

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: P285834

Luminaire Tested: **USSL-XL-C06-D-U-T4-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285834
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-C06-D-U-T4-BZ
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 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: 51478.3 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

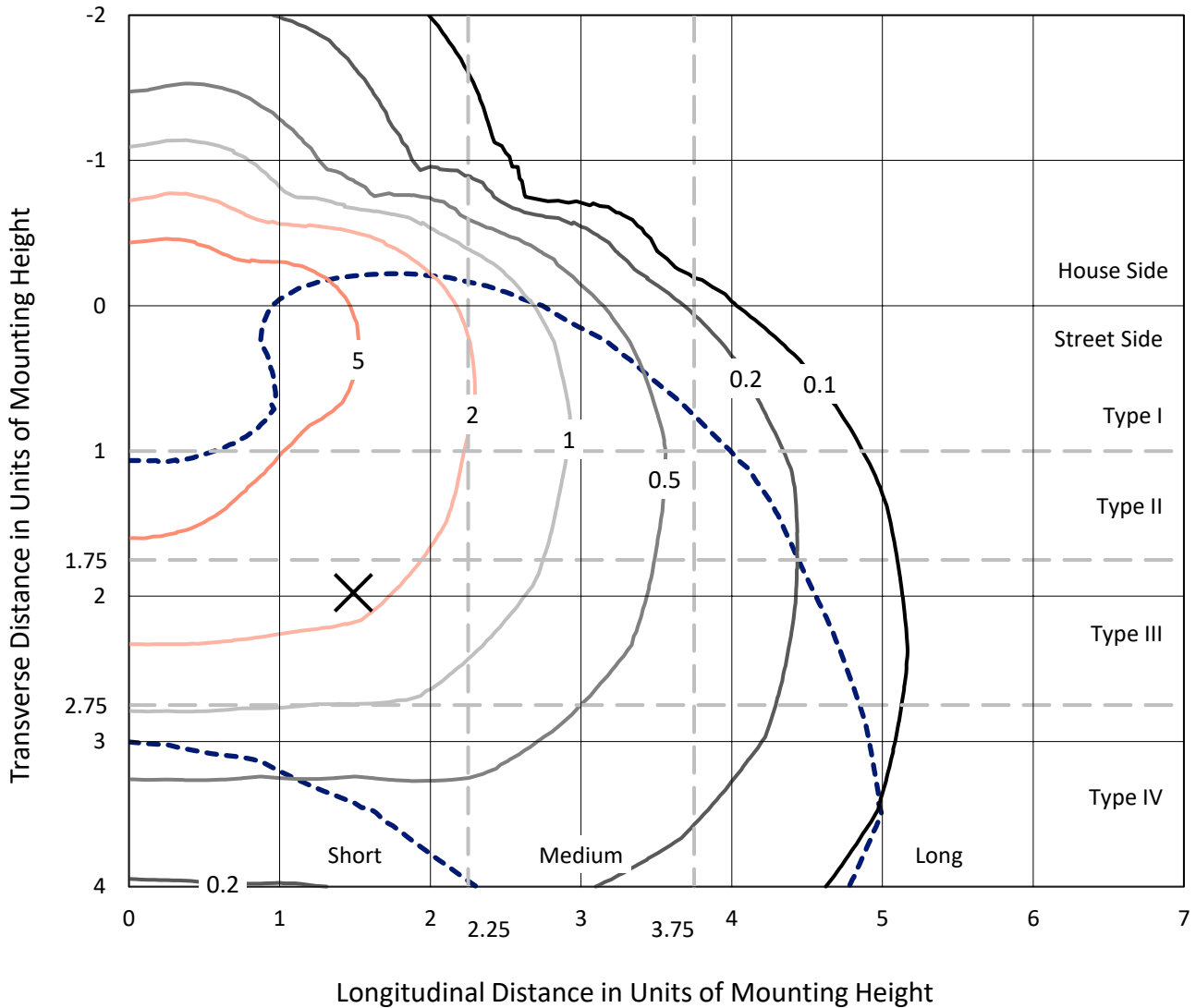
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

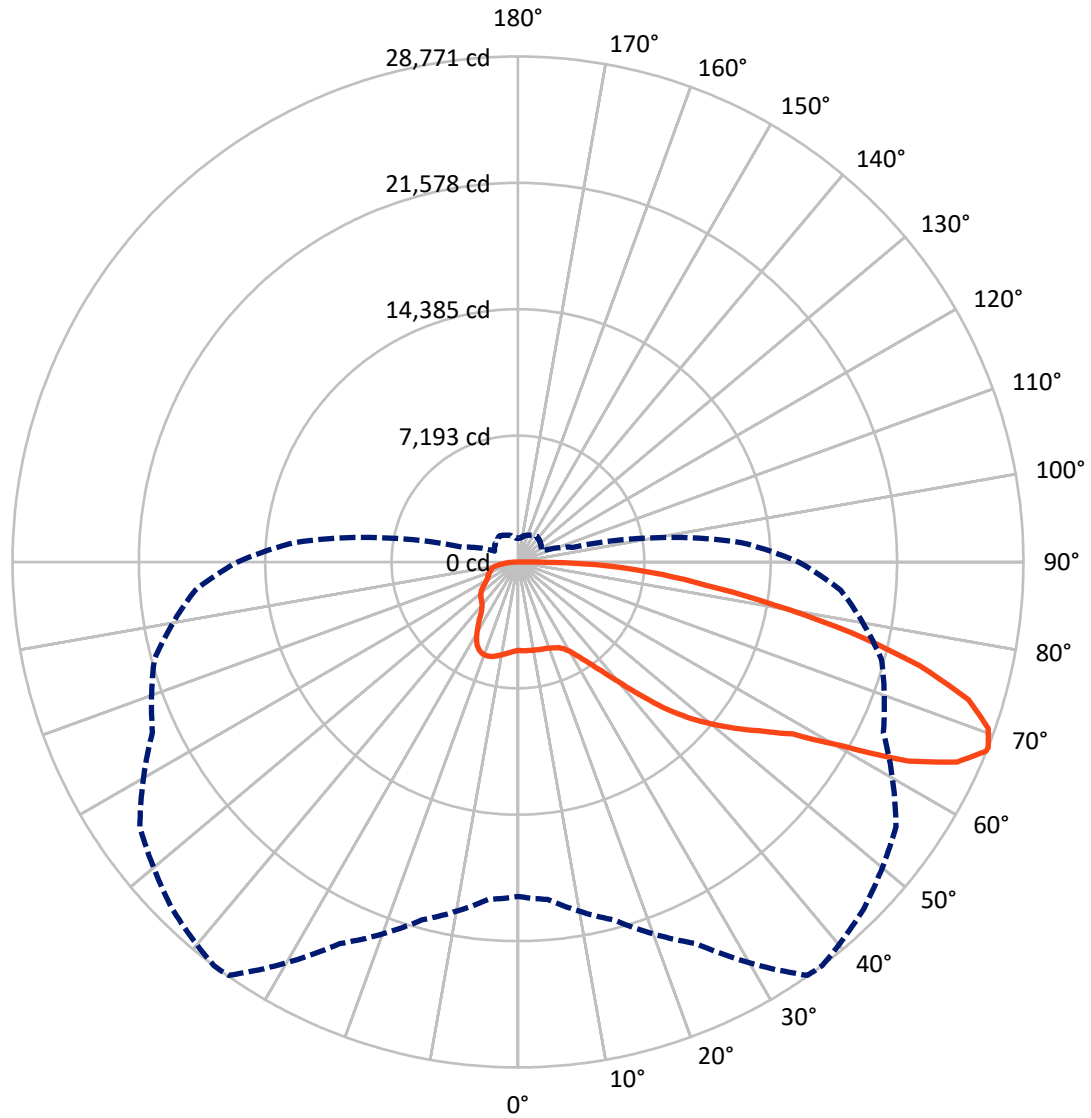
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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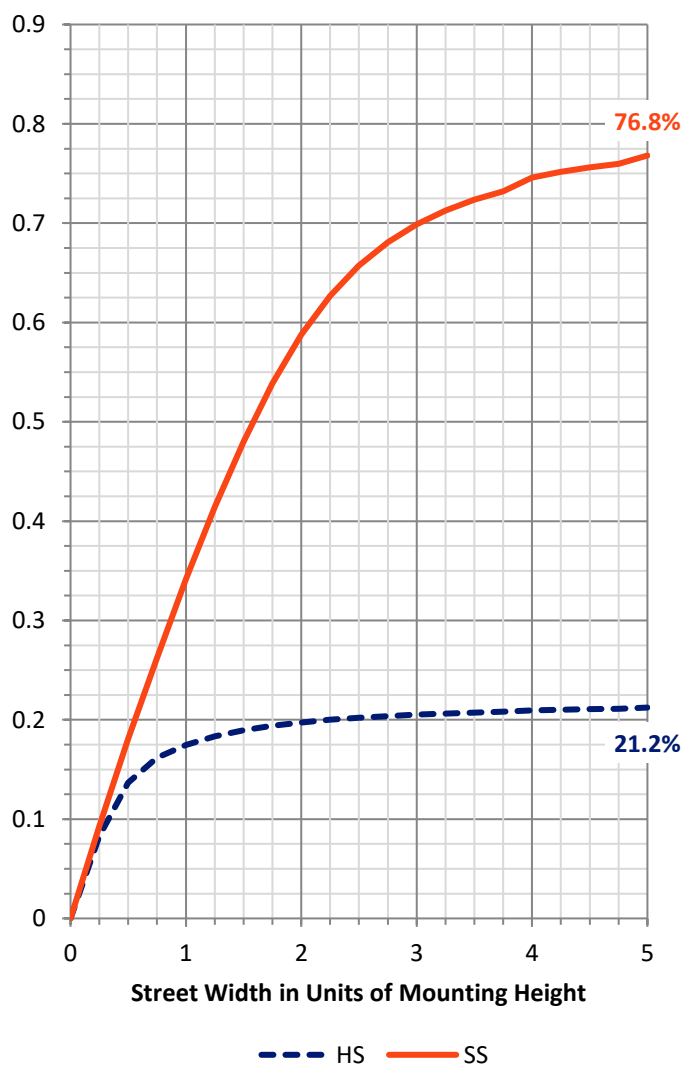
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11115.6	0.0	11115.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	40362.6	0.0	40362.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	51478.3	0.0	51478.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.8	0.9
10°-20°	1519.4	3.0
20°-30°	2595.3	5.0
30°-40°	4134.7	8.0
40°-50°	7171.1	13.9
50°-60°	10394.9	20.2
60°-70°	13109.1	25.5
70°-80°	9713.7	18.9
80°-90°	2351.2	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°	51478.3	100.0
0°-180°	51478.3	100.0

Coefficient of Utilization



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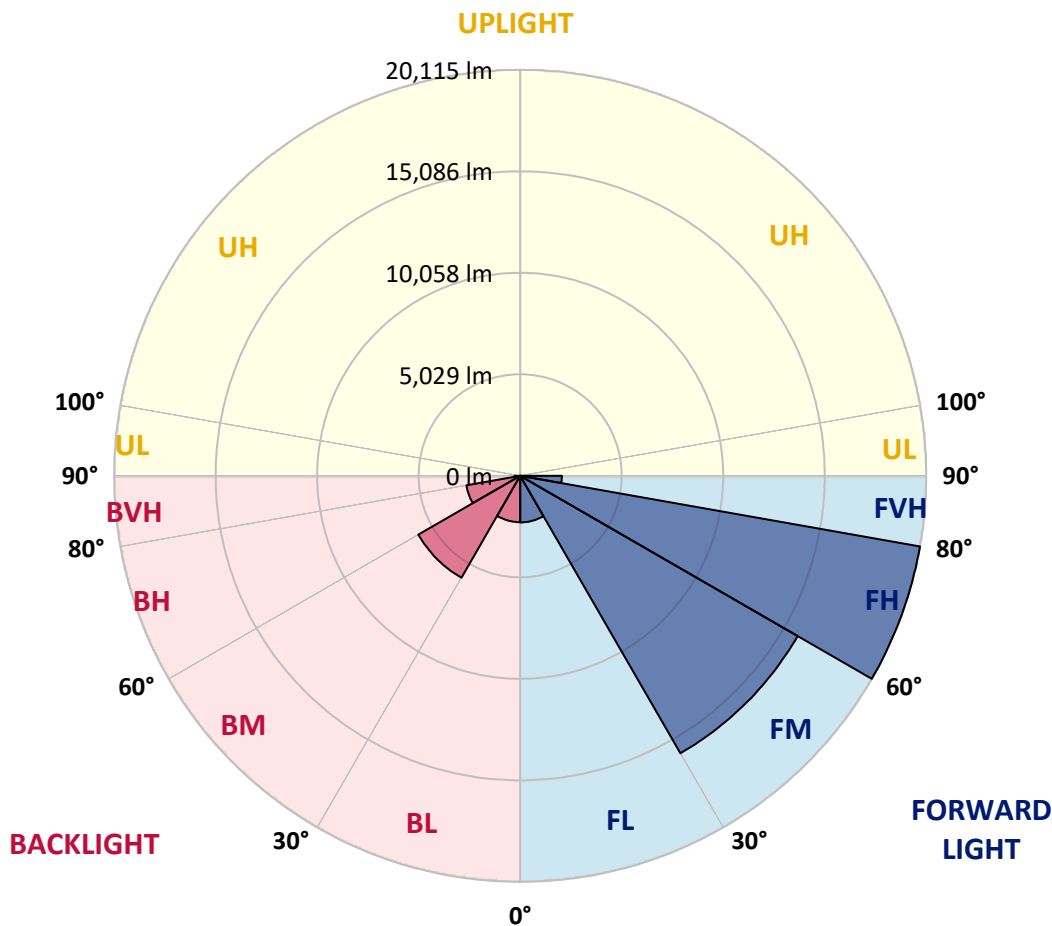
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2307.8	4.5			
FM (30°-60°)	15873.7	30.8			
FH (60°-80°)	20115.0	39.1			G5
FVH (80°-90°)	2066.2	4.0			G5
BL (0°-30°)	2295.8	4.5	B3/2500		
BM (30°-60°)	5827.1	11.3	B4/8500		
BH (60°-80°)	2707.8	5.3	B4/5000		G4/5000
BVH (80°-90°)	285.0	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9
2.5°	5031.8	5045.7	5049.6	5041.6	5049.6	5057.4	5039.7	5037.7	5029.9	4998.3	5002.2
5°	5033.8	5051.5	5053.5	5047.6	5061.3	5069.3	5061.3	5053.5	5045.7	5000.3	5010.1
7.5°	5033.8	5047.6	5051.5	5047.6	5067.3	5081.2	5081.2	5087.0	5087.0	5035.8	5043.6
10°	5016.0	5027.8	5033.8	5043.6	5077.1	5096.8	5108.7	5136.4	5152.2	5116.7	5118.6
12.5°	4935.1	4945.0	4964.8	5021.9	5100.9	5124.5	5158.0	5207.4	5246.8	5246.8	5250.7
15°	4872.0	4881.9	4919.4	4996.3	5116.7	5148.1	5213.2	5296.1	5369.1	5408.6	5440.1
17.5°	4887.8	4899.6	4954.9	5020.0	5140.3	5171.9	5264.5	5384.9	5505.2	5590.0	5653.2
20°	4937.1	4945.0	5008.1	5083.1	5211.3	5233.0	5323.8	5471.6	5639.3	5779.4	5881.9
22.5°	5077.1	5073.2	5124.5	5154.1	5286.3	5306.0	5410.5	5562.4	5779.4	5990.4	6140.3
25°	5193.5	5211.3	5252.8	5276.4	5384.9	5402.6	5532.8	5700.5	5951.0	6223.2	6463.8
27.5°	5321.8	5337.6	5379.0	5432.2	5584.1	5593.9	5684.7	5891.8	6169.9	6503.2	6887.9
30°	5611.7	5609.7	5651.2	5708.4	5913.5	5931.3	6016.1	6229.1	6487.5	6903.7	7367.3
32.5°	6112.8	6108.7	6114.7	6193.6	6416.5	6457.9	6566.4	6848.4	7171.9	7574.4	8089.2
35°	7140.4	7099.0	7020.0	6957.0	7083.2	7130.5	7367.3	7716.4	8294.2	9085.3	9722.4
37.5°	8838.7	8773.6	8507.3	8146.4	8000.4	7994.5	8160.2	8690.8	9590.2	11176.1	11752.1
40°	10466.0	10468.0	10107.0	9617.9	9162.2	9138.6	9043.8	9700.6	10992.6	13138.7	13408.9
42.5°	12008.5	11998.6	11578.5	11130.8	10586.3	10515.3	10239.2	10744.1	12393.1	14754.1	14807.4
45°	13399.0	13367.6	12915.8	12627.9	12160.3	12018.3	11651.5	11811.2	13704.8	16050.1	15862.7
47.5°	14742.4	14710.8	14146.7	13868.6	13458.3	13339.9	12951.3	13022.4	14959.3	17129.0	16716.7
50°	16129.0	16119.2	15302.5	15032.2	14596.4	14547.0	14312.4	14363.7	16269.0	18026.6	17511.7
52.5°	17772.1	17517.6	16600.4	16083.7	15774.0	15771.9	15509.6	15641.8	17716.9	18827.3	18064.0
55°	19535.4	19214.0	18275.0	17531.4	16998.9	17006.7	16598.5	16811.5	18989.1	19543.4	18592.7
57.5°	20794.0	20726.9	20446.7	19703.1	18602.5	18472.3	17845.0	18012.7	20105.6	20285.0	18973.3
60°	21967.6	22253.6	22440.9	22204.3	21649.9	21273.3	19533.5	19283.0	21089.8	20937.9	19172.5
62.5°	22707.2	22855.2	23728.9	24054.4	24924.3	24953.9	22873.0	20821.5	21928.1	21348.2	19261.2
65°	21892.6	22111.5	23559.4	24831.5	27313.0	27455.0	26577.2	23387.8	22596.8	21490.2	19093.7
67.5°	19620.3	19849.1	21588.8	24198.5	28634.6	28731.1	27819.9	26050.5	22930.1	21460.6	18602.5
68°	19038.5	19283.0	21097.6	23959.8	28725.3	28770.7	27869.2	26271.5	22951.8	21427.0	18442.7
70°	16630.0	16870.6	18709.0	22466.6	28366.3	28395.9	27557.5	26504.3	22839.4	21139.1	17391.4
72.5°	13063.8	13306.4	14756.1	19058.2	26563.4	26821.8	26393.8	25841.5	22364.0	20016.7	14911.9
75°	9256.8	9505.4	11014.4	14915.9	22900.5	23618.5	24472.6	24571.2	20584.8	17190.2	11109.0
77.5°	6527.0	6730.2	8035.8	11150.5	18482.1	19411.2	21190.4	21336.3	17239.5	13117.0	5860.3
80°	4236.8	4410.5	5580.2	8172.0	13971.1	14773.9	16728.6	16125.0	12251.1	7132.5	1019.7
82.5°	2558.3	2688.5	3554.4	5653.2	10223.4	10757.9	11554.8	9680.9	5684.7	1008.0	357.0
85°	1467.5	1556.3	2195.4	3631.3	7203.5	7659.2	7769.6	4860.2	1069.1	278.1	201.2
87.5°	751.5	796.8	1177.5	2230.9	4256.7	4451.9	3897.7	1739.7	213.0	124.2	100.6
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°	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9
2.5°	4982.5	4996.3	5006.1	5039.7	5075.2	5092.9	5075.2	5102.8	5112.6	5104.8	5092.9
5°	4994.4	5016.0	5031.8	5098.9	5138.3	5167.9	5148.1	5187.7	5201.5	5185.7	5185.7
7.5°	5027.8	5057.4	5083.1	5171.9	5217.3	5256.7	5244.8	5272.5	5284.2	5264.5	5276.4
10°	5116.7	5146.2	5179.7	5290.2	5319.7	5357.3	5335.5	5357.3	5361.2	5347.4	5357.3
12.5°	5270.5	5290.2	5355.3	5467.7	5471.6	5481.5	5436.1	5394.8	5377.0	5351.3	5369.1
15°	5467.7	5503.2	5592.0	5686.7	5661.0	5639.3	5526.8	5392.8	5308.0	5244.8	5240.9
17.5°	5686.7	5749.7	5860.3	5921.3	5862.2	5763.6	5574.2	5347.4	5142.2	5029.9	4994.4
20°	5911.5	6010.2	6132.5	6144.2	6043.7	5854.4	5566.4	5231.0	4891.8	4682.6	4631.3
22.5°	6185.7	6313.9	6424.4	6365.2	6164.1	5885.8	5493.4	5025.8	4560.4	4242.8	4195.5
25°	6548.6	6674.9	6694.6	6521.0	6209.4	5826.7	5325.7	4720.2	4130.4	3735.9	3698.4
27.5°	6986.5	7053.6	6925.4	6601.9	6154.1	5649.2	5039.7	4296.1	3651.0	3307.8	3250.6
30°	7471.8	7448.1	7095.0	6603.9	5992.4	5347.4	4605.8	3814.8	3272.3	2976.5	2921.3
32.5°	8087.1	7931.3	7266.7	6515.1	5726.1	4941.0	4094.9	3430.2	3012.0	2710.2	2657.0
35°	9310.2	8836.7	7499.4	6375.1	5373.1	4453.9	3647.1	3152.0	2789.1	2441.9	2392.6
37.5°	11170.2	10189.9	7919.5	6221.2	4980.5	3954.8	3303.9	2935.1	2613.5	2242.7	2165.8
40°	12801.4	11685.0	8590.2	6077.3	4580.1	3576.1	3106.7	2830.5	2516.8	2142.2	2063.2
42.5°	14054.0	12882.2	9357.4	5905.7	4161.9	3296.0	3023.8	2816.7	2505.1	2142.2	2069.1
45°	15065.8	13870.5	10039.9	5718.3	3757.6	3075.1	2948.9	2791.0	2481.3	2130.3	2061.3
47.5°	15864.7	14608.2	10578.4	5503.2	3337.4	2925.2	2871.9	2702.3	2420.3	2094.8	2025.8
50°	16557.0	15136.9	10880.2	5250.7	2964.6	2806.8	2763.5	2560.3	2298.0	1990.3	1944.9
52.5°	17040.3	15566.9	10994.7	5146.2	2698.4	2672.7	2615.5	2416.3	2165.8	1866.0	1814.7
55°	17403.2	15787.7	10899.9	4907.5	2432.0	2465.6	2440.0	2305.8	2073.1	1789.0	1737.7
57.5°	17588.6	15860.8	10629.7	4008.1	2179.6	2219.0	2236.8	2244.7	2059.3	1810.7	1763.4
60°	17653.7	15746.3	10039.9	2862.0	1909.4	1988.3	2086.8	2116.5	1998.1	1727.8	1688.4
62.5°	17555.1	15448.5	8884.1	1978.4	1704.2	1844.2	1974.5	1966.5	1840.3	1605.6	1552.3
65°	17170.5	14718.6	6755.8	1595.8	1635.2	1779.1	1923.2	1826.5	1704.2	1487.3	1459.6
67.5°	16239.5	13182.1	3789.1	1473.5	1613.5	1741.7	1834.4	1718.0	1581.9	1376.8	1364.9
68°	15963.3	12730.4	3234.9	1465.5	1609.6	1729.9	1810.7	1690.4	1558.3	1359.0	1351.2
70°	14353.8	10402.9	1459.6	1439.9	1585.9	1686.5	1745.7	1613.5	1471.5	1297.8	1286.1
72.5°	11091.3	6442.2	980.3	1368.9	1526.7	1621.3	1658.8	1534.6	1416.2	1222.9	1207.1
75°	6574.2	1771.3	929.0	1246.7	1426.1	1558.3	1597.7	1473.5	1333.4	1110.5	1084.9
77.5°	1617.4	639.1	899.4	1108.5	1321.6	1453.8	1516.8	1432.0	1262.3	1000.0	974.4
80°	491.2	508.9	856.1	958.7	1189.4	1297.8	1335.4	1335.4	1167.7	704.2	741.6
82.5°	323.5	408.3	729.8	720.0	944.8	1075.0	1004.0	1008.0	917.2	313.6	366.8
85°	203.2	333.3	493.2	471.4	601.6	658.8	714.1	733.8	644.9	90.7	5.9
87.5°	104.5	142.0	173.6	185.4	238.7	341.3	457.7	449.7	331.3	80.9	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)