

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: P285753

Luminaire Tested: **USSL-XL-C069-D-U-T2-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285753
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-C069-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: 43825.8 lumens
Efficiency: N/A
Efficacy: 153.8 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

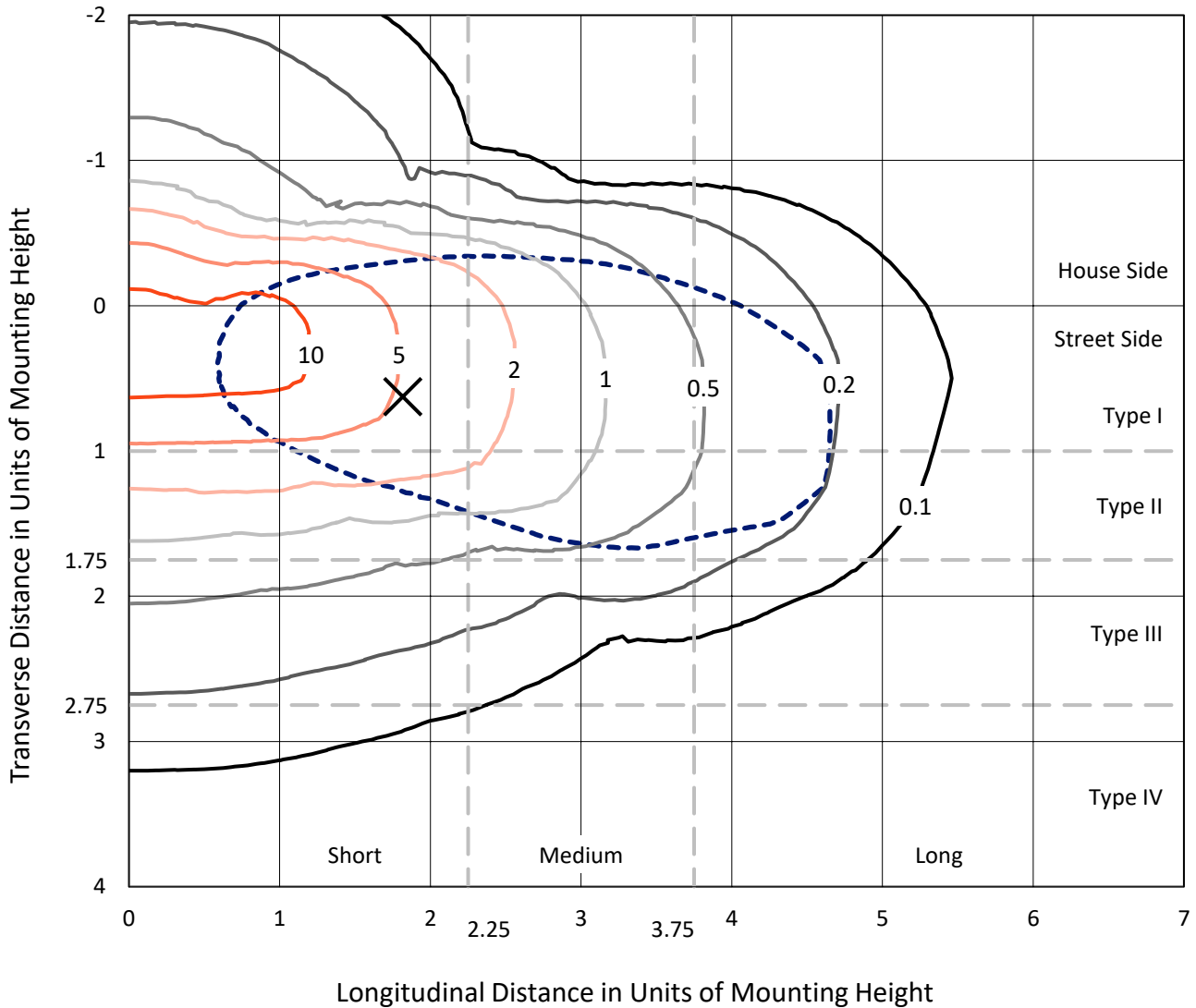
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P285753
 CATALOG NUMBER: USSL-XL-C069-D-U-T2-BZ

Iso-Footcandle Lines of Horizontal Illumination

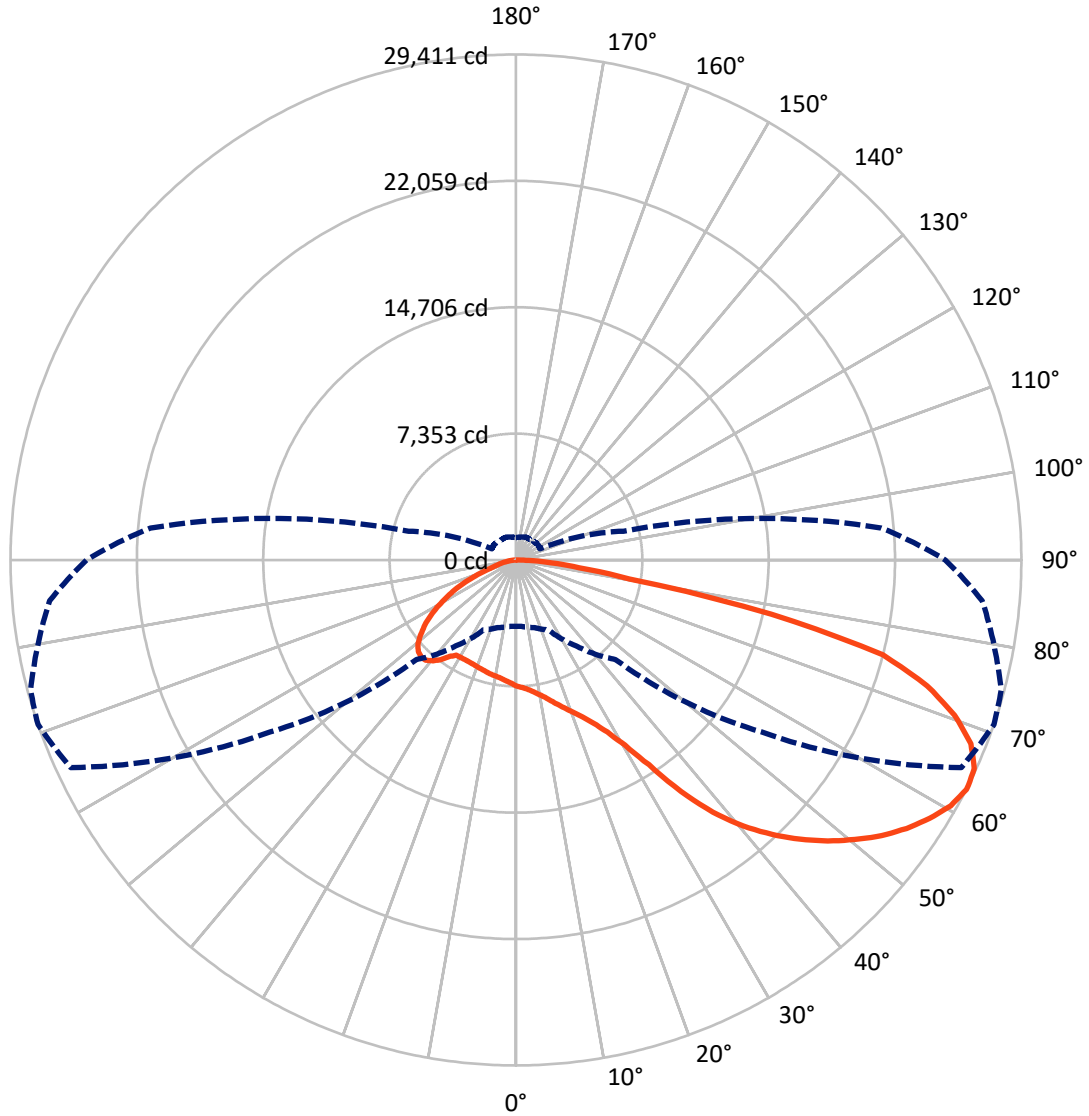
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

REPORT NUMBER: P285753
CATALOG NUMBER: USSL-XL-C069-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-C069-D-U-T2-BZ

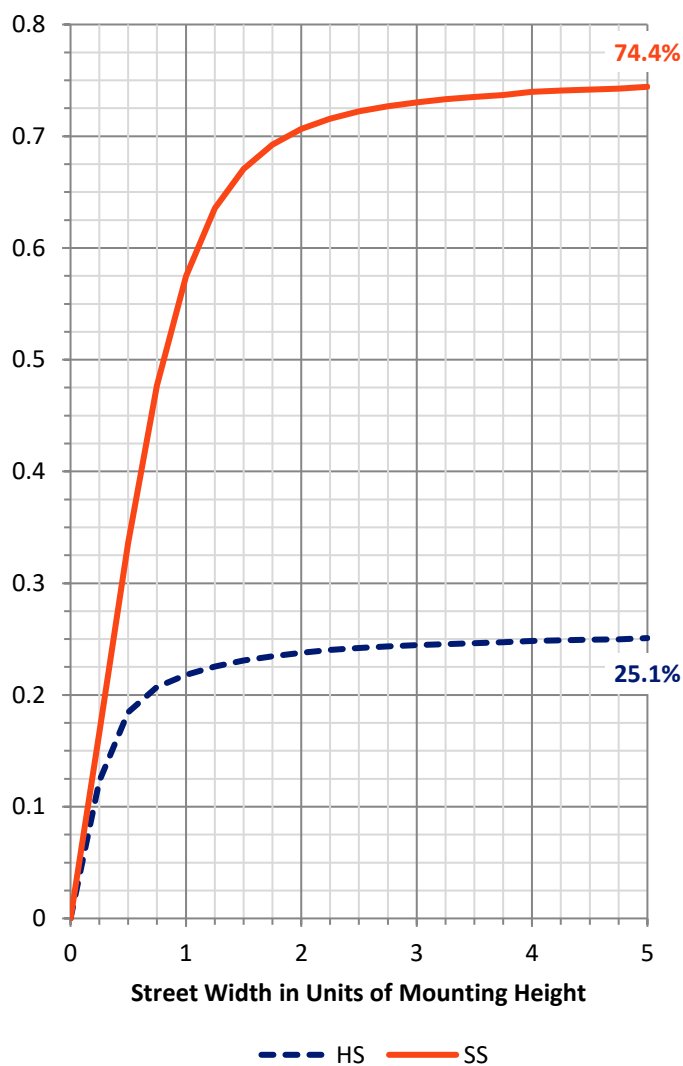
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11191.9	0.0	11191.9
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	32634.0	0.0	32634.0
	% Fixture	74.5	0.0	74.5
Total	Lumens	43825.8	0.0	43825.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.9	1.6
10°-20°	2166.5	4.9
20°-30°	3672.7	8.4
30°-40°	5535.5	12.6
40°-50°	7604.5	17.4
50°-60°	8841.1	20.2
60°-70°	8723.7	19.9
70°-80°	5578.1	12.7
80°-90°	995.7	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°	43825.8	100.0
0°-180°	43825.8	100.0

Coefficient of Utilization



REPORT NUMBER: P285753

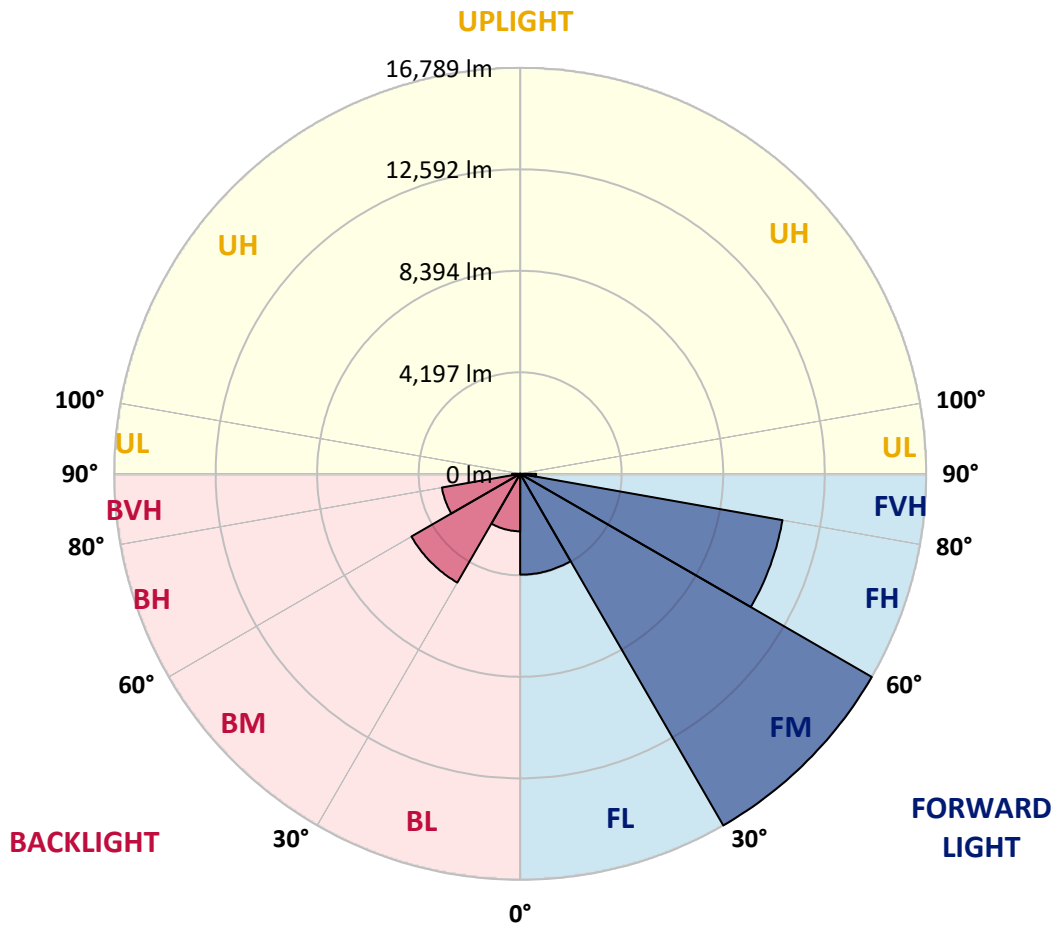
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4171.2	9.5			
FM (30°-60°)	16788.9	38.3			
FH (60°-80°)	11015.9	25.1			G4/12000
FVH (80°-90°)	658.0	1.5			G4/750
BL (0°-30°)	2375.9	5.4	B3/2500		
BM (30°-60°)	5192.3	11.8	B4/8500		
BH (60°-80°)	3285.9	7.5	B4/5000		G4/5000
BVH (80°-90°)	337.7	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°	7347.4	7347.4	7347.4	7347.4	7347.4	7347.4	7347.4	7347.4	7347.4	7347.4	7347.4
2.5°	7833.0	7818.0	7799.7	7767.9	7731.2	7687.9	7642.8	7541.0	7435.8	7402.4	7330.7
5°	8263.6	8235.2	8211.8	8181.8	8111.7	8023.2	7904.7	7737.9	7574.4	7522.6	7374.1
7.5°	8644.0	8612.3	8570.6	8530.6	8453.8	8340.4	8180.1	7968.2	7771.3	7681.2	7439.2
10°	8982.8	8952.8	8931.0	8886.0	8824.3	8687.5	8497.2	8231.8	8003.2	7878.1	7542.7
12.5°	9358.3	9333.3	9288.1	9236.4	9154.7	9022.8	8832.6	8544.0	8300.3	8148.4	7701.2
15°	9740.4	9723.7	9643.6	9613.6	9521.8	9369.9	9201.4	8904.3	8655.7	8467.1	7928.2
17.5°	10079.1	10067.5	10017.4	9982.4	9907.3	9737.1	9563.5	9291.5	9037.9	8797.6	8180.1
20°	10296.1	10312.7	10302.8	10296.1	10291.1	10150.9	9979.1	9698.7	9443.4	9204.7	8450.5
22.5°	10498.0	10504.7	10531.4	10593.1	10681.6	10619.8	10434.6	10175.9	9915.6	9630.3	8800.9
25°	10561.4	10566.5	10669.9	10856.8	11105.4	11132.1	10980.2	10806.7	10523.0	10242.7	9281.4
27.5°	10613.1	10626.5	10756.6	11083.7	11520.9	11647.8	11592.7	11536.0	11335.7	11042.0	9927.3
30°	10598.2	10601.4	10816.7	11237.3	11851.4	12193.4	12276.8	12550.5	12500.5	12300.2	11008.7
32.5°	10322.8	10297.8	10609.8	11240.6	12110.0	12740.7	13126.2	13905.6	14201.0	14254.3	13171.3
35°	9762.1	9762.1	10229.3	11110.4	12296.9	13281.4	14094.1	15554.2	16550.4	16577.2	15227.2
37.5°	9294.8	9324.9	9848.9	10866.8	12383.7	13830.4	15203.8	17570.1	18621.4	18531.3	16944.3
40°	8829.3	8866.0	9403.3	10534.7	12331.9	14304.4	16280.2	19492.5	20366.9	20159.9	18407.8
42.5°	8313.6	8341.9	8845.9	10062.5	12153.3	14649.8	17436.6	21132.8	21828.6	21576.7	19742.8
45°	7798.0	7846.3	8300.3	9428.3	11804.6	14856.7	18427.8	22621.3	23185.4	22895.0	20957.6
47.5°	7038.7	7225.7	7754.7	8802.6	11172.2	14841.7	19307.2	23958.0	24436.9	24128.2	22052.3
50°	5495.2	5605.3	6771.7	8235.2	10337.8	14543.0	20001.5	25151.1	25561.6	25287.9	23158.7
52.5°	4991.2	5021.2	5398.4	7539.4	9413.3	13952.3	20515.4	26254.1	26654.7	26341.0	24159.9
55°	4732.6	4749.2	4934.5	6164.3	8629.0	12864.2	20749.0	27273.8	27575.8	27222.0	25007.6
57.5°	4380.5	4432.2	4690.8	5254.9	7826.4	11325.7	20447.0	28074.7	28376.8	27993.0	25818.6
60°	4120.1	4151.8	4373.8	4811.0	6896.9	9526.8	19402.3	28653.8	29061.0	28707.2	26571.3
62.5°	3863.1	3881.5	4068.3	4488.9	6097.5	8188.5	17451.6	28587.1	29411.4	29234.5	27238.7
63°	3809.7	3826.5	4013.3	4430.5	5979.1	7914.8	17041.1	28503.6	29411.4	29287.9	27322.2
65°	3572.7	3592.7	3778.0	4158.5	5483.5	7227.2	15208.8	27984.6	29306.2	29364.6	27440.6
67.5°	3220.6	3254.0	3407.6	3739.6	4739.2	6389.6	12490.5	27442.3	28552.0	28677.2	26784.8
70°	2805.1	2811.8	2997.1	3275.7	3995.0	5435.1	9628.6	25796.9	27078.5	27133.5	25251.3
72.5°	2362.9	2381.3	2548.1	2783.4	3314.1	4500.5	6883.5	22744.8	25019.3	25329.7	22683.1
75°	2062.6	2077.6	2217.7	2383.0	2751.7	3547.7	4604.0	16585.5	22057.3	22402.7	19621.0
77.5°	1727.1	1737.2	1884.0	1997.5	2236.1	2676.7	3179.0	8750.9	15192.2	17031.1	15329.0
80°	1229.9	1231.5	1378.4	1466.8	1620.4	1645.4	2020.8	4657.4	6684.9	8639.0	10130.8
82.5°	267.0	383.8	577.4	725.9	812.6	684.2	994.6	2551.5	3692.9	4408.8	5491.8
85°	115.1	158.6	305.4	335.5	223.6	247.0	403.8	1360.1	2110.9	2513.1	2826.9
87.5°	21.7	28.4	78.4	105.1	65.1	68.5	81.7	435.5	739.3	867.7	967.9
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°	7347.4	7347.4	7347.4	7347.4	7347.4	7347.4	7347.4	7347.4	7347.4	7347.4	7347.4
2.5°	7287.3	7267.3	7200.5	7155.5	7127.2	7090.4	7043.7	6982.0	6963.6	6920.2	6955.3
5°	7292.3	7239.0	7098.8	6997.0	6905.2	6825.1	6731.6	6643.2	6609.9	6551.5	6574.8
7.5°	7315.7	7225.7	7008.7	6853.5	6716.7	6608.2	6478.0	6369.6	6331.2	6264.4	6276.1
10°	7377.4	7237.3	6938.6	6750.0	6561.4	6403.0	6251.1	6102.6	6035.8	5977.4	6005.8
12.5°	7486.0	7280.7	6906.8	6665.0	6414.6	6221.1	5999.1	5808.9	5715.4	5640.4	5665.4
15°	7649.5	7364.1	6870.2	6543.1	6241.0	5989.1	5717.1	5476.8	5371.7	5313.3	5341.6
17.5°	7816.3	7486.0	6848.4	6394.6	6032.4	5705.4	5443.4	5216.5	5024.6	4981.2	4997.9
20°	8013.3	7611.1	6865.2	6237.7	5787.2	5400.0	5089.6	4937.8	4689.1	4602.4	4607.4
22.5°	8273.6	7806.4	6880.2	6084.2	5495.2	5062.9	4700.9	4550.7	4312.0	4158.5	4165.2
25°	8647.4	8048.2	6915.2	5942.3	5208.1	4692.5	4273.6	4023.3	3874.8	3679.5	3681.2
27.5°	9159.7	8380.4	6985.3	5808.9	4902.8	4266.9	3754.7	3474.4	3344.1	3215.6	3199.0
30°	10034.1	8929.3	7088.8	5662.0	4540.6	3753.0	3207.3	2962.0	2851.9	2746.7	2735.1
32.5°	11879.7	10262.7	7232.3	5476.8	4150.1	3168.9	2723.4	2529.8	2374.6	2271.2	2286.2
35°	13773.7	11933.1	7839.7	5256.5	3709.5	2658.3	2359.5	2119.3	1920.8	1840.6	1845.6
37.5°	15395.7	13446.6	8752.5	5017.9	3222.3	2329.6	1994.1	1762.2	1603.6	1563.6	1613.7
40°	16745.8	14689.9	9485.0	4765.9	2710.1	2052.5	1625.4	1498.5	1396.7	1385.1	1430.1
42.5°	18022.3	15812.9	10100.8	4475.5	2232.8	1695.4	1350.0	1380.0	1365.0	1363.3	1370.0
45°	19182.1	16854.2	10444.6	4043.3	1895.6	1388.4	1275.0	1388.4	1413.4	1410.1	1391.8
47.5°	20238.4	17805.4	10678.2	3417.5	1605.3	1301.7	1316.6	1393.3	1440.1	1448.5	1428.4
50°	21334.7	18734.9	10715.0	2659.9	1490.2	1370.0	1353.4	1343.3	1428.4	1426.7	1428.4
52.5°	22314.3	19532.5	10314.4	2067.5	1550.2	1441.8	1383.4	1325.0	1373.4	1375.0	1341.6
55°	23051.9	20186.6	9628.6	1812.2	1600.3	1501.9	1470.2	1353.4	1323.3	1303.3	1314.9
57.5°	23812.8	20770.8	8697.4	1697.1	1615.3	1515.2	1546.9	1360.1	1314.9	1223.2	1216.6
60°	24545.4	21242.9	7594.4	1620.4	1597.0	1508.6	1498.5	1411.8	1325.0	1188.1	1141.4
62.5°	24991.0	21346.4	6466.3	1545.2	1562.0	1498.5	1445.2	1450.2	1390.1	1314.9	1304.9
63°	25042.7	21311.4	6251.1	1526.9	1553.6	1496.9	1445.2	1453.4	1390.1	1345.0	1346.7
65°	24977.6	20904.2	5406.7	1448.5	1523.5	1470.2	1423.4	1381.7	1278.2	1306.6	1340.0
67.5°	24246.7	19572.5	4156.8	1321.6	1456.8	1426.7	1358.4	1254.9	1161.4	1143.1	1163.1
70°	22272.5	17391.6	2945.4	1126.4	1336.6	1371.7	1341.6	1186.5	1093.0	1076.3	1116.4
72.5°	19532.5	15100.4	2022.5	901.1	1119.7	1276.5	1268.3	1143.1	1059.7	1011.3	1031.3
75°	16442.0	12180.1	1413.4	759.3	862.8	1149.8	1203.2	1106.3	1042.9	997.9	991.2
77.5°	12659.0	9199.7	1111.4	649.2	712.6	931.1	1106.3	1098.1	1176.5	1388.4	1341.6
80°	8624.0	6117.5	801.0	487.2	567.4	652.5	952.9	1133.0	1488.5	874.4	857.8
82.5°	5012.9	3594.4	500.6	323.7	338.7	443.9	597.4	1196.5	996.2	393.9	497.3
85°	2421.3	1565.3	250.3	223.6	155.2	166.8	277.1	1114.7	705.9	175.2	35.1
87.5°	772.7	380.5	26.7	20.0	23.3	33.4	131.9	680.9	415.5	150.2	21.7
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)