

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: P285754

Luminaire Tested: **USSL-XL-C06-D-U-T2-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285754
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-C06-D-U-T2-BZ
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 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: 51803.7 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

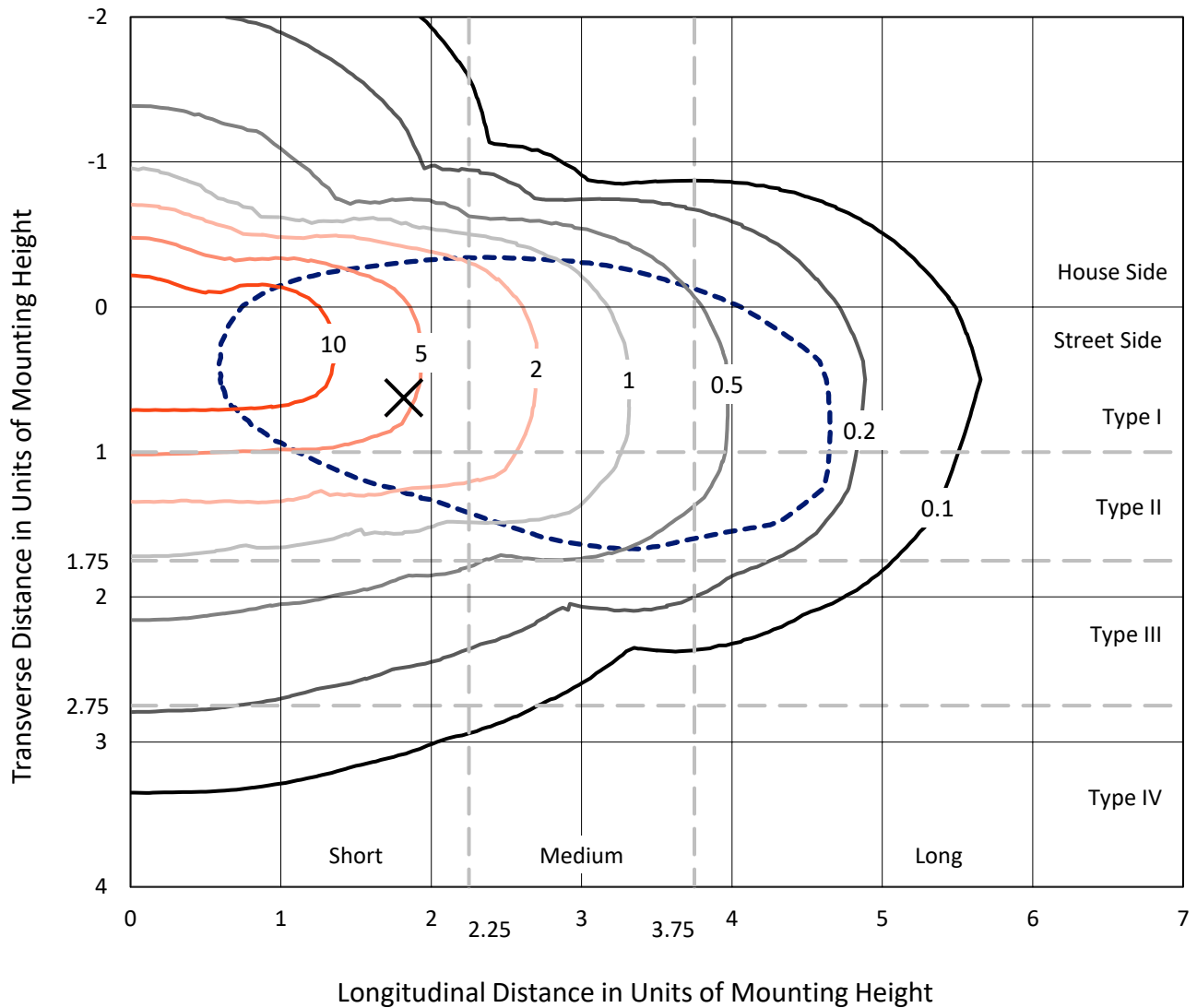
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P285754
 CATALOG NUMBER: USSL-XL-C06-D-U-T2-BZ

Iso-Footcandle Lines of Horizontal Illumination

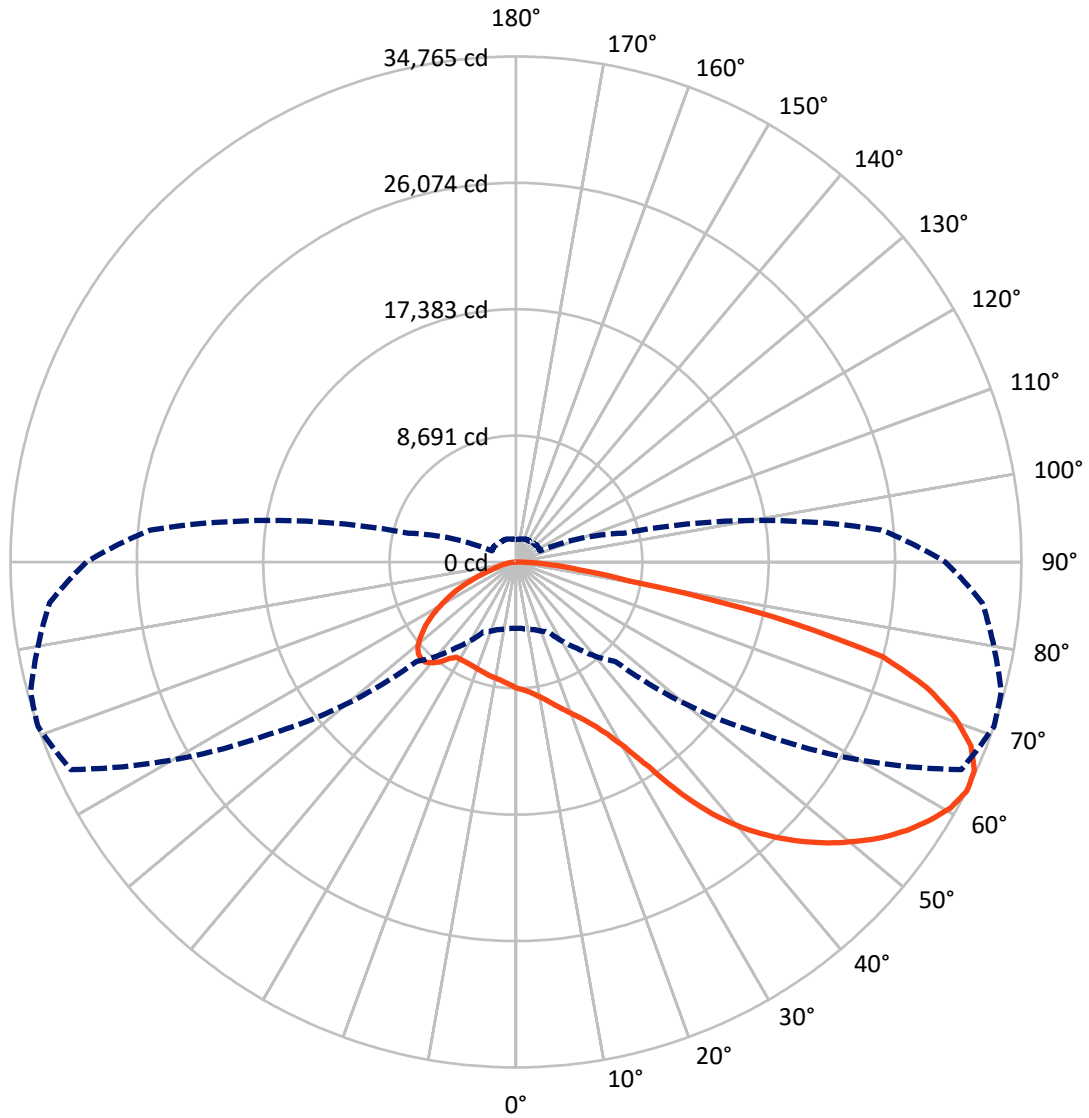
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

REPORT NUMBER: P285754
CATALOG NUMBER: USSL-XL-C06-D-U-T2-BZ

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: USSL-XL-C06-D-U-T2-BZ

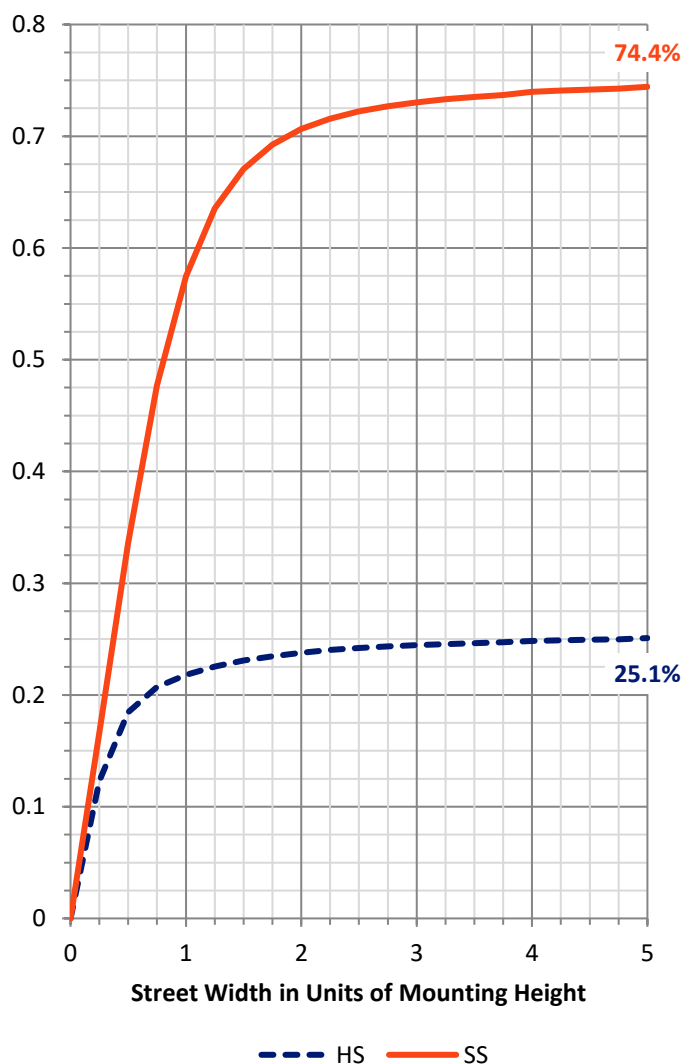
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13229.2	0.0	13229.2
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	38574.5	0.0	38574.5
	% Fixture	74.5	0.0	74.5
Total	Lumens	51803.7	0.0	51803.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.7	1.6
10°-20°	2560.9	4.9
20°-30°	4341.2	8.4
30°-40°	6543.2	12.6
40°-50°	8988.9	17.4
50°-60°	10450.5	20.2
60°-70°	10311.7	19.9
70°-80°	6593.5	12.7
80°-90°	1177.0	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°	51803.7	100.0
0°-180°	51803.7	100.0

Coefficient of Utilization



REPORT NUMBER: P285754

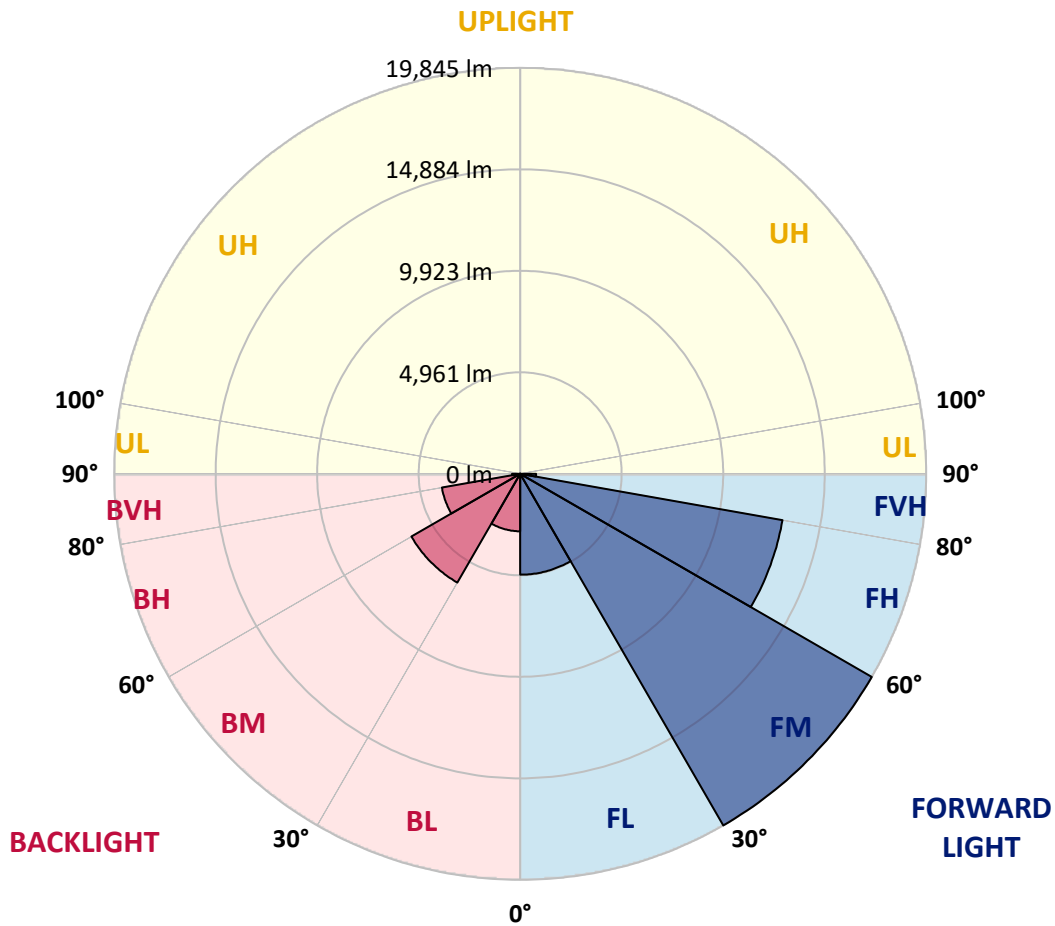
CATALOG NUMBER: USSL-XL-C06-D-U-T2-BZ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4930.5	9.5			
FM (30°-60°)	19845.0	38.3			
FH (60°-80°)	13021.2	25.1			G5
FVH (80°-90°)	777.7	1.5			G5
BL (0°-30°)	2808.4	5.4	B4/5000		
BM (30°-60°)	6137.5	11.8	B4/8500		
BH (60°-80°)	3884.0	7.5	B4/5000		G4/5000
BVH (80°-90°)	399.2	0.8			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 II Short





REPORT NUMBER: P285754

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	8684.9	8684.9	8684.9	8684.9	8684.9	8684.9	8684.9	8684.9	8684.9	8684.9	8684.9
2.5°	9259.0	9241.2	9219.4	9182.0	9138.6	9087.3	9034.1	8913.8	8789.4	8750.0	8665.2
5°	9767.8	9734.3	9706.7	9671.2	9588.3	9483.8	9343.8	9146.5	8953.2	8892.0	8716.5
7.5°	10217.5	10180.1	10130.7	10083.5	9992.7	9858.6	9669.3	9418.7	9185.9	9079.4	8793.5
10°	10618.0	10582.5	10556.8	10503.6	10430.6	10268.8	10043.9	9730.3	9460.1	9312.2	8915.7
12.5°	11061.8	11032.2	10979.0	10917.8	10821.2	10665.3	10440.4	10099.3	9811.2	9631.7	9103.1
15°	11513.5	11493.8	11399.1	11363.6	11255.1	11075.6	10876.4	10525.2	10231.3	10008.4	9371.3
17.5°	11913.9	11900.1	11840.9	11799.5	11710.7	11509.6	11304.4	10982.9	10683.1	10399.0	9669.3
20°	12170.3	12190.0	12178.3	12170.3	12164.4	11998.7	11795.5	11464.2	11162.3	10880.3	9988.7
22.5°	12409.0	12416.9	12448.4	12521.4	12626.0	12553.0	12334.1	12028.3	11720.6	11383.3	10403.0
25°	12483.9	12489.9	12612.2	12833.1	13127.0	13158.6	12979.1	12773.9	12438.6	12107.2	10971.0
27.5°	12545.1	12560.9	12714.8	13101.3	13618.1	13768.1	13702.9	13635.9	13399.3	13052.0	11734.4
30°	12527.4	12531.3	12785.8	13282.9	14008.7	14413.1	14511.7	14835.2	14776.0	14539.3	13012.6
32.5°	12201.9	12172.3	12541.2	13286.8	14314.5	15060.0	15515.7	16436.8	16786.0	16849.1	15569.0
35°	11539.1	11539.1	12091.4	13132.9	14535.4	15699.1	16659.7	18385.7	19563.3	19594.8	17999.1
37.5°	10986.8	11022.3	11641.7	12844.9	14638.0	16348.1	17971.5	20768.4	22011.2	21904.6	20028.8
40°	10436.5	10479.9	11115.1	12452.4	14576.8	16908.3	19243.8	23040.7	24074.4	23829.8	21758.7
42.5°	9827.0	9860.6	10456.2	11894.2	14365.8	17316.5	20610.7	24979.7	25802.3	25504.5	23336.7
45°	9217.5	9274.7	9811.2	11144.6	13953.5	17561.2	21782.3	26739.3	27405.9	27062.7	24772.6
47.5°	8320.0	8540.9	9166.2	10404.9	13205.9	17543.5	22821.9	28319.3	28885.3	28520.4	26066.7
50°	6495.5	6625.6	8004.4	9734.3	12219.7	17190.3	23642.4	29729.6	30214.8	29891.3	27374.4
52.5°	5899.7	5935.2	6381.0	8911.7	11126.8	16492.0	24250.0	31033.3	31506.8	31135.9	28557.8
55°	5594.0	5613.8	5832.7	7286.4	10199.8	15206.1	24526.1	32238.6	32595.6	32177.4	29559.9
57.5°	5177.8	5239.0	5544.7	6211.4	9251.0	13387.4	24169.1	33185.4	33542.4	33088.7	30518.5
60°	4870.1	4907.5	5169.9	5686.7	8152.3	11261.0	22934.3	33869.8	34351.1	33932.9	31408.1
62.5°	4566.4	4588.0	4809.0	5306.1	7207.5	9679.1	20628.4	33790.9	34765.4	34556.2	32197.1
63°	4503.2	4522.9	4743.9	5237.0	7067.5	9355.5	20143.2	33692.3	34765.4	34619.4	32295.8
65°	4223.2	4246.8	4465.8	4915.5	6481.6	8542.9	17977.4	33078.8	34641.0	34710.1	32435.8
67.5°	3806.9	3846.4	4027.8	4420.4	5601.9	7552.7	14764.2	32437.8	33749.5	33897.4	31660.6
70°	3315.8	3323.6	3542.6	3872.0	4722.2	6424.5	11381.3	30492.9	32007.8	32072.9	29847.8
72.5°	2793.0	2814.8	3012.0	3290.1	3917.4	5319.9	8136.5	26885.2	29573.8	29940.6	26812.2
75°	2438.0	2455.8	2621.5	2816.7	3252.6	4193.5	5442.2	19604.7	26072.5	26480.9	23192.6
77.5°	2041.6	2053.3	2227.0	2361.0	2643.2	3163.9	3757.7	10343.8	17957.7	20131.3	18119.4
80°	1453.8	1455.7	1629.3	1733.8	1915.3	1944.9	2388.7	5505.2	7901.9	10211.6	11975.1
82.5°	315.6	453.6	682.5	858.0	960.6	808.7	1175.6	3015.9	4365.2	5211.3	6491.5
85°	136.1	187.4	361.0	396.5	264.3	291.9	477.4	1607.6	2495.2	2970.6	3341.4
87.5°	25.6	33.5	92.7	124.2	76.9	80.9	96.7	514.8	873.8	1025.7	1144.1
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°	8684.9	8684.9	8684.9	8684.9	8684.9	8684.9	8684.9	8684.9	8684.9	8684.9	8684.9
2.5°	8613.9	8590.3	8511.3	8458.1	8424.5	8381.2	8325.9	8252.9	8231.3	8180.0	8221.4
5°	8619.8	8556.7	8391.0	8270.7	8162.2	8067.5	7957.1	7852.5	7813.1	7744.1	7771.6
7.5°	8647.4	8540.9	8284.5	8101.0	7939.3	7811.1	7657.2	7529.0	7483.6	7404.8	7418.6
10°	8720.4	8554.8	8201.6	7978.8	7755.9	7568.5	7389.0	7213.5	7134.5	7065.5	7099.0
12.5°	8848.7	8606.1	8164.2	7878.1	7582.3	7353.5	7091.2	6866.2	6755.8	6667.1	6696.7
15°	9041.9	8704.6	8120.7	7734.2	7377.1	7079.3	6757.8	6473.8	6349.4	6280.4	6313.9
17.5°	9239.1	8848.7	8095.2	7558.7	7130.6	6743.9	6434.3	6166.1	5939.1	5888.0	5907.7
20°	9471.9	8996.5	8114.9	7373.2	6840.6	6383.0	6016.1	5836.7	5542.7	5440.1	5446.1
22.5°	9779.7	9227.4	8132.6	7191.7	6495.5	5984.6	5556.5	5379.0	5097.0	4915.5	4923.3
25°	10221.5	9513.3	8174.1	7024.1	6156.2	5546.7	5051.6	4755.7	4580.1	4349.4	4351.3
27.5°	10827.1	9905.9	8256.9	6866.2	5795.2	5043.6	4438.1	4106.8	3952.9	3801.0	3781.3
30°	11860.7	10554.9	8379.1	6692.7	5367.2	4436.1	3791.2	3501.2	3371.0	3246.7	3232.9
32.5°	14042.2	12130.9	8548.8	6473.8	4905.6	3745.8	3219.1	2990.3	2806.8	2684.6	2702.3
35°	16281.0	14105.4	9266.8	6213.3	4384.9	3142.2	2789.1	2505.1	2270.3	2175.7	2181.6
37.5°	18198.3	15894.4	10345.8	5931.3	3808.9	2753.6	2357.1	2082.9	1895.5	1848.3	1907.4
40°	19794.1	17363.9	11211.7	5633.5	3203.3	2426.2	1921.2	1771.3	1651.0	1637.2	1690.4
42.5°	21303.0	18691.4	11939.6	5290.3	2639.3	2004.1	1595.8	1631.3	1613.5	1611.6	1619.4
45°	22673.9	19922.3	12345.9	4779.4	2240.7	1641.1	1507.0	1641.1	1670.7	1666.8	1645.1
47.5°	23922.5	21046.5	12622.0	4039.7	1897.5	1538.6	1556.3	1647.1	1702.3	1712.2	1688.4
50°	25218.4	22145.2	12665.4	3144.2	1761.4	1619.4	1599.7	1587.8	1688.4	1686.5	1688.4
52.5°	26376.2	23088.1	12192.0	2443.9	1832.5	1704.2	1635.2	1566.2	1623.3	1625.4	1585.9
55°	27248.1	23861.3	11381.3	2142.2	1891.6	1775.2	1737.8	1599.7	1564.2	1540.6	1554.3
57.5°	28147.6	24551.7	10280.7	2006.1	1909.4	1791.0	1828.5	1607.6	1554.3	1445.8	1438.0
60°	29013.5	25110.0	8976.8	1915.3	1887.7	1783.2	1771.3	1668.7	1566.2	1404.5	1349.1
62.5°	29540.2	25232.2	7643.5	1826.5	1846.2	1771.3	1708.1	1714.1	1643.1	1554.3	1542.5
63°	29601.3	25190.9	7389.0	1804.8	1836.4	1769.3	1708.1	1718.1	1643.1	1589.9	1591.8
65°	29524.4	24709.6	6390.9	1712.2	1800.9	1737.8	1682.6	1633.2	1510.9	1544.5	1583.9
67.5°	28660.4	23135.5	4913.5	1562.2	1722.0	1686.5	1605.6	1483.3	1372.9	1351.2	1374.8
70°	26327.0	20557.4	3481.5	1331.4	1580.0	1621.4	1585.9	1402.5	1292.0	1272.3	1319.6
72.5°	23088.1	17849.1	2390.7	1065.2	1323.5	1509.0	1499.1	1351.2	1252.6	1195.4	1219.0
75°	19435.1	14397.3	1670.7	897.5	1019.8	1359.0	1422.2	1307.8	1232.8	1179.6	1171.6
77.5°	14963.4	10874.4	1313.6	767.3	842.3	1100.7	1307.8	1298.0	1390.6	1641.1	1585.9
80°	10193.9	7231.2	946.8	575.9	670.6	771.3	1126.2	1339.3	1759.4	1033.6	1013.9
82.5°	5925.4	4248.8	591.7	382.6	400.4	524.7	706.1	1414.3	1177.5	465.5	587.8
85°	2862.0	1850.2	295.9	264.3	183.5	197.2	327.4	1317.7	834.4	207.1	41.4
87.5°	913.3	449.7	31.6	23.6	27.7	39.4	155.8	804.8	491.2	177.5	25.6
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)