

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: P285749

Luminaire Tested: **USSL-XL-C06-D-U-T2-AP-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285749
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-AP-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LEDS AND TYPE II OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50863.6 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B4 - U0 - G5

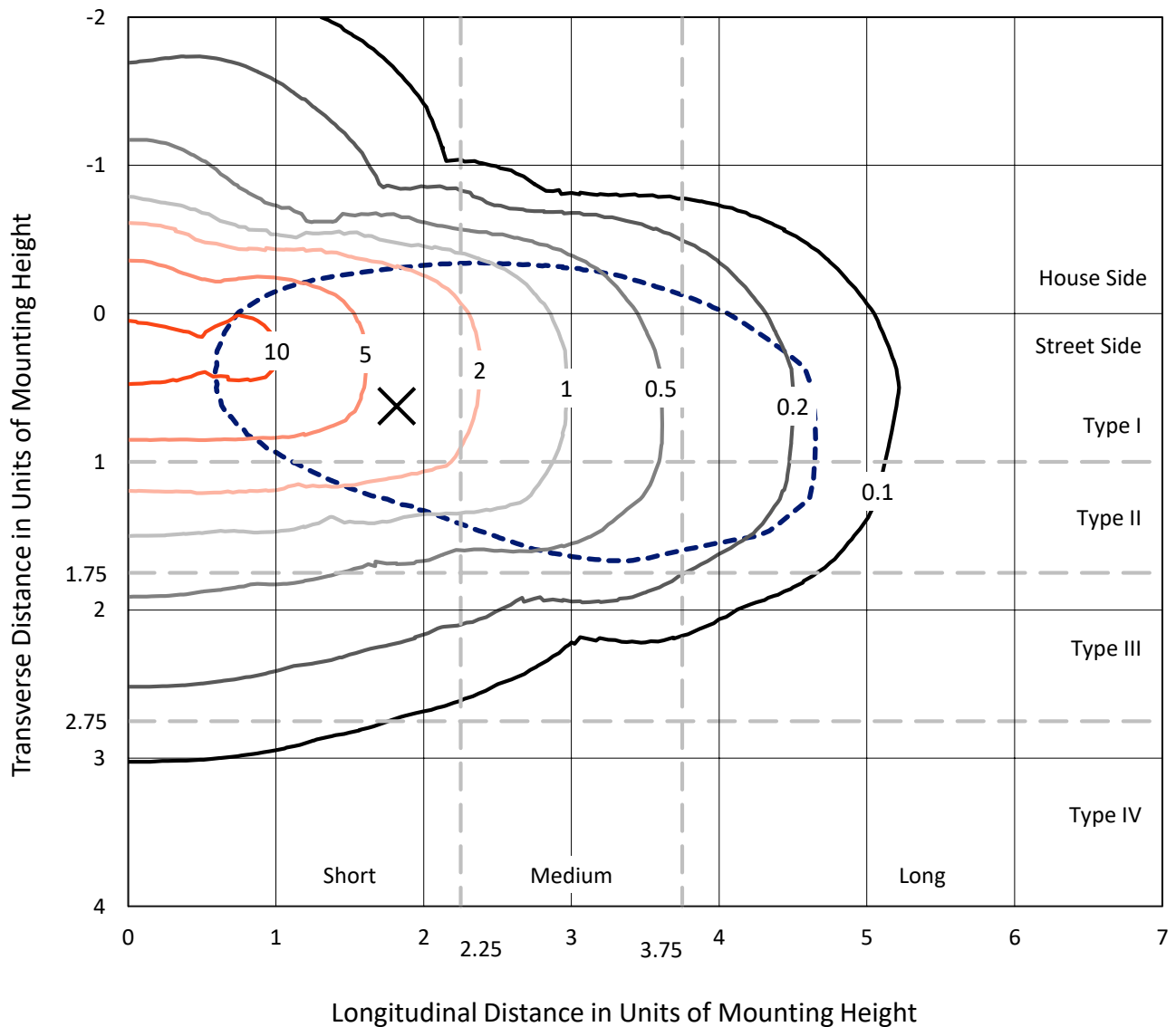
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

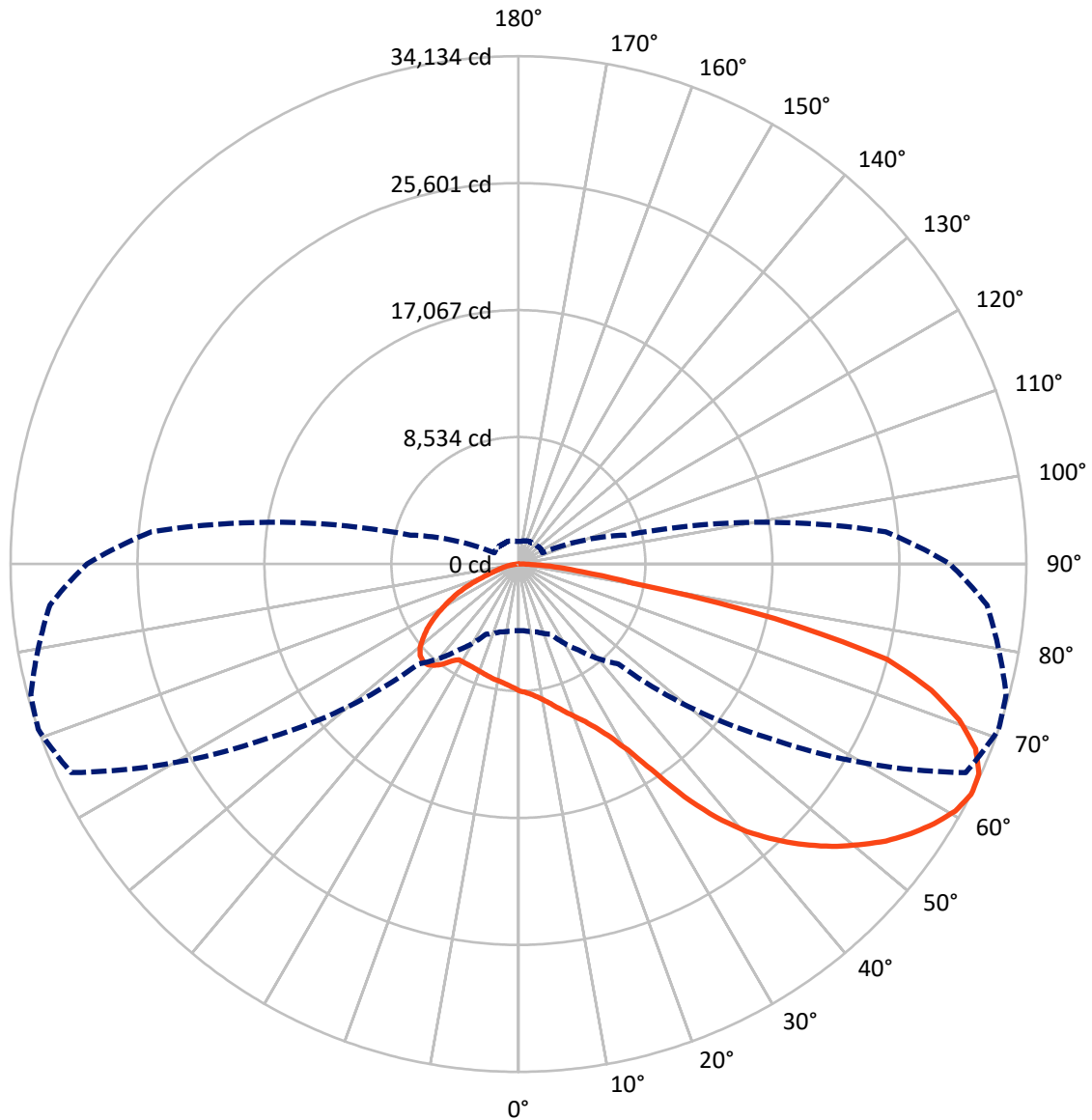
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - Non-Cutoff

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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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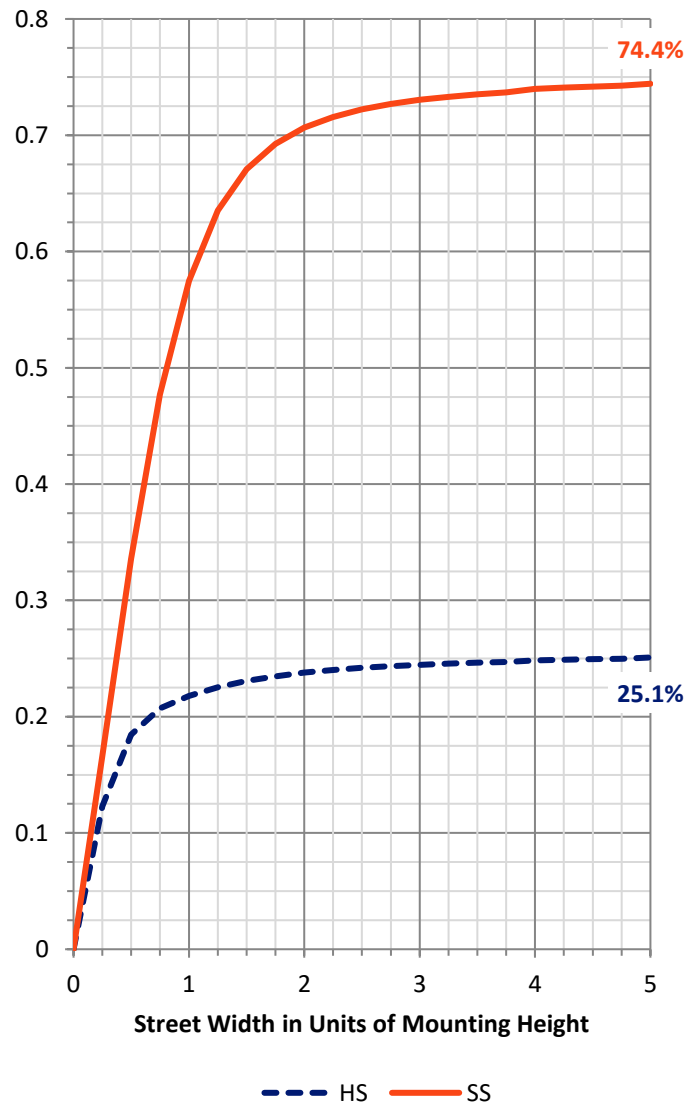
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12989.1	0.0	12989.1
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	37874.5	0.0	37874.5
	% Fixture	74.5	0.0	74.5
Total	Lumens	50863.6	0.0	50863.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	821.6	1.6
10°-20°	2514.4	4.9
20°-30°	4262.5	8.4
30°-40°	6424.4	12.6
40°-50°	8825.7	17.4
50°-60°	10260.9	20.2
60°-70°	10124.6	19.9
70°-80°	6473.9	12.7
80°-90°	1155.6	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°	50863.6	100.0
0°-180°	50863.6	100.0



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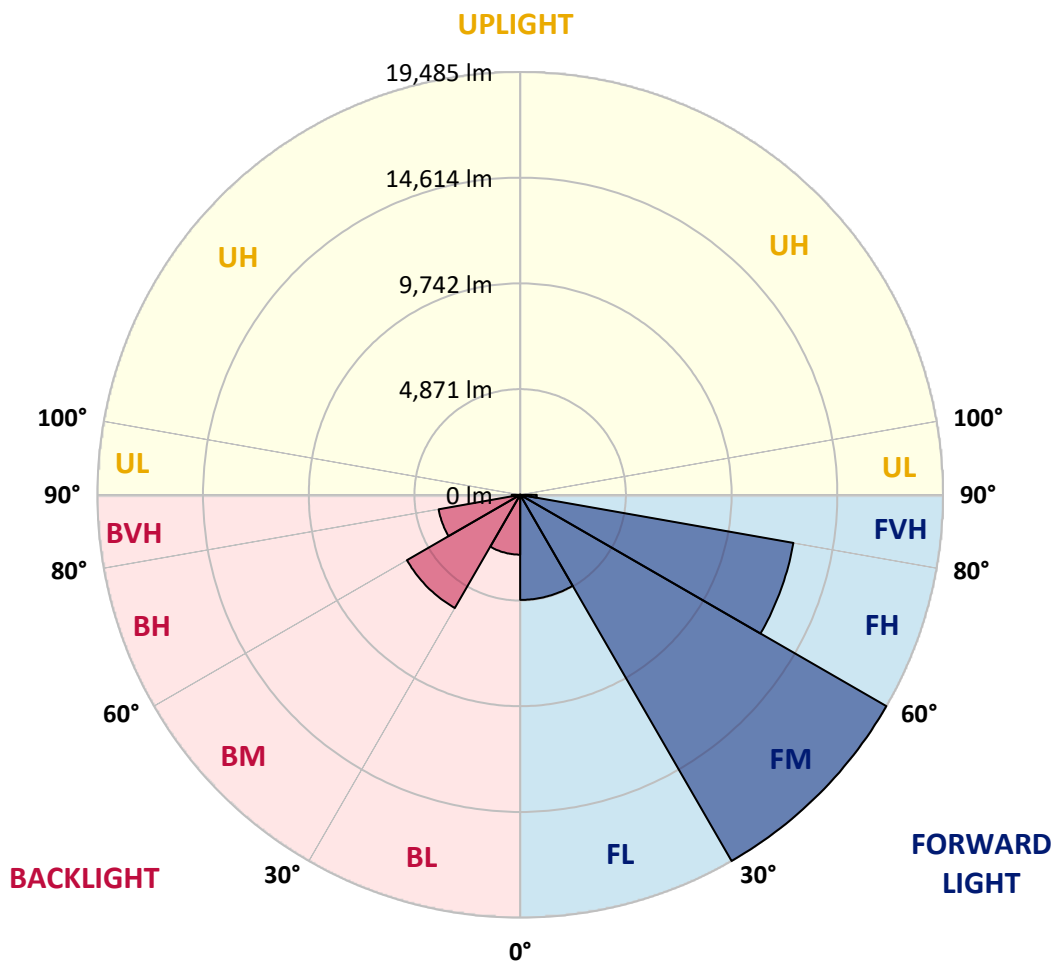
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4841.0	9.5			
FM	(30°-60°)	19484.9	38.3			
FH	(60°-80°)	12784.9	25.1			G5
FVH	(80°-90°)	763.6	1.5			G5
BL	(0°-30°)	2757.4	5.4	B4/5000		
BM	(30°-60°)	6026.2	11.8	B4/8500		
BH	(60°-80°)	3813.5	7.5	B4/5000		G4/5000
BVH	(80°-90°)	392.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	8527.3	8527.3	8527.3	8527.3	8527.3	8527.3	8527.3	8527.3	8527.3	8527.3	8527.3
2.5°	9090.9	9073.5	9052.2	9015.4	8972.8	8922.5	8870.1	8752.0	8629.9	8591.2	8507.9
5°	9590.6	9557.6	9530.5	9495.6	9414.3	9311.6	9174.2	8980.5	8790.7	8730.7	8558.3
7.5°	10032.2	9995.3	9946.9	9900.4	9811.4	9679.6	9493.7	9247.7	9019.2	8914.6	8633.8
10°	10425.3	10390.4	10365.3	10312.9	10241.3	10082.5	9861.7	9553.7	9288.4	9143.2	8753.9
12.5°	10861.0	10832.0	10779.7	10719.6	10624.8	10471.8	10250.9	9915.9	9633.2	9457.0	8937.9
15°	11304.6	11285.2	11192.2	11157.4	11050.8	10874.6	10679.0	10334.2	10045.7	9826.9	9201.3
17.5°	11697.7	11684.1	11626.0	11585.3	11498.2	11300.7	11099.3	10783.5	10489.2	10210.3	9493.7
20°	11949.4	11968.8	11957.3	11949.4	11943.7	11781.0	11581.5	11256.1	10959.8	10682.8	9807.5
22.5°	12183.8	12191.6	12222.6	12294.2	12396.8	12325.2	12110.2	11810.0	11507.9	11176.8	10214.2
25°	12257.4	12263.3	12383.3	12600.2	12888.8	12919.8	12743.5	12542.1	12212.9	11887.5	10772.0
27.5°	12317.4	12332.9	12484.0	12863.6	13371.1	13518.2	13454.3	13388.4	13156.0	12815.1	11521.4
30°	12300.0	12303.8	12553.7	13041.8	13754.4	14151.5	14248.3	14566.0	14507.8	14275.5	12776.5
32.5°	11980.5	11951.4	12313.6	13045.7	14054.7	14786.8	15234.2	16138.6	16481.3	16543.3	15286.4
35°	11329.7	11329.7	11872.0	12894.5	14271.6	15414.2	16357.4	18052.0	19208.2	19239.2	17672.5
37.5°	10787.5	10822.3	11430.4	12611.9	14372.2	16051.4	17645.3	20391.5	21611.7	21507.1	19665.3
40°	10247.1	10289.7	10913.4	12226.4	14312.3	16601.4	18894.5	22622.6	23637.5	23397.3	21363.8
42.5°	9648.7	9681.6	10266.5	11678.3	14105.0	17002.3	20236.7	24526.4	25334.0	25041.6	22913.1
45°	9050.3	9106.3	9633.2	10942.4	13700.3	17242.5	21387.0	26253.9	26908.5	26571.6	24323.1
47.5°	8169.1	8385.9	8999.8	10216.2	12966.3	17225.1	22407.7	27805.3	28361.1	28002.8	25593.5
50°	6377.5	6505.3	7859.2	9557.6	11997.9	16878.4	23213.3	29190.0	29666.5	29348.8	26877.6
52.5°	5792.7	5827.5	6265.3	8750.0	10924.9	16192.8	23809.8	30470.2	30935.0	30570.9	28039.7
55°	5492.5	5511.9	5726.9	7154.2	10014.7	14930.1	24081.0	31653.5	32004.0	31593.5	29023.5
57.5°	5083.8	5143.9	5444.1	6098.7	9083.1	13144.5	23730.4	32583.1	32933.6	32488.3	29964.6
60°	4781.7	4818.5	5076.1	5583.6	8004.4	11056.7	22518.1	33255.2	33727.7	33317.1	30838.1
62.5°	4483.5	4504.8	4721.6	5209.7	7076.7	9503.4	20254.1	33177.7	34134.4	33929.1	31612.8
63°	4421.5	4440.9	4657.7	5142.0	6939.2	9185.8	19777.6	33080.9	34134.4	33991.1	31709.7
65°	4146.4	4169.8	4384.7	4826.3	6364.1	8387.8	17651.2	32478.5	34012.4	34080.2	31847.1
67.5°	3737.8	3776.5	3954.7	4340.2	5500.2	7415.6	14496.3	31849.1	33137.0	33282.2	31086.0
70°	3255.6	3263.3	3478.3	3801.8	4636.4	6307.9	11174.7	29939.5	31426.9	31490.8	29306.2
72.5°	2742.4	2763.7	2957.3	3230.5	3846.3	5223.3	7988.9	26397.2	29037.0	29397.3	26325.6
75°	2393.8	2411.2	2573.9	2765.6	3193.6	4117.4	5343.4	19248.9	25599.3	26000.3	22771.7
77.5°	2004.5	2016.1	2186.6	2318.2	2595.2	3106.5	3689.4	10156.1	17631.8	19766.0	17790.5
80°	1427.4	1429.3	1599.7	1702.4	1880.6	1909.6	2345.3	5405.4	7758.5	10026.3	11757.7
82.5°	309.9	445.5	670.1	842.5	943.2	794.1	1154.2	2961.3	4285.9	5116.8	6373.7
85°	133.7	184.0	354.4	389.3	259.6	286.6	468.7	1578.4	2450.0	2916.6	3280.8
87.5°	25.2	33.0	91.0	122.0	75.6	79.4	94.9	505.5	858.0	1007.1	1123.3
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°	8527.3	8527.3	8527.3	8527.3	8527.3	8527.3	8527.3	8527.3	8527.3	8527.3	8527.3
2.5°	8457.6	8434.4	8356.9	8304.6	8271.7	8229.1	8174.8	8103.1	8081.8	8031.5	8072.2
5°	8463.4	8401.4	8238.7	8120.6	8014.1	7921.2	7812.6	7710.0	7671.2	7603.5	7630.6
7.5°	8490.5	8385.9	8134.2	7954.0	7795.2	7669.3	7518.3	7392.4	7347.9	7270.4	7284.0
10°	8562.2	8399.5	8052.8	7833.9	7615.2	7431.2	7254.9	7082.6	7005.1	6937.3	6970.2
12.5°	8688.1	8449.8	8016.0	7735.2	7444.7	7220.0	6962.5	6741.7	6633.2	6546.0	6575.1
15°	8877.8	8546.7	7973.4	7593.9	7243.3	6950.8	6635.2	6356.2	6234.2	6166.5	6199.4
17.5°	9071.6	8688.1	7948.2	7421.4	7001.2	6621.6	6317.5	6054.1	5831.5	5781.0	5800.4
20°	9300.1	8833.3	7967.6	7239.4	6716.5	6267.2	5906.9	5730.7	5442.2	5341.5	5347.2
22.5°	9602.2	9059.9	7985.1	7061.3	6377.5	5876.0	5455.7	5281.4	5004.4	4826.3	4834.0
25°	10036.0	9340.7	8025.7	6896.6	6044.5	5446.0	4959.9	4669.4	4497.0	4270.4	4272.4
27.5°	10630.6	9726.2	8107.1	6741.7	5690.1	4952.2	4357.6	4032.2	3881.1	3732.0	3712.6
30°	11645.4	10363.3	8227.2	6571.3	5269.8	4355.7	3722.4	3437.7	3309.9	3187.9	3174.3
32.5°	13787.4	11910.7	8393.7	6356.2	4816.6	3677.9	3160.7	2936.0	2756.0	2635.9	2653.2
35°	15985.5	13849.4	9098.6	6100.6	4305.3	3085.2	2738.5	2459.6	2229.2	2136.2	2142.0
37.5°	17868.0	15606.0	10158.0	5823.6	3739.8	2703.6	2314.4	2045.2	1861.2	1814.7	1872.8
40°	19434.9	17048.8	11008.2	5531.2	3145.3	2382.1	1886.3	1739.2	1621.0	1607.4	1659.8
42.5°	20916.4	18352.2	11722.9	5194.3	2591.3	1967.7	1566.7	1601.6	1584.2	1582.3	1590.1
45°	22262.5	19560.7	12121.9	4692.6	2200.1	1611.4	1479.6	1611.4	1640.4	1636.5	1615.2
47.5°	23488.3	20664.7	12393.0	3966.4	1863.1	1510.7	1528.1	1617.2	1671.4	1681.1	1657.8
50°	24760.7	21743.4	12435.6	3087.1	1729.4	1590.1	1570.7	1559.0	1657.8	1655.9	1657.8
52.5°	25897.6	22669.1	11970.7	2399.6	1799.2	1673.3	1605.5	1537.7	1593.9	1595.9	1557.1
55°	26753.7	23428.3	11174.7	2103.3	1857.3	1743.0	1706.2	1570.7	1535.8	1512.6	1526.2
57.5°	27636.8	24106.2	10094.1	1969.6	1874.8	1758.5	1795.4	1578.4	1526.2	1419.6	1411.9
60°	28487.0	24654.2	8813.9	1880.6	1853.4	1750.7	1739.2	1638.5	1537.7	1378.9	1324.7
62.5°	29004.1	24774.3	7504.7	1793.4	1812.7	1739.2	1677.2	1683.0	1613.3	1526.2	1514.5
63°	29064.2	24733.6	7254.9	1772.0	1803.1	1737.2	1677.2	1686.8	1613.3	1561.0	1562.9
65°	28988.6	24261.1	6274.9	1681.1	1768.2	1706.2	1652.0	1603.6	1483.5	1516.4	1555.2
67.5°	28140.3	22715.6	4824.3	1533.9	1690.8	1655.9	1576.5	1456.4	1348.0	1326.7	1349.9
70°	25849.2	20184.3	3418.3	1307.3	1551.3	1592.0	1557.1	1377.0	1268.6	1249.2	1295.6
72.5°	22669.1	17525.2	2347.3	1045.8	1299.5	1481.5	1471.9	1326.7	1229.8	1173.6	1196.8
75°	19082.3	14136.0	1640.4	881.2	1001.3	1334.4	1396.3	1284.1	1210.4	1158.2	1150.4
77.5°	14691.8	10677.0	1289.9	753.4	826.9	1080.7	1284.1	1274.3	1365.4	1611.4	1557.1
80°	10008.8	7100.0	929.6	565.6	658.5	757.3	1105.9	1315.0	1727.5	1014.9	995.5
82.5°	5817.9	4171.7	581.0	375.7	393.1	515.1	693.4	1388.6	1156.2	457.0	577.1
85°	2810.1	1816.7	290.5	259.6	180.1	193.6	321.5	1293.7	819.2	203.4	40.7
87.5°	896.7	441.6	30.9	23.2	27.1	38.7	153.0	790.2	482.3	174.4	25.2
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)