

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: P285792

Luminaire Tested: **USSL-XL-C04-D-U-T3-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)
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-T3-BZ
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36304 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

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

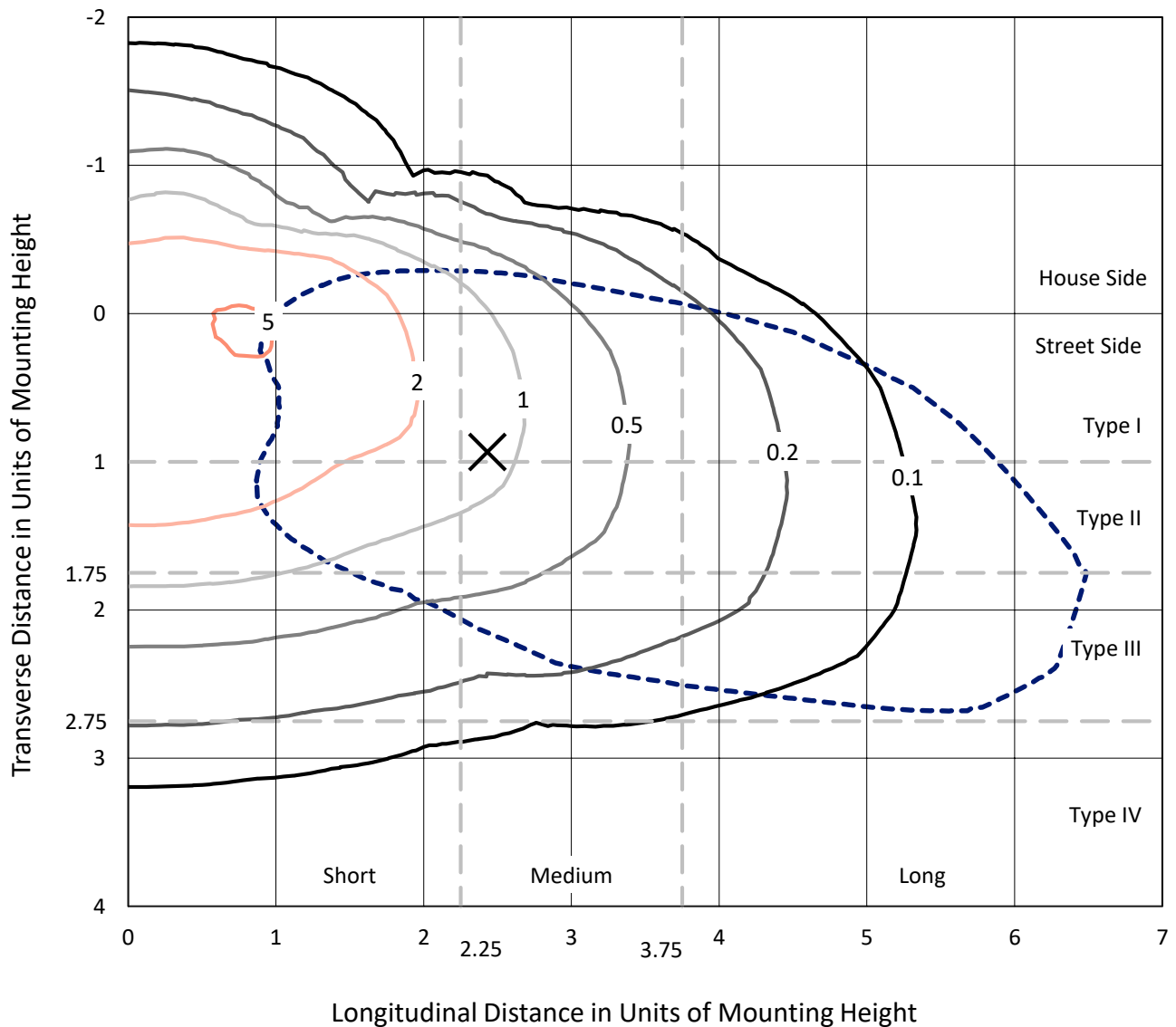


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

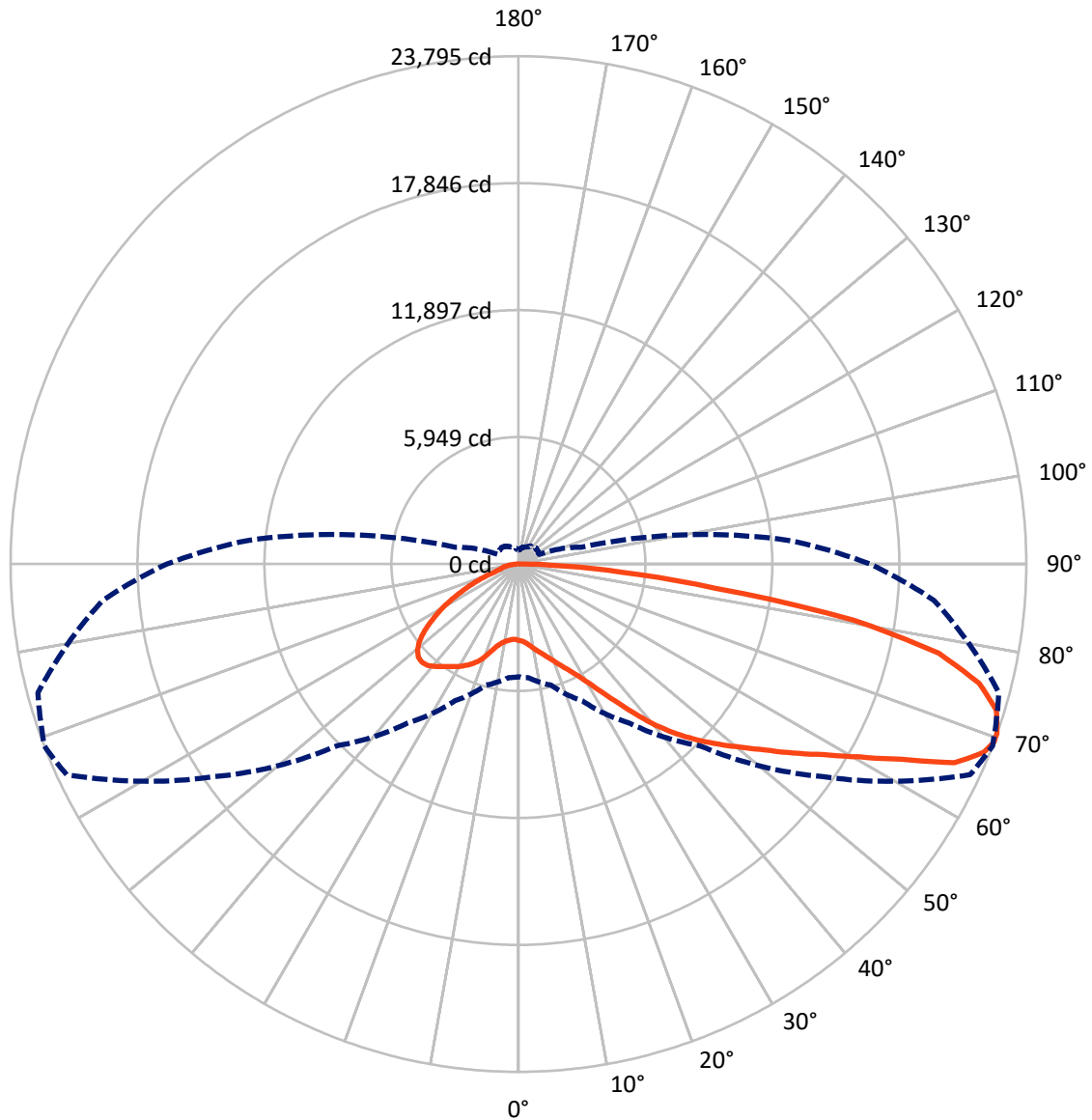


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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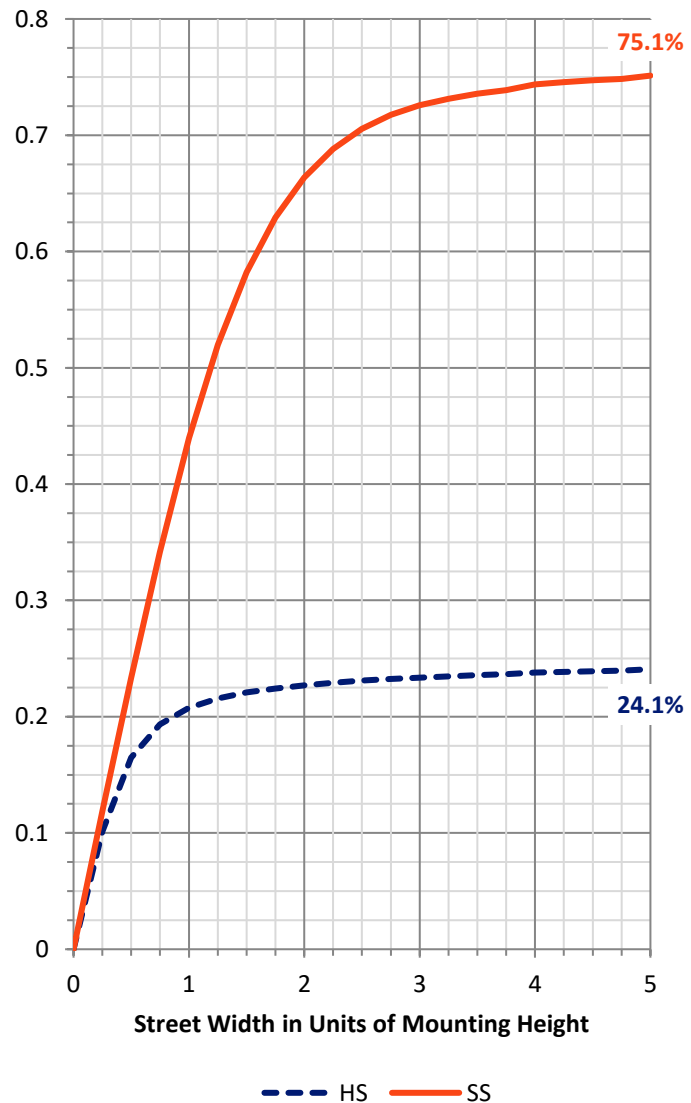
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8925.4	0.0	8925.4
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	27378.5	0.0	27378.5
	% Fixture	75.4	0.0	75.4
Total	Lumens	36304.0	0.0	36304.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.8	1.0
10°-20°	1149.9	3.2
20°-30°	2153.5	5.9
30°-40°	3659.1	10.1
40°-50°	5615.1	15.5
50°-60°	7336.4	20.2
60°-70°	8353.8	23.0
70°-80°	6307.0	17.4
80°-90°	1376.4	3.8
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°	36304.0	100.0
0°-180°	36304.0	100.0



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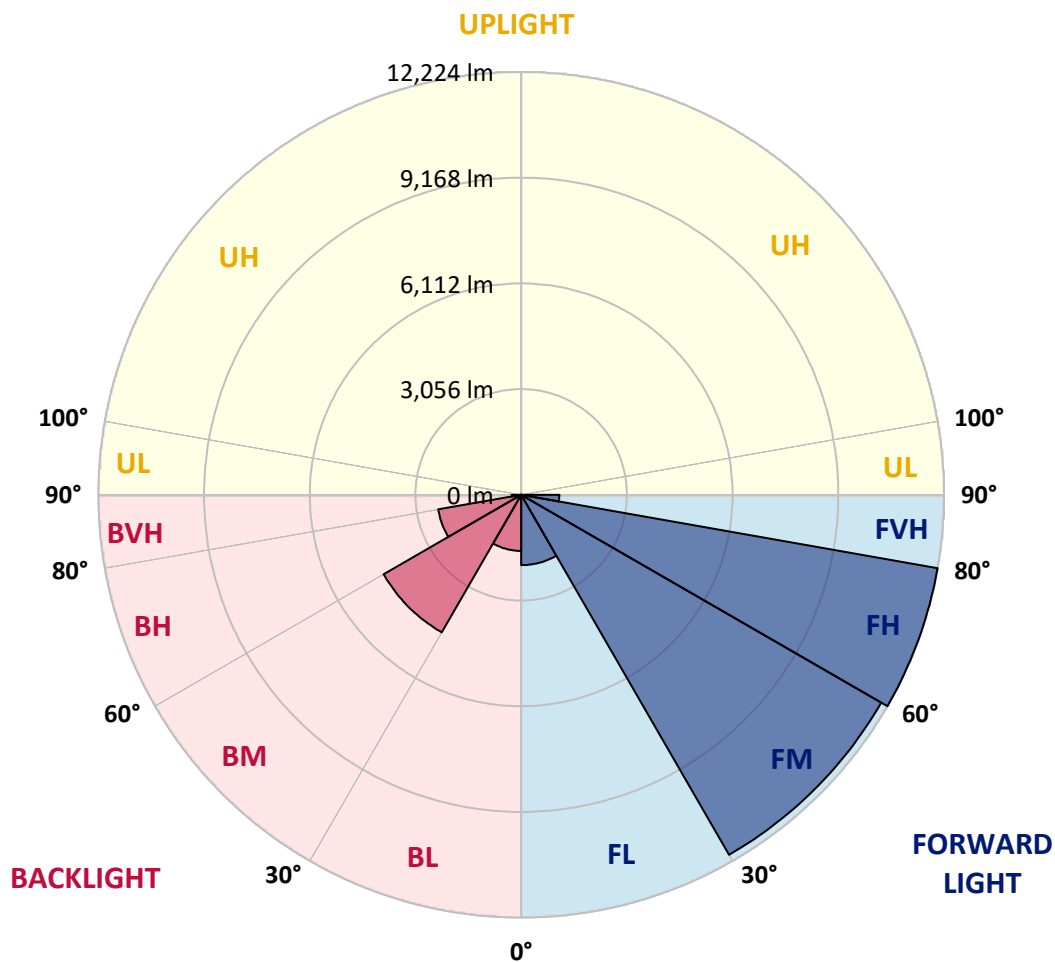
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2033.3	5.6			
FM	(30°-60°)	12018.0	33.1			
FH	(60°-80°)	12223.7	33.7			G5
FVH	(80°-90°)	1103.5	3.0			G5
BL	(0°-30°)	1622.9	4.5	B3/2500		
BM	(30°-60°)	4592.5	12.7	B3/5000		
BH	(60°-80°)	2437.1	6.7	B3/2500		G3/2500
BVH	(80°-90°)	272.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7
2.5°	3717.9	3729.1	3727.7	3722.1	3719.3	3704.0	3684.6	3659.6	3617.9	3598.4	3573.4
5°	3876.4	3884.7	3886.1	3876.4	3865.3	3841.6	3801.3	3762.4	3716.5	3688.7	3640.1
7.5°	4011.2	4018.1	4030.7	4022.3	4016.8	3997.3	3958.4	3912.5	3852.7	3813.8	3745.7
10°	4119.6	4125.2	4134.9	4148.8	4175.2	4158.5	4112.7	4080.7	4026.5	3966.7	3881.9
12.5°	4197.4	4193.3	4221.1	4246.1	4300.3	4318.4	4286.4	4262.8	4209.9	4148.8	4048.7
15°	4233.6	4232.2	4280.8	4343.4	4424.0	4453.2	4453.2	4426.8	4397.6	4350.3	4244.7
17.5°	4311.4	4317.0	4348.9	4429.6	4515.7	4583.8	4649.2	4651.9	4629.7	4597.7	4487.9
20°	4430.9	4440.7	4457.3	4521.3	4617.2	4736.7	4859.0	4903.5	4892.4	4879.9	4793.7
22.5°	4581.0	4585.2	4581.0	4636.6	4764.5	4925.7	5102.3	5175.9	5182.9	5184.3	5141.2
25°	4821.5	4803.4	4757.6	4807.6	4956.3	5142.6	5358.0	5480.3	5512.3	5541.5	5644.3
27.5°	5260.7	5219.0	5132.8	5116.2	5200.9	5405.2	5672.1	5876.4	5922.3	6002.9	6276.7
30°	5969.5	5913.9	5833.3	5587.3	5554.0	5729.1	6068.2	6360.1	6451.8	6696.4	7011.9
32.5°	6688.1	6652.0	6561.6	6325.3	6075.2	6140.5	6474.1	6929.9	7127.3	7622.1	7914.0
35°	7305.2	7287.1	7235.7	7120.4	6829.9	6646.4	6936.9	7570.7	7939.0	8711.8	8974.5
37.5°	7900.1	7891.7	7894.5	7737.5	7615.2	7351.1	7467.8	8318.4	8923.0	9852.9	10029.4
40°	8419.9	8424.1	8467.2	8394.9	8374.0	8210.0	8093.3	9116.2	9944.6	10981.4	11023.1
42.5°	8846.6	8850.8	9050.9	8942.5	9071.8	9035.6	8867.4	9861.2	10884.2	11894.6	11889.0
45°	9127.3	9134.3	9331.7	9419.2	9693.0	9812.6	9687.5	10625.6	11761.2	12739.6	12629.8
47.5°	9335.8	9330.3	9442.9	9795.9	10262.9	10499.2	10545.0	11494.3	12611.8	13522.2	13331.7
50°	9448.4	9460.9	9676.4	10147.5	10836.9	11166.3	11417.9	12520.0	13484.6	14276.9	14008.6
52.5°	9519.3	9581.8	9897.3	10457.5	11355.3	11871.0	12186.5	13657.0	14468.7	15060.7	14725.8
55°	9569.3	9683.3	9994.6	10620.1	11677.8	12442.2	12907.8	14830.0	15630.6	15948.9	15512.5
57.5°	9212.1	9321.9	9827.8	10645.1	11932.1	12912.0	13676.4	16068.4	16842.6	17044.1	16290.8
60°	8602.0	8667.3	9319.2	10449.1	11876.5	13338.7	14685.5	17537.5	18347.8	18363.1	17110.8
62.5°	7973.7	8000.2	8659.0	9937.6	11626.4	13479.1	15694.5	19495.9	20132.4	19937.8	17982.3
65°	7139.8	7169.0	7848.7	9096.8	11021.8	13323.4	16520.1	21559.8	22450.7	21930.9	18846.8
67.5°	6050.2	6114.1	6745.1	7901.5	9946.0	12721.6	17112.2	22981.7	23527.9	23080.4	19444.4
69°	5287.1	5346.9	5876.4	7074.5	9107.9	12043.3	17361.0	23356.9	23794.8	23306.9	19544.5
70°	4738.1	4784.0	5280.2	6456.0	8451.9	11463.7	17415.2	23458.4	23780.9	23315.3	19490.3
72.5°	3377.4	3416.3	3686.0	4517.1	6406.0	9602.7	17149.7	23183.2	23419.5	22748.2	18780.1
75°	2497.6	2528.2	2689.4	2984.1	3729.1	6795.1	15495.8	22039.3	22290.9	21508.4	17299.8
77.5°	1812.4	1837.4	1993.1	2280.8	2624.1	3199.5	10742.4	19890.6	20138.0	19509.8	14892.6
80°	1237.0	1263.4	1403.8	1647.0	1918.0	2129.3	5274.6	14557.6	15921.1	15615.3	10613.1
82.5°	232.1	284.9	603.2	854.8	1078.5	1153.6	1994.5	8004.3	9301.1	9487.3	5534.5
85°	154.3	166.8	368.3	358.6	351.6	515.6	781.1	3837.5	4854.9	5030.0	2389.2
87.5°	76.4	80.6	109.8	151.5	193.2	232.1	257.1	1011.8	1462.2	1567.8	446.2
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°	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7
2.5°	3563.7	3556.7	3535.9	3527.5	3522.0	3519.2	3485.8	3480.3	3463.6	3452.5	3442.7
5°	3616.5	3605.4	3556.7	3538.6	3510.8	3487.2	3431.6	3408.0	3391.3	3369.1	3359.3
7.5°	3709.6	3690.1	3616.5	3583.1	3534.5	3494.2	3417.7	3381.6	3349.6	3319.0	3313.5
10°	3836.1	3799.9	3698.5	3647.0	3576.2	3528.9	3440.0	3370.5	3323.2	3288.5	3287.1
12.5°	4001.5	3947.3	3825.0	3756.8	3669.3	3597.0	3495.6	3391.3	3313.5	3257.9	3255.1
15°	4198.8	4141.8	4018.1	3930.6	3827.7	3730.4	3567.8	3413.5	3284.3	3195.3	3184.2
17.5°	4440.7	4386.5	4273.9	4203.0	4058.5	3866.6	3635.9	3405.2	3220.4	3098.0	3080.0
20°	4746.4	4761.7	4656.1	4501.8	4261.4	3979.2	3669.3	3362.1	3093.9	2922.9	2897.9
22.5°	5173.1	5224.6	5048.0	4764.5	4415.7	4039.0	3655.4	3248.2	2920.1	2713.0	2692.2
25°	5695.7	5680.4	5362.2	4957.7	4494.9	4037.6	3577.6	3085.5	2699.1	2465.6	2450.4
27.5°	6242.0	6150.2	5658.2	5092.5	4508.8	3961.2	3424.7	2840.9	2444.8	2250.2	2204.4
30°	6938.3	6682.5	5961.2	5206.5	4462.9	3815.2	3148.1	2606.0	2298.9	2087.6	2057.0
32.5°	7743.0	7317.7	6301.7	5241.2	4361.4	3591.5	2847.9	2497.6	2203.0	1962.5	1927.8
35°	8678.4	8130.8	6696.4	5253.7	4168.3	3259.3	2685.2	2435.1	2139.0	1866.6	1820.7
37.5°	9656.9	8992.5	7182.9	5239.9	3943.1	2895.1	2571.3	2344.7	2066.8	1844.4	1818.0
40°	10540.9	9822.3	7731.9	5200.9	3634.5	2658.8	2447.6	2219.6	2004.2	1836.0	1815.2
42.5°	11351.2	10545.0	8257.3	5135.6	3249.5	2490.7	2311.4	2126.5	1925.0	1719.3	1677.6
45°	12053.0	11212.2	8646.4	4979.9	2818.7	2318.3	2147.4	1997.3	1806.8	1602.5	1560.8
47.5°	12654.9	11762.6	8952.2	4713.1	2471.2	2157.1	1961.1	1843.0	1676.2	1481.6	1439.9
50°	13269.2	12210.1	9131.5	4272.5	2180.7	1972.2	1776.3	1663.7	1520.5	1378.8	1353.7
52.5°	13928.0	12937.0	9392.8	3547.0	1912.5	1777.7	1580.3	1458.0	1352.4	1292.6	1269.0
55°	14593.7	13581.9	9488.7	2682.5	1677.6	1624.8	1395.4	1237.0	1161.9	1124.4	1118.9
57.5°	15255.3	14132.3	9160.7	1909.7	1521.9	1448.3	1198.1	1048.0	959.0	985.4	1025.7
60°	15932.2	14534.0	8322.6	1494.1	1399.6	1237.0	1031.3	920.1	881.2	852.0	853.4
62.5°	16557.7	14721.6	6896.6	1269.0	1281.5	1106.3	972.9	864.5	825.6	775.6	760.3
65°	16973.2	14390.8	5383.0	1174.4	1174.4	1073.0	970.1	865.9	813.1	725.5	710.2
67.5°	16853.7	13529.1	3983.4	1089.7	1106.3	1086.9	993.8	863.1	797.8	714.4	708.8
69°	16468.7	12703.5	3059.1	1064.6	1095.2	1099.4	1021.6	877.0	814.5	688.0	657.4
70°	16082.3	12066.9	2532.4	1043.8	1092.4	1107.7	1043.8	893.7	802.0	646.3	626.8
72.5°	14768.9	10198.9	1275.9	963.2	1088.3	1117.5	1092.4	956.2	795.0	622.7	606.0
75°	12984.3	7844.5	818.6	895.1	1053.5	1128.6	1131.4	1014.6	797.8	608.8	587.9
77.5°	10403.3	4547.7	679.7	818.6	988.2	1106.3	1143.9	1059.1	831.1	632.4	608.8
80°	5531.7	1798.5	546.2	699.1	904.8	1039.6	1109.1	1043.8	822.8	528.2	512.9
82.5°	2449.0	558.7	400.3	549.0	711.6	909.0	942.3	918.7	720.0	319.7	365.5
85°	688.0	230.7	266.9	394.7	492.0	643.5	738.0	740.8	558.7	139.0	32.0
87.5°	70.9	52.8	77.8	151.5	283.5	446.2	539.3	517.0	373.9	118.1	2.8
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)