

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: P285795

Luminaire Tested: **USSL-XL-C047-D-U-T3-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285795
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-C047-D-U-T3-AP-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE III OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28187 lumens
Efficiency: N/A
Efficacy: 160.2 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): 176
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

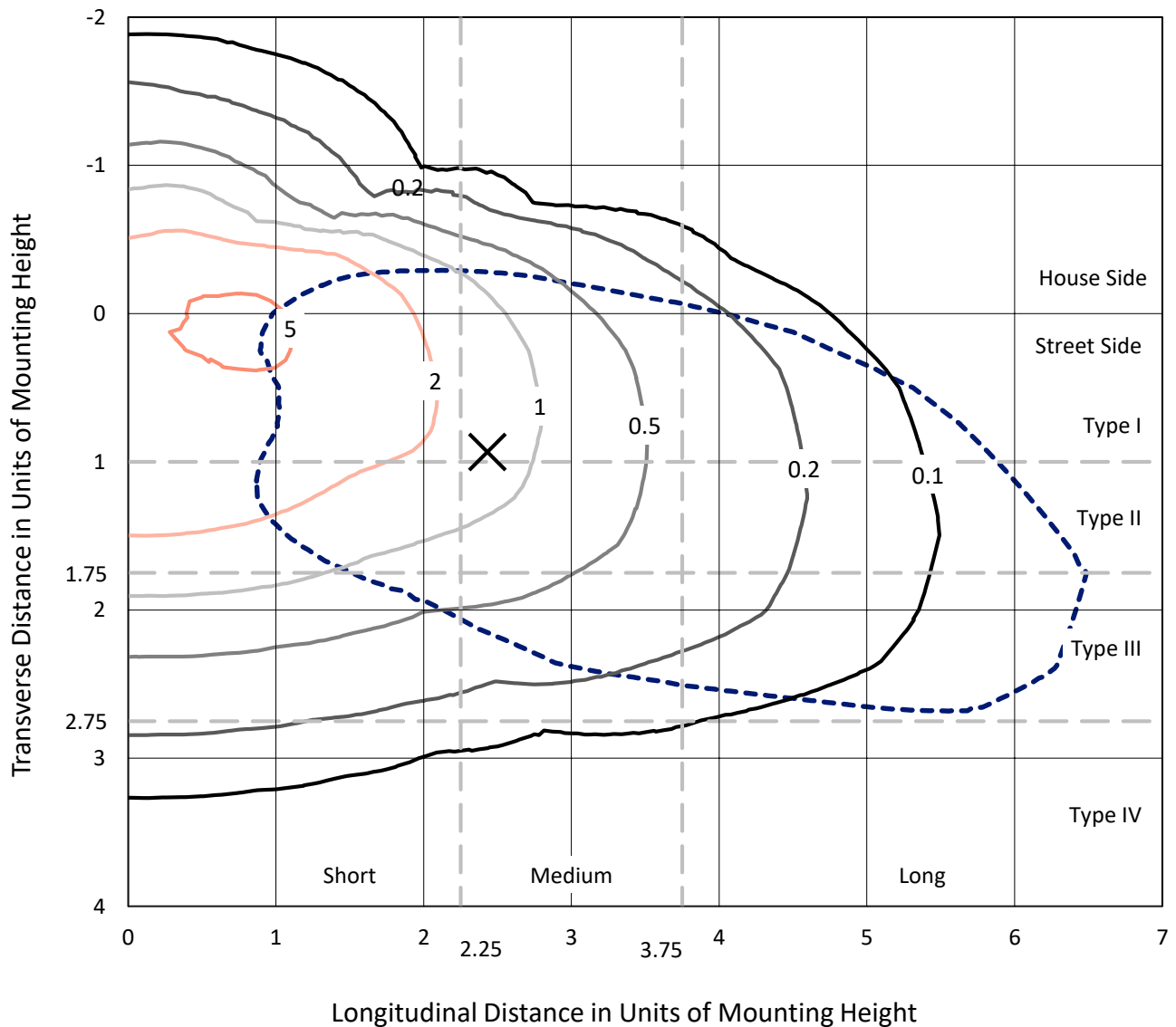


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

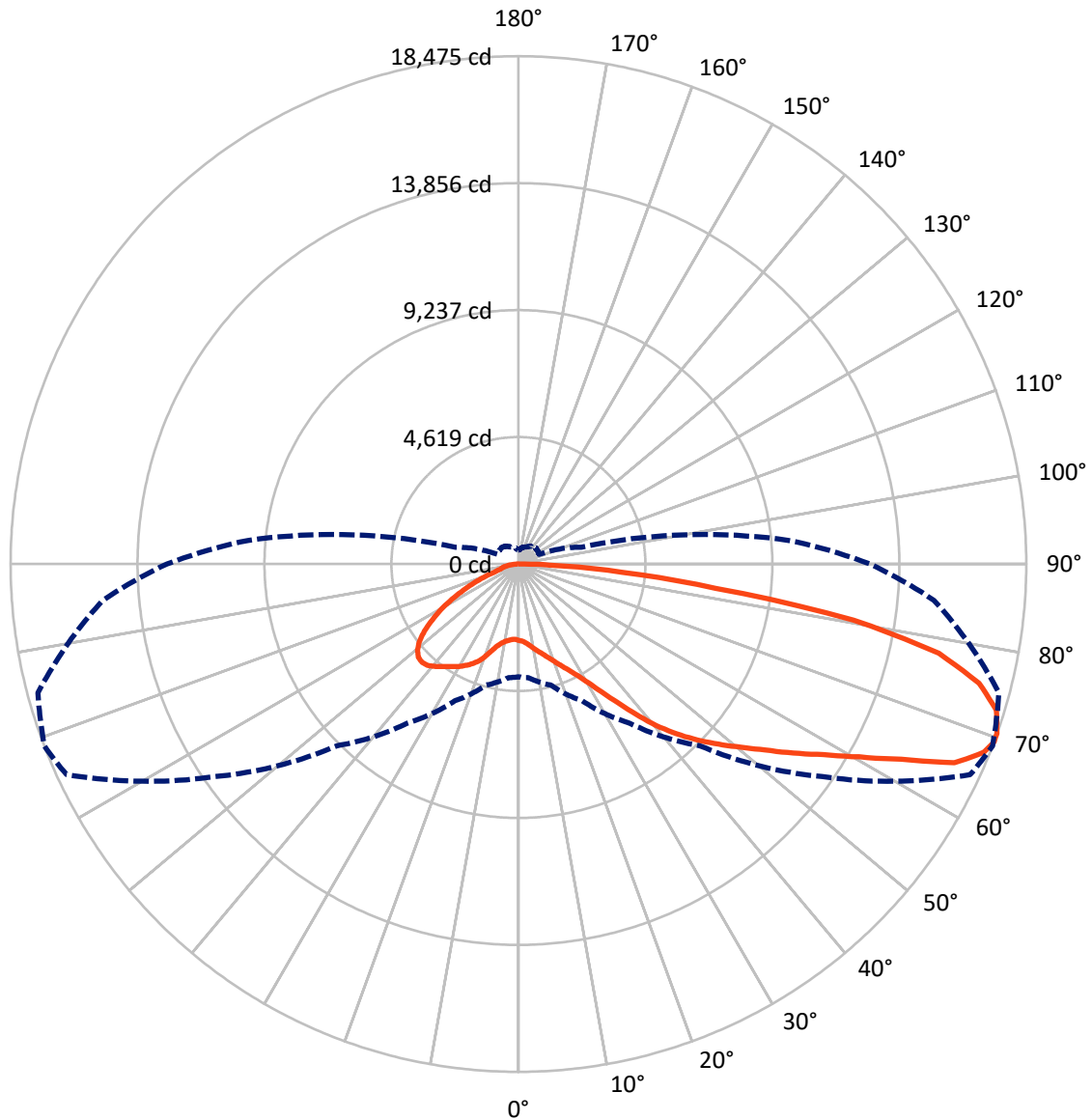


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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



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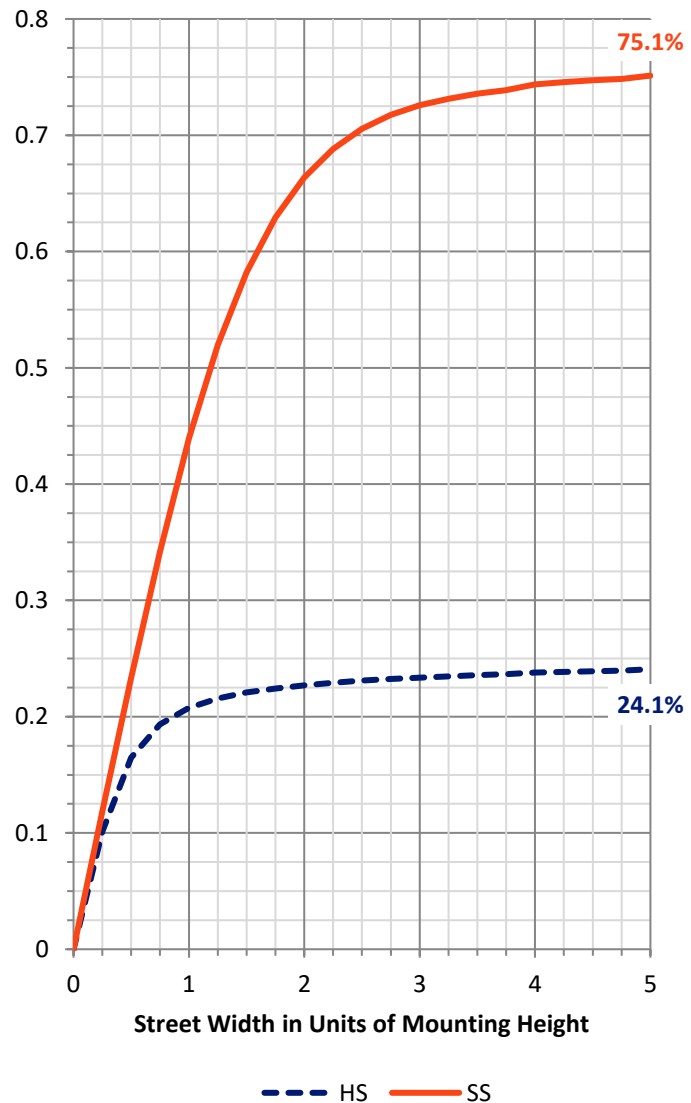
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6929.9	0.0	6929.9
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	21257.1	0.0	21257.1
	% Fixture	75.4	0.0	75.4
Total	Lumens	28187.0	0.0	28187.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	1.0
10°-20°	892.8	3.2
20°-30°	1672.0	5.9
30°-40°	2841.0	10.1
40°-50°	4359.6	15.5
50°-60°	5696.1	20.2
60°-70°	6486.0	23.0
70°-80°	4896.8	17.4
80°-90°	1068.7	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°	28187.0	100.0
0°-180°	28187.0	100.0



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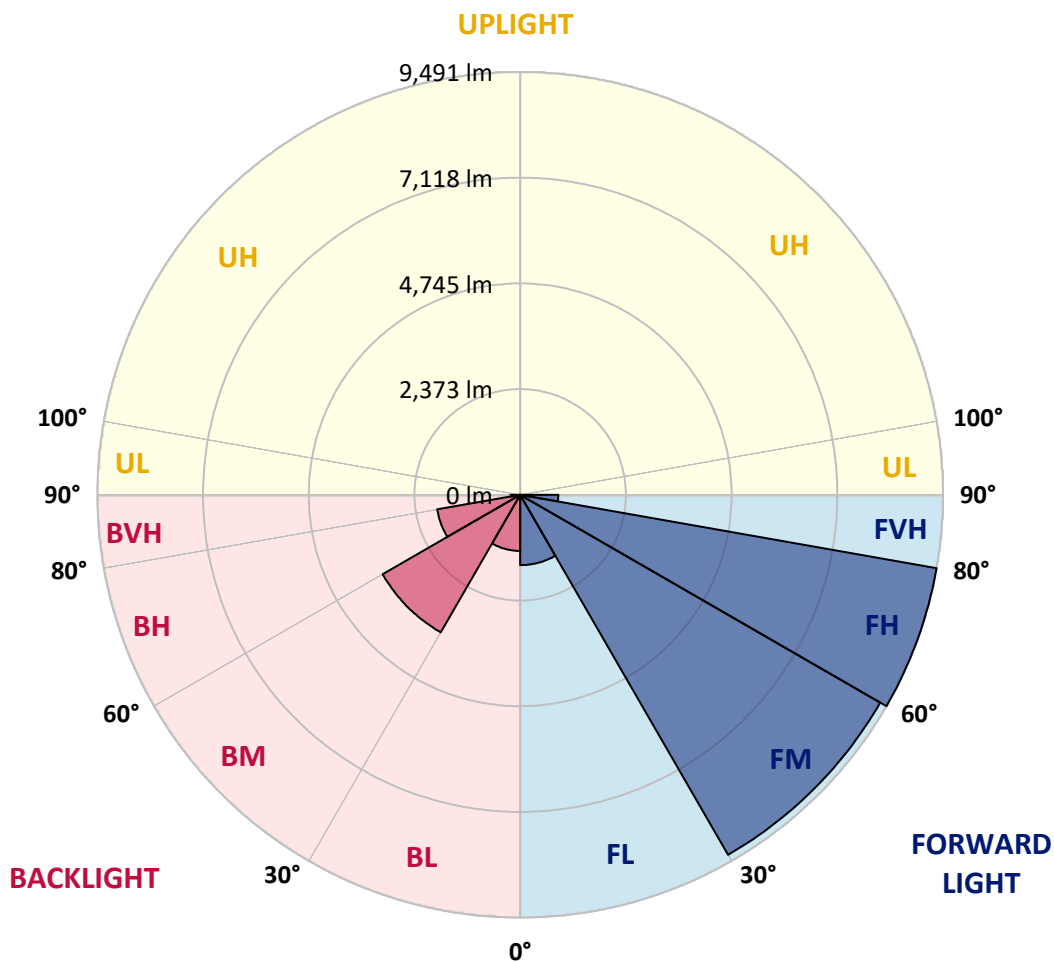
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1578.7	5.6			
FM	(30°-60°)	9331.0	33.1			
FH	(60°-80°)	9490.7	33.7			G4/12000
FVH	(80°-90°)	856.8	3.0			G5
BL	(0°-30°)	1260.0	4.5	B3/2500		
BM	(30°-60°)	3565.7	12.7	B3/5000		
BH	(60°-80°)	1892.2	6.7	B3/2500		G3/2500
BVH	(80°-90°)	211.9	0.8			G2/225
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°	2780.9	2780.9	2780.9	2780.9	2780.9	2780.9	2780.9	2780.9	2780.9	2780.9	2780.9
2.5°	2886.6	2895.3	2894.2	2889.9	2887.7	2875.8	2860.8	2841.4	2808.9	2793.9	2774.4
5°	3009.7	3016.2	3017.2	3009.7	3001.0	2982.7	2951.4	2921.2	2885.6	2864.0	2826.2
7.5°	3114.3	3119.7	3129.5	3123.0	3118.6	3103.6	3073.4	3037.8	2991.4	2961.1	2908.3
10°	3198.6	3202.8	3210.4	3221.1	3241.7	3228.8	3193.2	3168.4	3126.2	3079.9	3014.0
12.5°	3259.0	3255.7	3277.3	3296.7	3338.8	3352.9	3328.0	3309.6	3268.6	3221.1	3143.5
15°	3287.0	3285.9	3323.7	3372.3	3434.8	3457.5	3457.5	3437.0	3414.4	3377.7	3295.7
17.5°	3347.5	3351.7	3376.6	3439.2	3506.0	3558.9	3609.7	3611.8	3594.5	3569.7	3484.5
20°	3440.2	3447.9	3460.8	3510.4	3584.9	3677.6	3772.6	3807.2	3798.5	3788.8	3721.9
22.5°	3556.8	3560.0	3556.8	3600.0	3699.3	3824.4	3961.5	4018.6	4024.0	4025.2	3991.7
25°	3743.5	3729.5	3693.9	3732.6	3848.2	3992.7	4160.0	4255.0	4279.8	4302.5	4382.4
27.5°	4084.5	4052.1	3985.2	3972.3	4038.1	4196.7	4403.9	4562.6	4598.2	4660.7	4873.3
30°	4634.8	4591.7	4529.1	4338.1	4312.2	4448.2	4711.5	4938.1	5009.3	5199.2	5444.2
32.5°	5192.8	5164.7	5094.5	4911.0	4716.9	4767.5	5026.6	5380.5	5533.7	5918.0	6144.6
35°	5671.8	5657.9	5617.9	5528.3	5302.8	5160.3	5385.9	5878.0	6164.0	6764.0	6967.9
37.5°	6133.7	6127.3	6129.4	6007.5	5912.5	5707.5	5798.2	6458.6	6927.9	7649.9	7787.0
40°	6537.4	6540.5	6574.0	6518.0	6501.7	6374.3	6283.7	7078.0	7721.2	8526.2	8558.6
42.5°	6868.7	6871.9	7027.2	6943.1	7043.5	7015.4	6884.8	7656.4	8450.6	9235.1	9230.9
45°	7086.6	7092.0	7245.3	7313.2	7525.8	7618.7	7521.5	8249.9	9131.6	9891.3	9806.0
47.5°	7248.4	7244.2	7331.5	7605.6	7968.2	8151.7	8187.3	8924.4	9792.0	10498.8	10351.0
50°	7335.9	7345.6	7512.9	7878.7	8413.9	8669.7	8865.0	9720.8	10469.7	11084.8	10876.5
52.5°	7390.9	7439.4	7684.5	8119.4	8816.5	9216.8	9461.7	10603.5	11233.7	11693.3	11433.4
55°	7429.8	7518.3	7760.0	8245.6	9066.8	9660.4	10021.9	11514.2	12135.9	12382.9	12044.1
57.5°	7152.4	7237.7	7630.5	8265.0	9264.3	10025.1	10618.6	12475.8	13076.8	13233.3	12648.4
60°	6678.7	6729.4	7235.5	8112.9	9221.1	10356.4	11402.0	13616.4	14245.5	14257.4	13285.1
62.5°	6191.0	6211.4	6722.9	7715.8	9026.9	10465.3	12185.5	15136.9	15631.1	15480.1	13961.7
65°	5543.5	5566.2	6093.8	7062.9	8557.4	10344.5	12826.5	16739.4	17431.1	17027.5	14633.0
67.5°	4697.5	4747.1	5237.0	6134.8	7722.2	9877.2	13286.2	17843.3	18267.4	17919.9	15097.0
69°	4105.0	4151.4	4562.6	5492.7	7071.5	9350.6	13479.4	18134.7	18474.6	18095.9	15174.7
70°	3678.7	3714.3	4099.6	5012.6	6562.2	8900.6	13521.5	18213.4	18463.8	18102.4	15132.6
72.5°	2622.3	2652.5	2861.8	3507.1	4973.7	7455.7	13315.3	17999.8	18183.2	17662.1	14581.2
75°	1939.2	1962.9	2088.1	2316.8	2895.3	5275.9	12031.1	17111.7	17307.0	16699.5	13431.9
77.5°	1407.2	1426.6	1547.5	1770.9	2037.3	2484.2	8340.6	15443.4	15635.4	15147.7	11562.9
80°	960.4	980.9	1089.9	1278.8	1489.2	1653.2	4095.2	11302.8	12361.4	12124.0	8240.2
82.5°	180.2	221.2	468.4	663.7	837.4	895.7	1548.5	6214.7	7221.5	7366.1	4297.0
85°	119.8	129.5	286.0	278.4	273.0	400.3	606.5	2979.5	3769.4	3905.3	1855.0
87.5°	59.4	62.6	85.2	117.6	150.0	180.2	199.7	785.6	1135.3	1217.3	346.4
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°	2780.9	2780.9	2780.9	2780.9	2780.9	2780.9	2780.9	2780.9	2780.9	2780.9	2780.9
2.5°	2766.9	2761.5	2745.2	2738.8	2734.5	2732.3	2706.5	2702.1	2689.2	2680.6	2673.0
5°	2807.9	2799.3	2761.5	2747.5	2725.9	2707.5	2664.4	2646.0	2633.1	2615.8	2608.2
7.5°	2880.2	2865.1	2807.9	2782.0	2744.2	2712.9	2653.6	2625.5	2600.7	2576.9	2572.6
10°	2978.4	2950.3	2871.6	2831.6	2776.6	2739.9	2670.8	2616.9	2580.2	2553.2	2552.1
12.5°	3106.8	3064.7	2969.7	2916.8	2848.9	2792.7	2714.0	2633.1	2572.6	2529.5	2527.3
15°	3260.0	3215.8	3119.7	3051.8	2972.0	2896.4	2770.2	2650.3	2550.0	2480.9	2472.3
17.5°	3447.9	3405.7	3318.3	3263.3	3151.1	3002.2	2822.9	2643.8	2500.3	2405.3	2391.3
20°	3685.2	3697.0	3615.1	3495.2	3308.6	3089.5	2848.9	2610.4	2402.2	2269.4	2250.0
22.5°	4016.5	4056.4	3919.4	3699.3	3428.4	3135.9	2838.1	2521.9	2267.2	2106.4	2090.2
25°	4422.2	4410.3	4163.3	3849.2	3489.9	3134.9	2777.7	2395.7	2095.6	1914.4	1902.5
27.5°	4846.4	4775.2	4393.1	3954.0	3500.6	3075.5	2659.0	2205.8	1898.2	1747.1	1711.5
30°	5386.9	5188.4	4628.4	4042.4	3465.0	2962.2	2444.2	2023.3	1784.9	1620.8	1597.1
32.5°	6011.8	5681.6	4892.7	4069.4	3386.3	2788.5	2211.2	1939.2	1710.4	1523.7	1496.8
35°	6738.1	6312.9	5199.2	4079.1	3236.3	2530.5	2084.8	1890.6	1660.8	1449.3	1413.7
37.5°	7497.7	6982.0	5576.9	4068.3	3061.5	2247.8	1996.4	1820.5	1604.7	1432.0	1411.5
40°	8184.1	7626.2	6003.2	4038.1	2821.9	2064.4	1900.3	1723.4	1556.1	1425.6	1409.3
42.5°	8813.2	8187.3	6411.1	3987.3	2523.0	1933.8	1794.6	1651.1	1494.6	1334.8	1302.5
45°	9358.2	8705.3	6713.2	3866.5	2188.5	1800.0	1667.2	1550.7	1402.9	1244.2	1211.9
47.5°	9825.4	9132.6	6950.6	3659.3	1918.6	1674.9	1522.7	1431.0	1301.5	1150.3	1118.0
50°	10302.4	9480.1	7089.9	3317.3	1693.2	1531.2	1379.1	1291.7	1180.5	1070.5	1051.1
52.5°	10813.9	10044.5	7292.7	2753.9	1484.9	1380.2	1226.9	1132.0	1049.9	1003.6	985.3
55°	11330.9	10545.2	7367.2	2082.7	1302.5	1261.5	1083.4	960.4	902.2	873.0	868.7
57.5°	11844.5	10972.5	7112.5	1482.7	1181.7	1124.4	930.2	813.7	744.6	765.1	796.4
60°	12370.0	11284.4	6461.8	1160.1	1086.7	960.4	800.8	714.4	684.2	661.5	662.5
62.5°	12855.6	11430.1	5354.6	985.3	994.9	858.9	755.4	671.2	641.0	602.1	590.3
65°	13178.3	11173.3	4179.4	911.8	911.8	833.1	753.3	672.3	631.3	563.3	551.5
67.5°	13085.4	10504.2	3092.8	846.0	858.9	843.9	771.6	670.2	619.4	554.6	550.4
69°	12786.5	9863.2	2375.1	826.6	850.4	853.5	793.1	680.9	632.3	534.2	510.4
70°	12486.6	9369.0	1966.1	810.4	848.2	860.1	810.4	693.9	622.7	501.8	486.7
72.5°	11466.7	7918.6	990.7	747.9	845.0	867.6	848.2	742.5	617.3	483.4	470.5
75°	10081.1	6090.6	635.6	695.0	817.9	876.2	878.4	787.7	619.4	472.6	456.5
77.5°	8077.3	3530.8	527.7	635.6	767.3	858.9	888.1	822.3	645.3	491.1	472.6
80°	4294.9	1396.4	424.1	542.8	702.5	807.2	861.2	810.4	638.8	410.1	398.2
82.5°	1901.5	433.8	310.8	426.3	552.5	705.8	731.6	713.3	559.0	248.2	283.8
85°	534.2	179.1	207.2	306.5	382.0	499.6	573.0	575.2	433.8	107.9	24.8
87.5°	55.0	41.0	60.4	117.6	220.1	346.4	418.7	401.4	290.3	91.7	2.1
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)