

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: P285785

Luminaire Tested: **USSL-XL-C047-D-U-T3-BZ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285785
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-BZ-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25646 lumens
Efficiency: N/A
Efficacy: 145.7 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

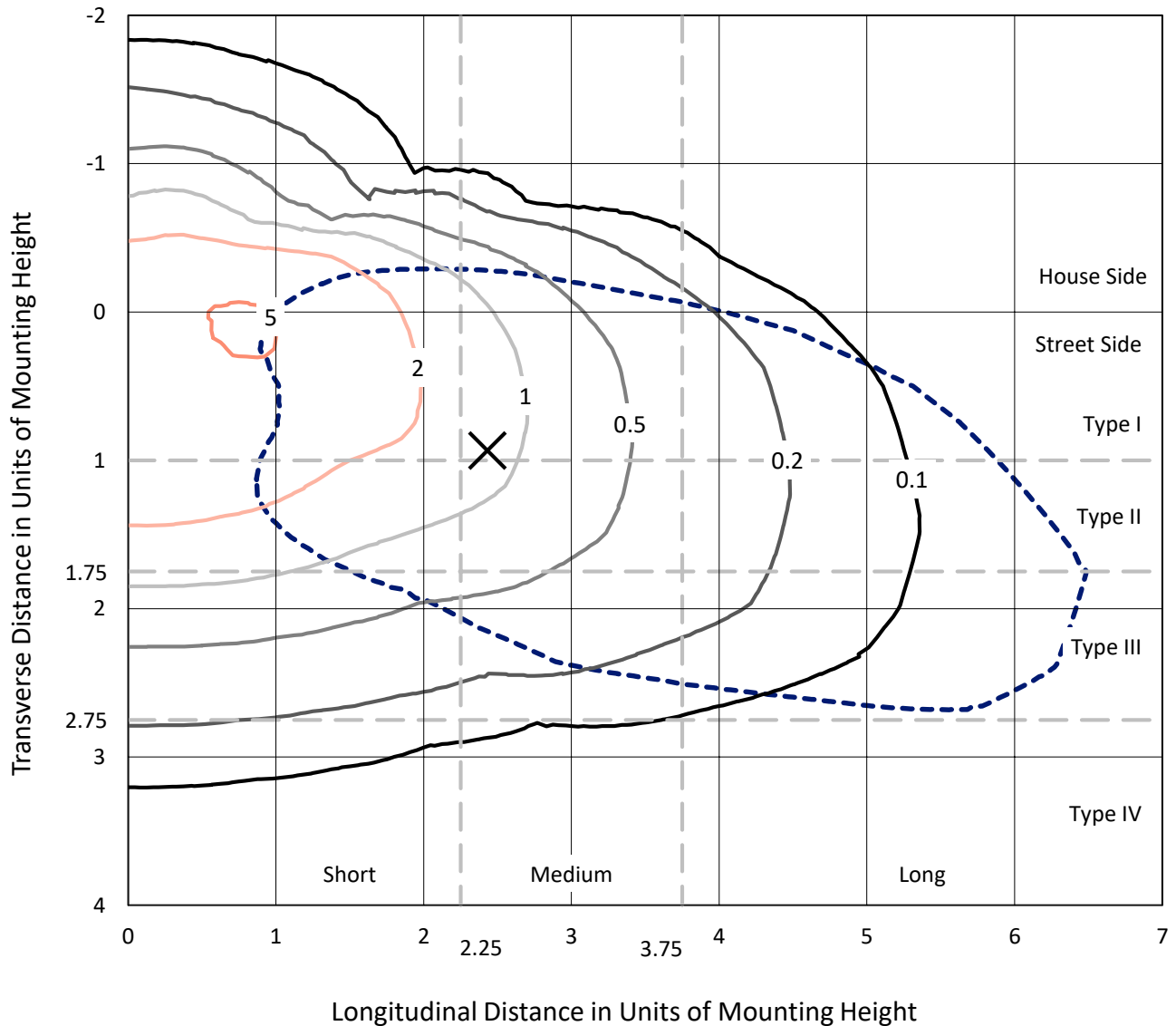


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

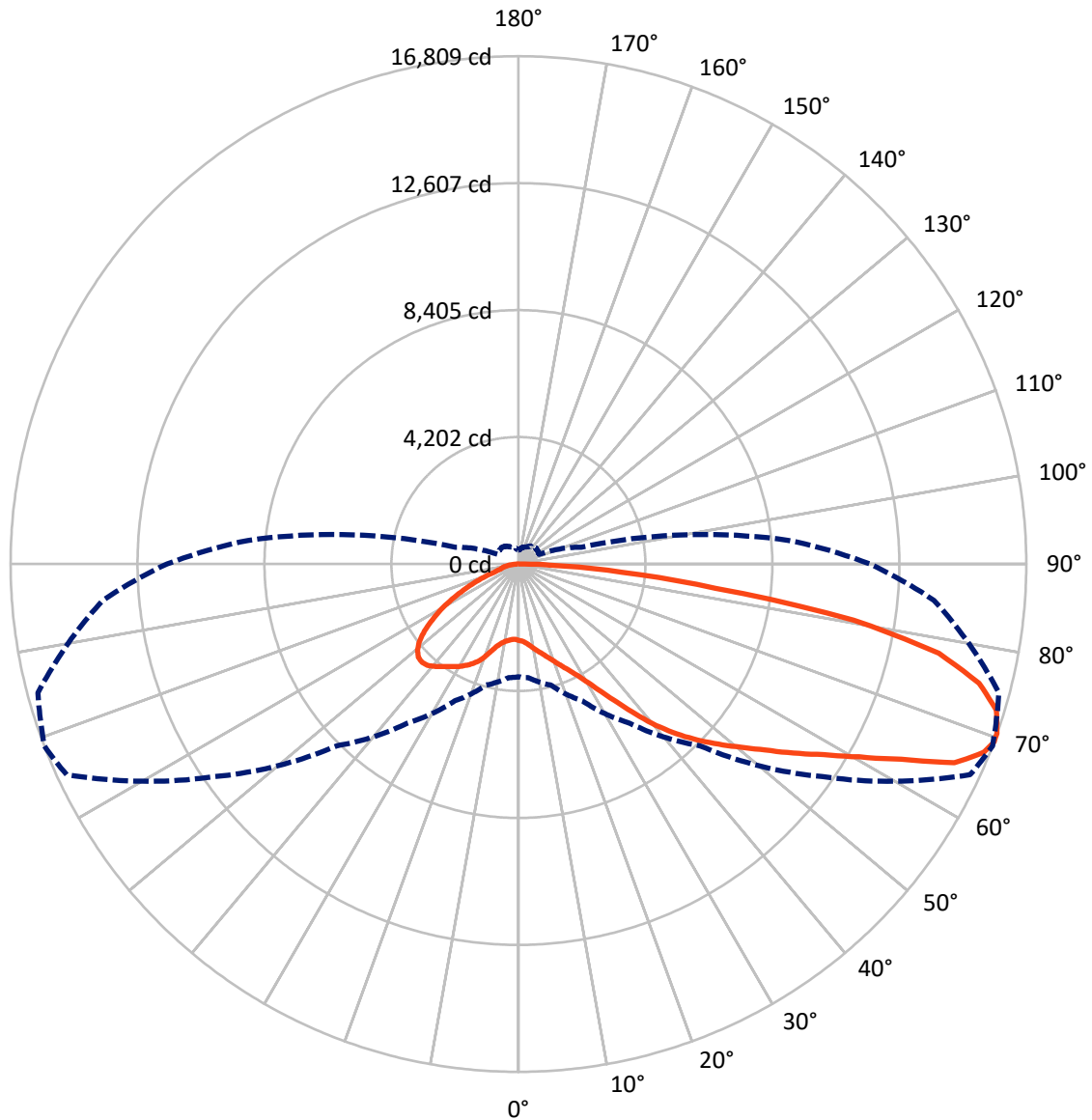


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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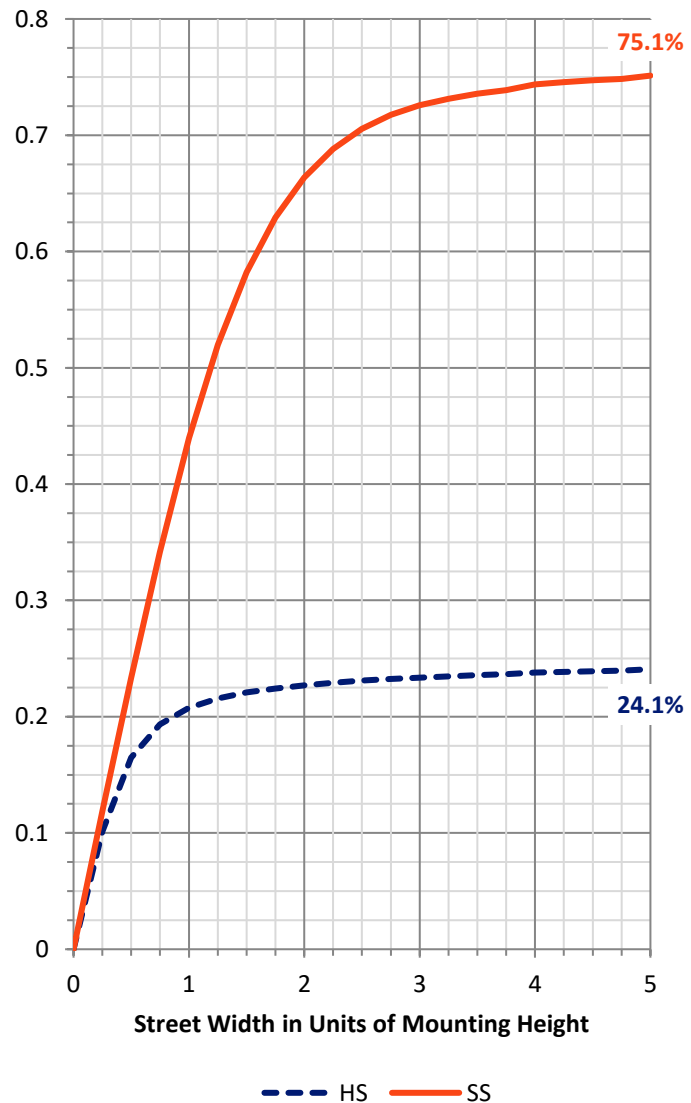
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6305.2	0.0	6305.2
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	19340.9	0.0	19340.9
	% Fixture	75.4	0.0	75.4
Total	Lumens	25646.0	0.0	25646.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	1.0
10°-20°	812.3	3.2
20°-30°	1521.3	5.9
30°-40°	2584.9	10.1
40°-50°	3966.6	15.5
50°-60°	5182.6	20.2
60°-70°	5901.3	23.0
70°-80°	4455.4	17.4
80°-90°	972.3	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°	25646.0	100.0
0°-180°	25646.0	100.0



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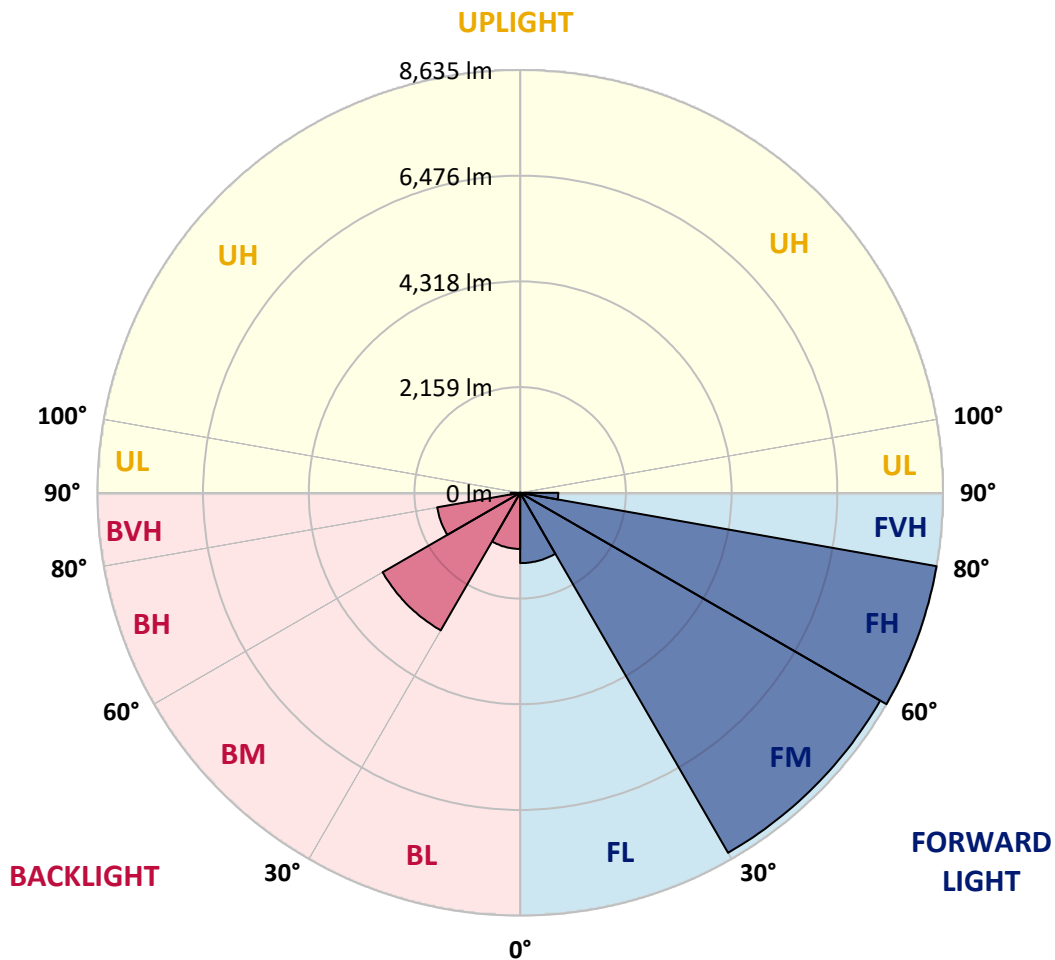
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1436.4	5.6			
FM	(30°-60°)	8489.8	33.1			
FH	(60°-80°)	8635.1	33.7			G4/12000
FVH	(80°-90°)	779.5	3.0			G5
BL	(0°-30°)	1146.5	4.5	B3/2500		
BM	(30°-60°)	3244.3	12.7	B3/5000		
BH	(60°-80°)	1721.6	6.7	B3/2500		G3/2500
BVH	(80°-90°)	192.8	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°	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2
2.5°	2626.4	2634.3	2633.3	2629.4	2627.4	2616.6	2602.9	2585.2	2555.7	2542.0	2524.3
5°	2738.4	2744.3	2745.2	2738.4	2730.5	2713.8	2685.3	2657.9	2625.5	2605.8	2571.5
7.5°	2833.6	2838.5	2847.3	2841.5	2837.5	2823.8	2796.3	2763.9	2721.7	2694.2	2646.1
10°	2910.2	2914.1	2921.0	2930.8	2949.5	2937.7	2905.3	2882.7	2844.4	2802.2	2742.3
12.5°	2965.2	2962.2	2981.9	2999.5	3037.8	3050.6	3028.0	3011.3	2974.0	2930.8	2860.1
15°	2990.7	2989.7	3024.1	3068.3	3125.2	3145.8	3145.8	3127.2	3106.6	3073.2	2998.6
17.5°	3045.7	3049.6	3072.2	3129.1	3190.0	3238.1	3284.3	3286.2	3270.5	3247.9	3170.4
20°	3130.1	3137.0	3148.8	3193.9	3261.7	3346.1	3432.5	3463.9	3456.1	3447.3	3386.4
22.5°	3236.2	3239.1	3236.2	3275.4	3365.8	3479.7	3604.4	3656.4	3661.3	3662.3	3631.8
25°	3406.0	3393.3	3360.9	3396.2	3501.3	3632.8	3785.0	3871.4	3894.0	3914.6	3987.3
27.5°	3716.3	3686.8	3626.0	3614.2	3674.1	3818.4	4006.9	4151.2	4183.6	4240.6	4434.0
30°	4217.0	4177.7	4120.8	3947.0	3923.5	4047.2	4286.7	4492.9	4557.7	4730.5	4953.4
32.5°	4724.6	4699.1	4635.3	4468.4	4291.6	4337.8	4573.4	4895.5	5034.9	5384.4	5590.6
35°	5160.6	5147.8	5111.5	5030.0	4824.8	4695.2	4900.4	5348.1	5608.3	6154.2	6339.8
37.5°	5580.8	5574.9	5576.9	5465.9	5379.5	5193.0	5275.5	5876.3	6303.4	6960.3	7085.0
40°	5948.0	5951.0	5981.4	5930.3	5915.6	5799.8	5717.3	6439.9	7025.1	7757.6	7787.0
42.5°	6249.4	6252.4	6393.8	6317.2	6408.5	6383.0	6264.2	6966.2	7688.8	8402.6	8398.7
45°	6447.8	6452.7	6592.1	6654.0	6847.4	6931.8	6843.5	7506.2	8308.4	8999.6	8922.0
47.5°	6595.1	6591.1	6670.7	6920.0	7249.9	7416.9	7449.3	8119.9	8909.3	9552.4	9417.9
50°	6674.6	6683.4	6835.6	7168.4	7655.4	7888.1	8065.9	8844.5	9525.9	10085.5	9896.0
52.5°	6724.7	6768.8	6991.7	7387.4	8021.7	8385.9	8608.8	9647.6	10221.0	10639.3	10402.6
55°	6760.0	6840.5	7060.4	7502.3	8249.5	8789.5	9118.4	10476.3	11041.8	11266.7	10958.4
57.5°	6507.7	6585.2	6942.6	7519.9	8429.1	9121.3	9661.4	11351.1	11898.0	12040.4	11508.2
60°	6076.6	6122.8	6583.3	7381.5	8389.9	9422.8	10374.2	12388.9	12961.3	12972.1	12087.5
62.5°	5632.8	5651.5	6116.9	7020.2	8213.1	9521.9	11087.0	13772.3	14222.0	14084.6	12703.1
65°	5043.7	5064.4	5544.5	6426.2	7786.0	9412.0	11670.2	15230.4	15859.7	15492.5	13313.8
67.5°	4274.0	4319.1	4764.9	5581.8	7026.1	8986.8	12088.5	16234.8	16620.7	16304.5	13736.0
69°	3734.9	3777.2	4151.2	4997.6	6434.0	8507.7	12264.2	16499.9	16809.2	16464.6	13806.7
70°	3347.1	3379.5	3730.0	4560.7	5970.6	8098.3	12302.5	16571.6	16799.4	16470.4	13768.4
72.5°	2385.9	2413.4	2603.9	3191.0	4525.3	6783.6	12115.0	16377.2	16544.1	16069.9	13266.7
75°	1764.4	1786.0	1899.9	2108.0	2634.3	4800.2	10946.6	15569.1	15746.8	15194.0	12221.0
77.5°	1280.3	1298.0	1408.0	1611.2	1853.7	2260.2	7588.7	14051.2	14225.9	13782.2	10520.5
80°	873.8	892.5	991.7	1163.5	1354.9	1504.2	3726.1	10283.8	11247.0	11031.0	7497.4
82.5°	164.0	201.3	426.1	603.8	761.9	814.9	1408.9	5654.4	6570.5	6702.1	3909.7
85°	109.0	117.8	260.2	253.3	248.4	364.3	551.8	2710.9	3429.6	3553.3	1687.8
87.5°	54.0	56.9	77.6	107.0	136.5	164.0	181.6	714.8	1032.9	1107.5	315.2
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°	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2
2.5°	2517.4	2512.5	2497.8	2491.9	2488.0	2486.0	2462.5	2458.5	2446.8	2438.9	2432.0
5°	2554.8	2546.9	2512.5	2499.8	2480.1	2463.4	2424.2	2407.5	2395.7	2380.0	2373.1
7.5°	2620.5	2606.8	2554.8	2531.2	2496.8	2468.4	2414.4	2388.8	2366.2	2344.6	2340.7
10°	2709.9	2684.4	2612.7	2576.4	2526.3	2492.9	2430.1	2381.0	2347.6	2323.0	2322.1
12.5°	2826.7	2788.4	2702.0	2653.9	2592.1	2541.0	2469.3	2395.7	2340.7	2301.4	2299.5
15°	2966.2	2925.9	2838.5	2776.7	2704.0	2635.3	2520.4	2411.4	2320.1	2257.3	2249.4
17.5°	3137.0	3098.7	3019.2	2969.1	2867.0	2731.5	2568.5	2405.5	2274.9	2188.5	2175.8
20°	3353.0	3363.8	3289.2	3180.2	3010.3	2811.0	2592.1	2375.1	2185.6	2064.8	2047.1
22.5°	3654.4	3690.8	3566.1	3365.8	3119.3	2853.2	2582.3	2294.6	2062.9	1916.6	1901.8
25°	4023.6	4012.8	3788.0	3502.2	3175.3	2852.3	2527.3	2179.7	1906.7	1741.8	1731.0
27.5°	4409.5	4344.7	3997.1	3597.5	3185.1	2798.3	2419.3	2006.9	1727.1	1589.6	1557.2
30°	4901.4	4720.7	4211.1	3678.0	3152.7	2695.2	2223.9	1841.0	1624.0	1474.7	1453.1
32.5°	5469.9	5169.4	4451.7	3702.5	3081.0	2537.1	2011.8	1764.4	1556.2	1386.4	1361.8
35°	6130.6	5743.8	4730.5	3711.4	2944.6	2302.4	1896.9	1720.2	1511.1	1318.6	1286.2
37.5°	6821.9	6352.5	5074.2	3701.6	2785.5	2045.2	1816.4	1656.4	1460.0	1302.9	1284.3
40°	7446.3	6938.7	5462.0	3674.1	2567.5	1878.3	1729.0	1568.0	1415.8	1297.0	1282.3
42.5°	8018.7	7449.3	5833.1	3627.9	2295.6	1759.5	1632.8	1502.2	1359.9	1214.5	1185.1
45°	8514.6	7920.5	6108.1	3517.9	1991.2	1637.7	1516.9	1410.9	1276.4	1132.1	1102.6
47.5°	8939.7	8309.4	6324.1	3329.4	1745.7	1523.8	1385.4	1301.9	1184.1	1046.6	1017.2
50°	9373.7	8625.5	6450.7	3018.2	1540.5	1393.2	1254.8	1175.3	1074.1	974.0	956.3
52.5°	9839.1	9139.0	6635.3	2505.7	1351.0	1255.8	1116.4	1030.0	955.3	913.1	896.4
55°	10309.4	9594.6	6703.1	1895.0	1185.1	1147.8	985.8	873.8	820.8	794.3	790.4
57.5°	10776.7	9983.4	6471.3	1349.1	1075.1	1023.1	846.4	740.3	677.5	696.1	724.6
60°	11254.9	10267.1	5879.3	1055.5	988.7	873.8	728.5	650.0	622.5	601.9	602.9
62.5°	11696.7	10399.7	4871.9	896.4	905.3	781.5	687.3	610.7	583.2	547.9	537.1
65°	11990.3	10166.0	3802.7	829.7	829.7	758.0	685.3	611.7	574.4	512.5	501.7
67.5°	11905.8	9557.3	2814.0	769.8	781.5	767.8	702.0	609.7	563.6	504.7	500.7
69°	11633.9	8974.1	2161.0	752.1	773.7	776.6	721.7	619.5	575.4	486.0	464.4
70°	11360.9	8524.4	1788.9	737.4	771.7	782.5	737.4	631.3	566.5	456.6	442.8
72.5°	10433.1	7204.8	901.3	680.4	768.8	789.4	771.7	675.5	561.6	439.9	428.1
75°	9172.4	5541.5	578.3	632.3	744.2	797.3	799.2	716.7	563.6	430.0	415.3
77.5°	7349.1	3212.6	480.1	578.3	698.1	781.5	808.1	748.2	587.1	446.7	430.0
80°	3907.7	1270.5	385.9	493.9	639.2	734.4	783.5	737.4	581.3	373.1	362.3
82.5°	1730.0	394.7	282.8	387.8	502.7	642.1	665.7	649.0	508.6	225.8	258.2
85°	486.0	163.0	188.5	278.8	347.6	454.6	521.4	523.3	394.7	98.2	22.6
87.5°	50.1	37.3	55.0	107.0	200.3	315.2	381.0	365.2	264.1	83.5	2.0
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)