5426.7	5271.9	5175.5	4891.4
15°	6186.6	6176.0	6125.2	6106.1	6047.8	5951.3	5844.3	5655.6	5497.7	5377.9	5035.6
17.5°	6401.8	6394.4	6362.6	6340.3	6292.6	6184.5	6074.3	5901.5	5740.4	5587.8	5195.6
20°	6539.6	6550.2	6543.8	6539.6	6536.4	6447.4	6338.2	6160.1	5998.0	5846.4	5367.3
22.5°	6667.8	6672.1	6689.0	6728.2	6784.4	6745.2	6627.6	6463.3	6297.9	6116.7	5589.9
25°	6708.1	6711.3	6777.0	6895.7	7053.6	7070.6	6974.1	6863.9	6683.7	6505.7	5895.2
27.5°	6741.0	6749.4	6832.1	7039.9	7317.5	7398.1	7363.1	7327.1	7199.9	7013.4	6305.3
30°	6731.4	6733.5	6870.3	7137.4	7527.4	7744.7	7797.7	7971.5	7939.7	7812.5	6992.2
32.5°	6556.5	6540.6	6738.8	7139.5	7691.7	8092.3	8337.2	8832.1	9019.7	9053.7	8365.8
35°	6200.4	6200.4	6497.2	7056.8	7810.4	8435.7	8951.9	9879.3	10512.1	10529.0	9671.6
37.5°	5903.6	5922.7	6255.5	6902.1	7865.5	8784.5	9656.7	11159.7	11827.4	11770.2	10762.2
40°	5607.9	5631.2	5972.5	6691.1	7832.7	9085.5	10340.4	12380.7	12936.1	12804.7	11691.8
42.5°	5280.4	5298.4	5618.5	6391.2	7719.3	9304.9	11074.9	13422.6	13864.6	13704.5	12539.7
45°	4952.9	4983.6	5271.9	5988.4	7497.7	9436.3	11704.5	14368.0	14726.3	14541.8	13311.3
47.5°	4470.7	4589.4	4925.4	5591.0	7096.0	9426.8	12263.0	15217.0	15521.2	15325.1	14006.6
50°	3490.3	3560.2	4301.1	5230.6	6566.1	9237.0	12704.0	15974.8	16235.5	16061.7	14709.3
52.5°	3170.2	3189.2	3428.8	4788.6	5978.9	8861.8	13030.4	16675.4	16929.8	16730.5	15345.2
55°	3005.9	3016.5	3134.1	3915.3	5480.7	8170.8	13178.8	17323.0	17514.8	17290.1	15883.7
57.5°	2782.2	2815.1	2979.4	3337.6	4970.9	7193.5	12987.0	17831.8	18023.6	17779.8	16398.8
60°	2616.9	2637.0	2778.0	3055.7	4380.6	6051.0	12323.5	18199.5	18458.2	18233.5	16876.8
62.5°	2453.7	2465.3	2584.0	2851.1	3872.9	5200.9	11084.4	18157.1	18680.7	18568.4	17300.7
63°	2419.8	2430.4	2549.1	2814.0	3797.6	5027.1	10823.7	18104.2	18680.7	18602.3	17353.7
65°	2269.2	2282.0	2399.6	2641.3	3482.8	4590.4	9659.9	17774.5	18614.0	18651.1	17429.0
67.5°	2045.6	2066.8	2164.3	2375.2	3010.1	4058.4	7933.4	17430.1	18134.9	18214.4	17012.5
70°	1781.7	1785.9	1903.6	2080.6	2537.4	3452.1	6115.6	16385.0	17199.0	17234.0	16038.4
72.5°	1500.8	1512.5	1618.5	1767.9	2105.0	2858.6	4372.1	14446.4	15891.1	16088.2	14407.2
75°	1310.0	1319.6	1408.6	1513.5	1747.8	2253.3	2924.3	10534.3	14009.8	14229.2	12462.3
77.5°	1097.0	1103.4	1196.6	1268.7	1420.3	1700.1	2019.1	5558.1	9649.3	10817.3	9736.2
80°	781.1	782.2	875.5	931.7	1029.2	1045.1	1283.5	2958.2	4246.0	5487.1	6434.7
82.5°	169.6	243.8	366.7	461.1	516.2	434.6	631.7	1620.6	2345.6	2800.3	3488.1
85°	73.1	100.7	194.0	213.0	142.0	156.9	256.5	863.8	1340.8	1596.2	1795.5
87.5°	13.8	18.0	49.8	66.8	41.3	43.5	51.9	276.6	469.5	551.1	614.7
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°	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7
2.5°	4628.6	4615.9	4573.5	4544.9	4526.8	4503.5	4473.8	4434.6	4423.0	4395.4	4417.7
5°	4631.8	4597.8	4508.8	4444.2	4385.9	4335.0	4275.6	4219.5	4198.3	4161.2	4176.0
7.5°	4646.6	4589.4	4451.6	4353.0	4266.1	4197.2	4114.5	4045.6	4021.3	3978.9	3986.3
10°	4685.8	4596.8	4407.1	4287.3	4167.5	4066.8	3970.4	3876.1	3833.7	3796.6	3814.6
12.5°	4754.7	4624.3	4386.9	4233.2	4074.3	3951.3	3810.3	3689.5	3630.2	3582.5	3598.4
15°	4858.6	4677.3	4363.6	4155.9	3964.0	3804.0	3631.2	3478.6	3411.8	3374.7	3392.7
17.5°	4964.6	4754.7	4349.8	4061.5	3831.5	3623.8	3457.4	3313.2	3191.4	3163.8	3174.4
20°	5089.6	4834.2	4360.4	3961.9	3675.7	3429.8	3232.7	3136.2	2978.3	2923.2	2926.4
22.5°	5255.0	4958.2	4370.0	3864.4	3490.3	3215.7	2985.7	2890.3	2738.8	2641.3	2645.5
25°	5492.4	5111.9	4392.2	3774.3	3307.9	2980.4	2714.4	2555.4	2461.1	2337.1	2338.1
27.5°	5817.8	5322.8	4436.7	3689.5	3114.0	2710.2	2384.8	2206.7	2124.0	2042.4	2031.8
30°	6373.2	5671.5	4502.5	3596.2	2884.0	2383.7	2037.1	1881.3	1811.4	1744.6	1737.2
32.5°	7545.4	6518.4	4593.6	3478.6	2636.0	2012.8	1729.8	1606.8	1508.2	1442.5	1452.1
35°	8748.4	7579.3	4979.4	3338.7	2356.2	1688.4	1498.7	1346.1	1219.9	1169.1	1172.2
37.5°	9778.6	8540.7	5559.2	3187.1	2046.7	1479.6	1266.6	1119.3	1018.6	993.1	1024.9
40°	10636.1	9330.3	6024.5	3027.1	1721.3	1303.7	1032.3	951.8	887.1	879.7	908.3
42.5°	11446.9	10043.6	6415.6	2842.7	1418.1	1076.9	857.5	876.5	867.0	865.9	870.2
45°	12183.6	10705.0	6633.9	2568.1	1204.0	881.8	809.8	881.8	897.7	895.6	884.0
47.5°	12854.5	11309.1	6782.3	2170.7	1019.6	826.7	836.3	885.0	914.7	920.0	907.3
50°	13550.8	11899.5	6805.6	1689.5	946.5	870.2	859.6	853.2	907.3	906.2	907.3
52.5°	14173.0	12406.1	6551.2	1313.2	984.6	915.8	878.7	841.6	872.3	873.4	852.2
55°	14641.5	12821.6	6115.6	1151.1	1016.4	953.9	933.8	859.6	840.5	827.8	835.2
57.5°	15124.8	13192.6	5524.2	1077.9	1026.0	962.4	982.5	863.8	835.2	776.9	772.7
60°	15590.1	13492.5	4823.6	1029.2	1014.3	958.1	951.8	896.7	841.6	754.6	725.0
62.5°	15873.1	13558.2	4107.1	981.5	992.1	951.8	917.9	921.1	882.9	835.2	828.8
63°	15905.9	13536.0	3970.4	969.8	986.8	950.7	917.9	923.2	882.9	854.3	855.3
65°	15864.6	13277.4	3434.1	920.0	967.7	933.8	904.1	877.6	811.9	829.9	851.1
67.5°	15400.3	12431.6	2640.2	839.4	925.3	906.2	862.8	797.0	737.7	726.0	738.8
70°	14146.5	11046.3	1870.7	715.4	849.0	871.2	852.2	753.6	694.2	683.6	709.1
72.5°	12406.1	9591.0	1284.6	572.3	711.2	810.8	805.5	726.0	673.0	642.3	655.0
75°	10443.2	7736.2	897.7	482.3	548.0	730.3	764.2	702.7	662.4	633.8	629.6
77.5°	8040.4	5843.2	705.9	412.3	452.6	591.4	702.7	697.4	747.2	881.8	852.2
80°	5477.6	3885.6	508.8	309.5	360.4	414.4	605.2	719.7	945.4	555.4	544.8
82.5°	3183.9	2283.0	318.0	205.6	215.2	281.9	379.4	759.9	632.8	250.1	315.9
85°	1537.9	994.2	159.0	142.0	98.6	106.0	175.9	708.0	448.3	111.3	22.3
87.5°	490.7	241.7	17.0	12.7	14.8	21.2	83.7	432.4	263.9	95.4	13.8
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)