

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: P285752

Luminaire Tested: **USSL-XL-C04-D-U-T2-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285752
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-C04-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: 38689.5 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

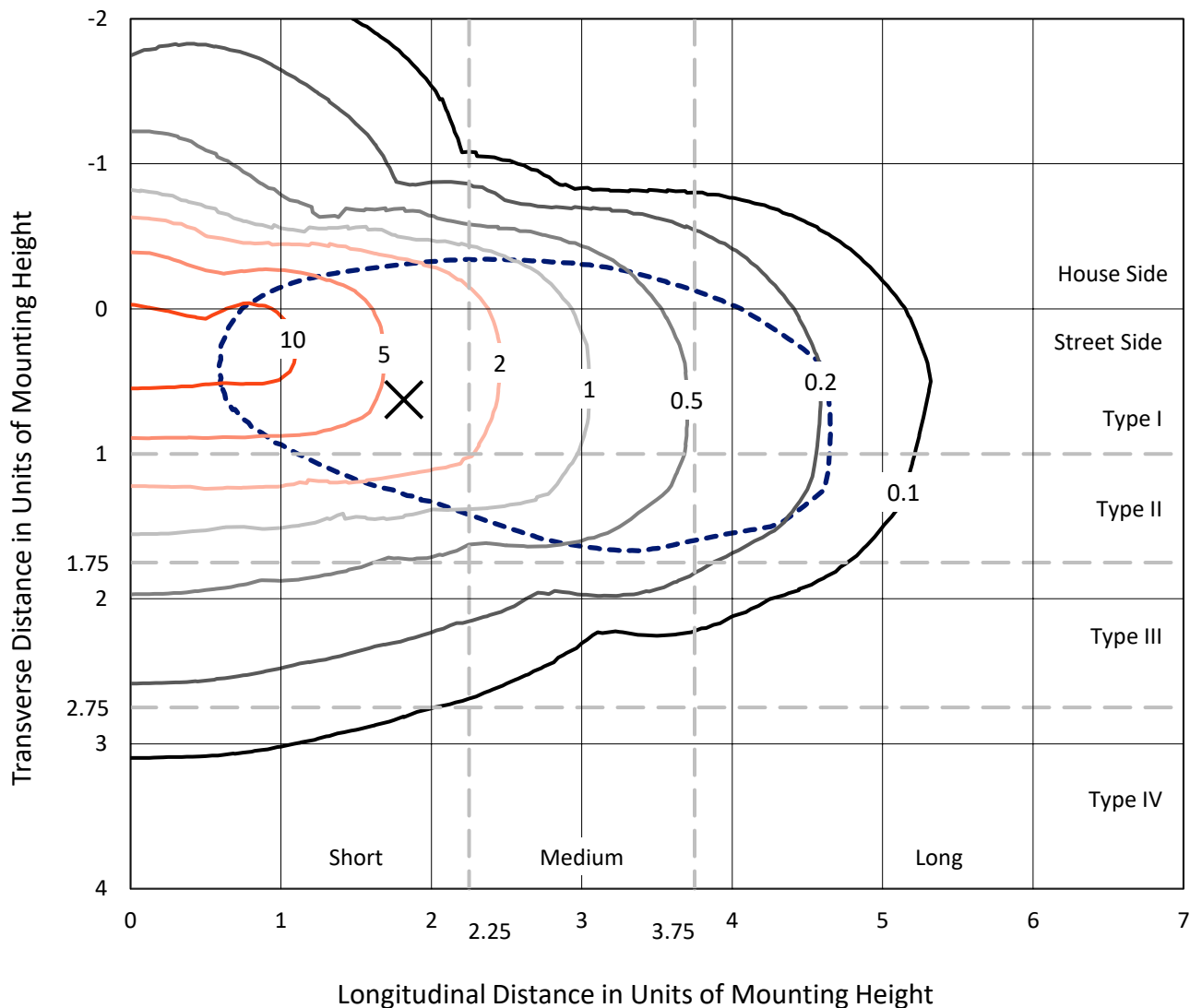
Input Watts (W): 264
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

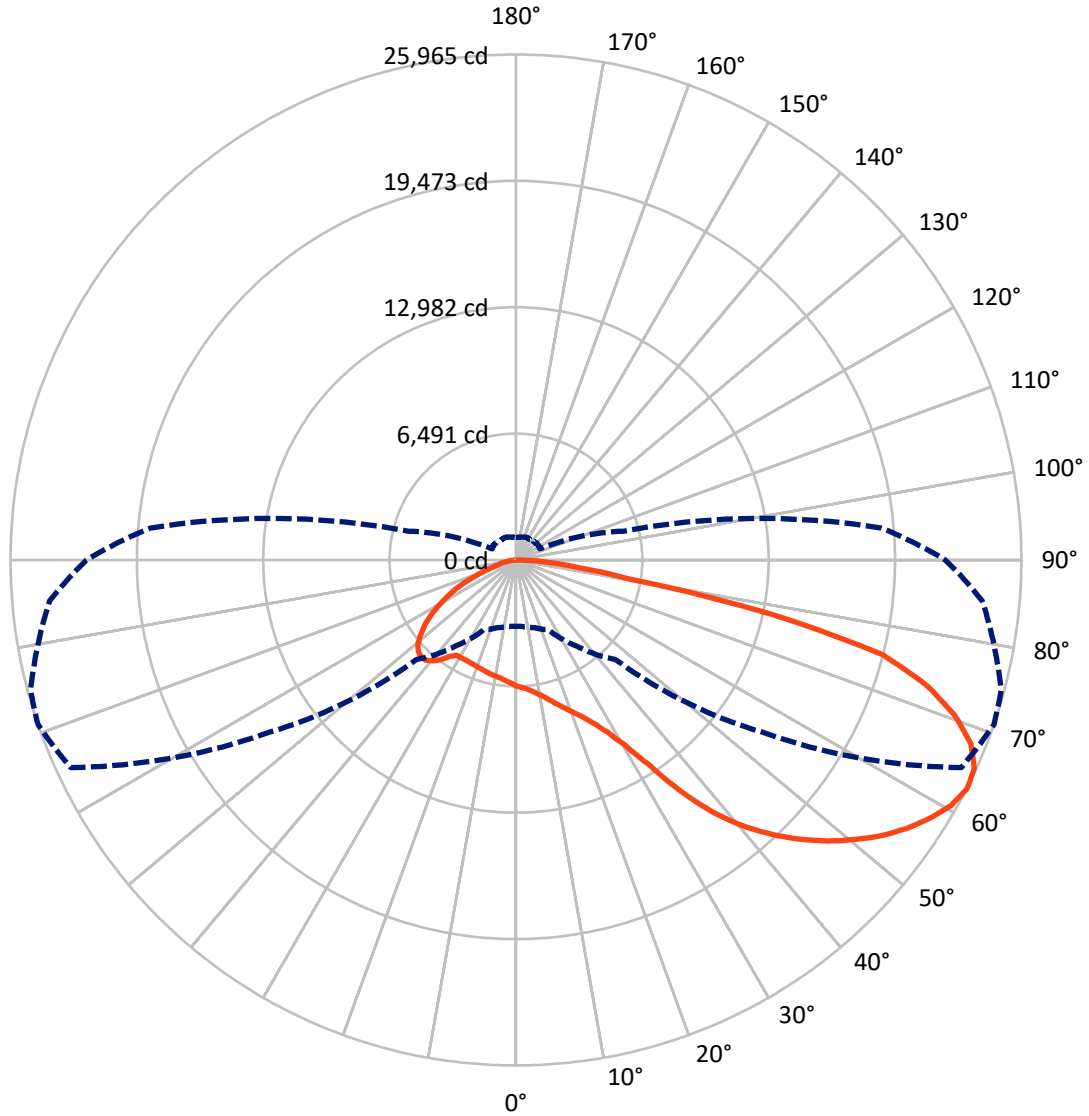
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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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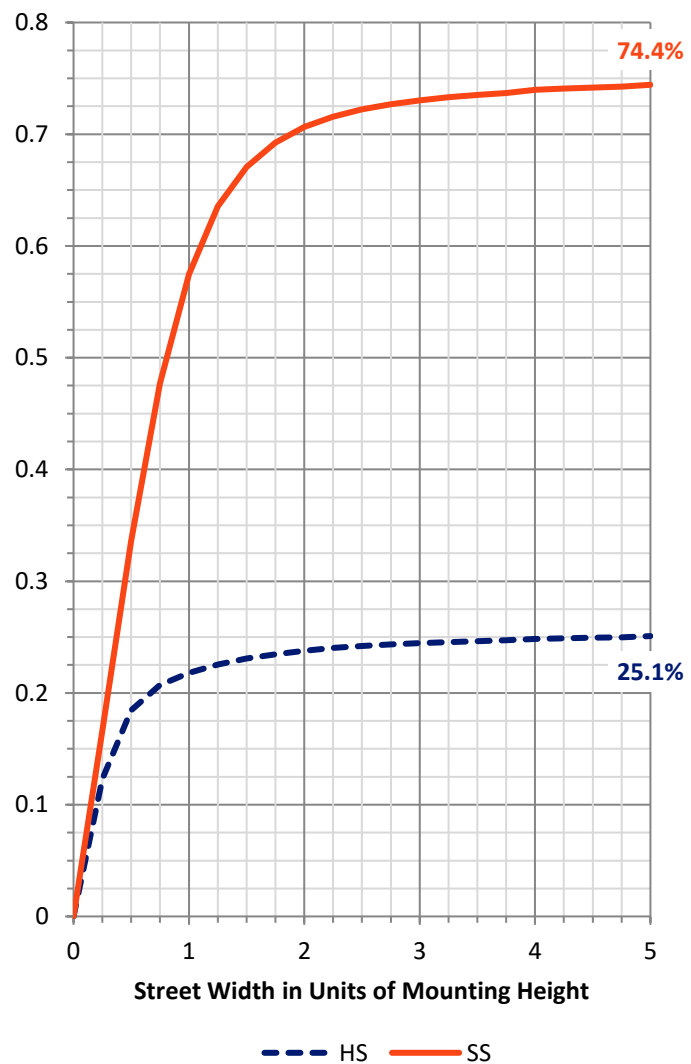
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9880.2	0.0	9880.2
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	28809.3	0.0	28809.3
	% Fixture	74.5	0.0	74.5
Total	Lumens	38689.5	0.0	38689.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.9	1.6
10°-20°	1912.6	4.9
20°-30°	3242.2	8.4
30°-40°	4886.8	12.6
40°-50°	6713.3	17.4
50°-60°	7805.0	20.2
60°-70°	7701.3	19.9
70°-80°	4924.4	12.7
80°-90°	879.0	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°	38689.5	100.0
0°-180°	38689.5	100.0



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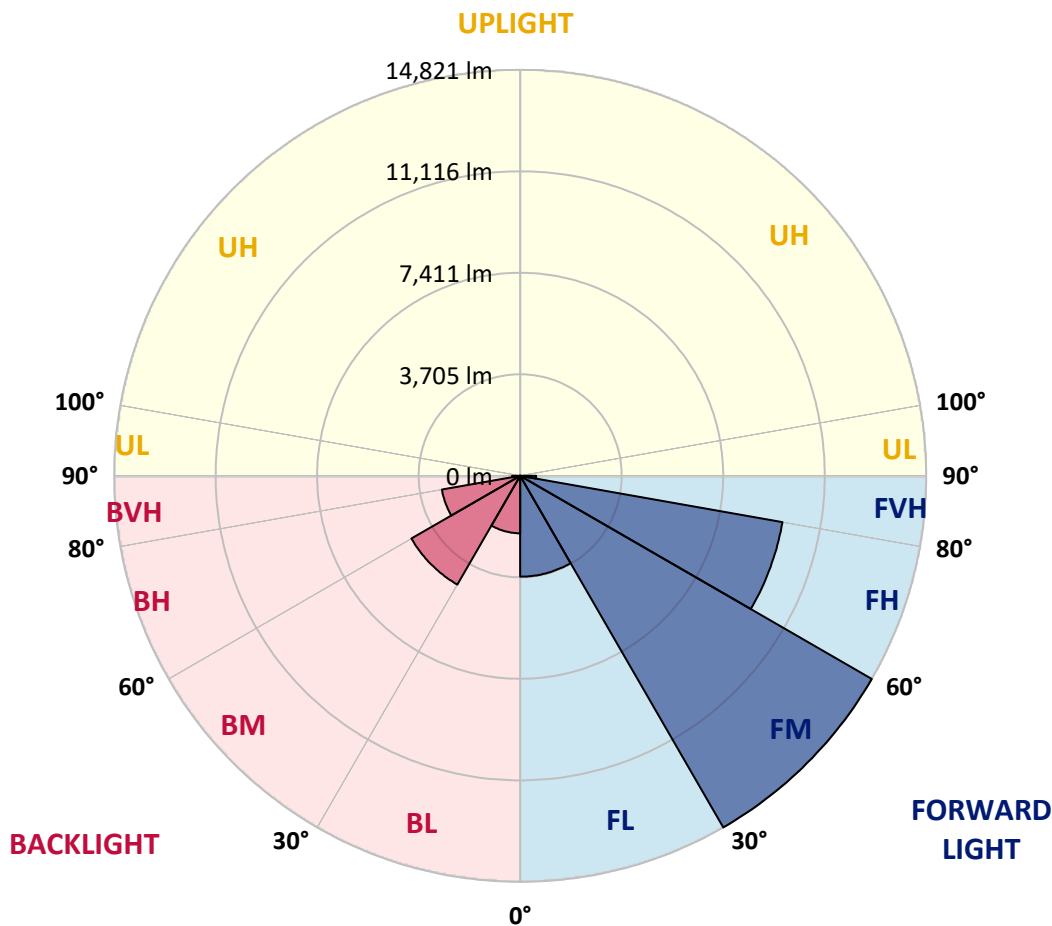
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3682.3	9.5			
FM (30°-60°)	14821.2	38.3			
FH (60°-80°)	9724.9	25.1			G4/12000
FVH (80°-90°)	580.9	1.5			G4/750
BL (0°-30°)	2097.4	5.4	B3/2500		
BM (30°-60°)	4583.8	11.8	B3/5000		
BH (60°-80°)	2900.8	7.5	B4/5000		G4/5000
BVH (80°-90°)	298.2	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6486.4	6486.4	6486.4	6486.4	6486.4	6486.4	6486.4	6486.4	6486.4	6486.4	6486.4
2.5°	6915.0	6901.8	6885.5	6857.6	6825.1	6786.9	6747.1	6657.2	6564.4	6534.9	6471.6
5°	7295.1	7270.1	7249.4	7222.9	7161.0	7083.0	6978.4	6831.1	6686.7	6641.0	6509.9
7.5°	7631.0	7603.0	7566.2	7530.8	7463.1	7362.8	7221.4	7034.3	6860.5	6780.9	6567.4
10°	7930.1	7903.5	7884.4	7844.5	7790.1	7669.3	7501.3	7267.1	7065.3	6954.7	6658.7
12.5°	8261.5	8239.3	8199.6	8153.9	8081.7	7965.4	7797.5	7542.6	7327.5	7193.4	6798.6
15°	8598.9	8584.1	8513.4	8486.8	8405.9	8271.8	8123.0	7860.7	7641.2	7474.8	6998.9
17.5°	8897.9	8887.6	8843.4	8812.4	8746.2	8595.9	8442.7	8202.6	7978.6	7766.5	7221.4
20°	9089.4	9104.1	9095.3	9089.4	9084.9	8961.2	8809.5	8562.0	8336.6	8125.9	7460.1
22.5°	9267.7	9273.6	9297.1	9351.6	9429.7	9375.2	9211.7	8983.3	8753.5	8501.6	7769.5
25°	9323.6	9328.1	9419.4	9584.4	9803.9	9827.5	9693.4	9540.2	9289.7	9042.2	8193.8
27.5°	9369.3	9381.1	9496.0	9784.8	10170.7	10282.6	10234.1	10183.9	10007.2	9747.9	8763.9
30°	9356.1	9359.0	9549.1	9920.2	10462.4	10764.3	10838.0	11079.7	11035.5	10858.7	9718.4
32.5°	9113.0	9090.9	9366.3	9923.2	10690.7	11247.6	11587.9	12275.9	12536.6	12583.8	11627.6
35°	8617.9	8617.9	9030.5	9808.3	10855.7	11724.9	12442.3	13731.3	14610.8	14634.4	13442.6
37.5°	8205.5	8232.0	8694.6	9593.3	10932.3	12209.5	13421.9	15510.9	16439.0	16359.5	14958.5
40°	7794.5	7826.9	8301.2	9300.1	10886.7	12628.0	14372.1	17208.0	17979.9	17797.3	16250.5
42.5°	7339.3	7364.3	7809.2	8883.1	10729.0	12932.9	15393.0	18656.1	19270.5	19048.0	17429.0
45°	6884.1	6926.8	7327.5	8323.4	10421.1	13115.5	16268.1	19970.2	20468.2	20211.8	18501.4
47.5°	6213.8	6378.8	6845.8	7771.0	9862.8	13102.3	17044.5	21150.2	21573.0	21300.4	19467.8
50°	4851.2	4948.4	5978.0	7270.1	9126.3	12838.6	17657.3	22203.5	22565.9	22324.2	20444.5
52.5°	4406.2	4432.7	4765.6	6655.7	8310.1	12317.1	18111.0	23177.3	23530.8	23253.9	21328.5
55°	4177.9	4192.6	4356.2	5441.8	7617.7	11356.6	18317.3	24077.3	24344.0	24031.6	22076.8
57.5°	3867.0	3912.7	4141.0	4639.0	6909.2	9998.4	18050.6	24784.5	25051.1	24712.3	22792.7
60°	3637.3	3665.2	3861.1	4247.1	6088.6	8410.3	17128.4	25295.7	25655.1	25342.8	23457.2
62.5°	3410.3	3426.6	3591.6	3962.8	5382.9	7228.8	15406.3	25236.7	25964.5	25808.4	24046.4
63°	3363.3	3378.0	3542.9	3911.2	5278.3	6987.2	15043.9	25163.1	25964.5	25855.4	24120.0
65°	3154.1	3171.8	3335.2	3671.1	4840.8	6380.3	13426.4	24704.9	25871.6	25923.2	24224.7
67.5°	2843.2	2872.6	3008.2	3301.4	4183.7	5640.7	11026.6	24226.1	25205.8	25316.2	23645.7
70°	2476.4	2482.3	2645.8	2891.8	3526.7	4798.1	8500.2	22773.6	23905.0	23953.6	22291.9
72.5°	2086.0	2102.2	2249.5	2457.3	2925.7	3973.1	6076.8	20079.2	22087.2	22361.1	20024.7
75°	1820.8	1834.1	1957.8	2103.7	2429.3	3131.9	4064.5	14641.8	19472.3	19777.2	17321.4
77.5°	1524.8	1533.6	1663.2	1763.4	1974.1	2362.9	2806.4	7725.3	13411.7	15035.1	13532.5
80°	1085.8	1087.2	1216.9	1294.9	1430.4	1452.5	1784.0	4111.6	5901.5	7626.5	8943.5
82.5°	235.7	338.9	509.7	640.8	717.4	604.0	878.0	2252.5	3260.1	3892.1	4848.2
85°	101.6	139.9	269.6	296.1	197.4	218.0	356.6	1200.7	1863.5	2218.6	2495.5
87.5°	19.2	25.0	69.2	92.8	57.4	60.4	72.2	384.5	652.6	766.1	854.4
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°	6486.4	6486.4	6486.4	6486.4	6486.4	6486.4	6486.4	6486.4	6486.4	6486.4	6486.4
2.5°	6433.3	6415.6	6356.6	6316.9	6291.9	6259.5	6218.2	6163.7	6147.5	6109.2	6140.1
5°	6437.7	6390.6	6266.9	6177.0	6095.9	6025.2	5942.8	5864.6	5835.2	5783.7	5804.2
7.5°	6458.3	6378.8	6187.3	6050.2	5929.5	5833.7	5718.8	5623.1	5589.2	5530.2	5540.5
10°	6512.9	6389.1	6125.4	5959.0	5792.5	5652.6	5518.5	5387.4	5328.4	5276.8	5301.9
12.5°	6608.6	6427.4	6097.4	5883.8	5662.8	5492.0	5296.0	5128.1	5045.5	4979.3	5001.4
15°	6752.9	6501.1	6065.0	5776.2	5509.6	5287.2	5047.0	4834.9	4742.1	4690.6	4715.6
17.5°	6900.3	6608.6	6045.9	5645.1	5325.5	5036.8	4805.5	4605.1	4435.7	4397.4	4412.2
20°	7074.1	6719.1	6060.6	5506.7	5108.9	4767.1	4493.1	4359.1	4139.5	4063.0	4067.4
22.5°	7304.0	6891.5	6073.9	5371.1	4851.2	4469.6	4149.9	4017.3	3806.6	3671.1	3677.0
25°	7633.9	7105.0	6104.8	5246.0	4597.7	4142.5	3772.7	3551.8	3420.7	3248.3	3249.8
27.5°	8086.2	7398.2	6166.6	5128.1	4328.1	3766.9	3314.6	3067.1	2952.2	2838.7	2824.0
30°	8858.1	7882.9	6258.0	4998.5	4008.4	3313.1	2831.4	2614.9	2517.6	2424.8	2414.6
32.5°	10487.4	9059.9	6384.7	4834.9	3663.8	2797.5	2404.2	2233.3	2096.3	2005.0	2018.3
35°	12159.5	10534.6	6920.9	4640.5	3274.9	2346.7	2083.0	1870.9	1695.6	1624.9	1629.3
37.5°	13591.4	11870.8	7726.8	4429.7	2844.7	2056.5	1760.4	1555.6	1415.7	1380.3	1424.5
40°	14783.2	12968.2	8373.4	4207.4	2392.4	1812.0	1434.9	1322.9	1233.1	1222.7	1262.4
42.5°	15910.2	13959.6	8917.0	3951.0	1971.1	1496.7	1191.8	1218.4	1205.0	1203.6	1209.5
45°	16934.0	14878.9	9220.5	3569.4	1673.5	1225.7	1125.5	1225.7	1247.8	1244.9	1228.6
47.5°	17866.5	15718.6	9426.8	3017.0	1417.2	1149.0	1162.3	1230.1	1271.4	1278.7	1261.1
50°	18834.3	16539.2	9459.2	2348.2	1315.5	1209.5	1194.7	1185.9	1261.1	1259.6	1261.1
52.5°	19699.1	17243.3	9105.6	1825.3	1368.5	1272.8	1221.2	1169.7	1212.4	1213.9	1184.4
55°	20350.3	17820.8	8500.2	1599.8	1412.7	1325.8	1297.8	1194.7	1168.2	1150.5	1160.8
57.5°	21022.1	18336.5	7678.1	1498.2	1426.0	1337.6	1365.6	1200.7	1160.8	1079.8	1073.9
60°	21668.7	18753.3	6704.4	1430.4	1409.8	1331.8	1322.9	1246.3	1169.7	1048.9	1007.6
62.5°	22062.0	18844.7	5708.5	1364.2	1378.9	1322.9	1275.8	1280.1	1227.2	1160.8	1152.0
63°	22107.7	18813.8	5518.5	1348.0	1371.5	1321.4	1275.8	1283.1	1227.2	1187.4	1188.9
65°	22050.3	18454.3	4773.0	1278.7	1345.0	1297.8	1256.6	1219.7	1128.5	1153.5	1183.0
67.5°	21405.0	17278.7	3669.7	1166.7	1286.1	1259.6	1199.2	1107.8	1025.3	1009.1	1026.8
70°	19662.3	15353.3	2600.1	994.4	1180.0	1210.9	1184.4	1047.4	964.9	950.2	985.5
72.5°	17243.3	13330.7	1785.5	795.5	988.5	1127.0	1119.6	1009.1	935.5	892.8	910.5
75°	14515.0	10752.6	1247.8	670.3	761.6	1015.0	1062.1	976.7	920.7	881.0	875.1
77.5°	11175.4	8121.6	981.1	573.1	629.1	822.1	976.7	969.4	1038.6	1225.7	1184.4
80°	7613.3	5400.6	707.2	430.2	500.9	576.1	841.1	1000.2	1314.1	771.9	757.2
82.5°	4425.4	3173.2	442.0	285.7	299.1	391.8	527.4	1056.3	879.5	347.6	439.0
85°	2137.6	1381.8	221.0	197.4	137.0	147.3	244.5	984.1	623.1	154.6	30.9
87.5°	682.0	335.9	23.5	17.7	20.7	29.5	116.4	601.1	366.8	132.6	19.2
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)