

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: P285791

Luminaire Tested: **USSL-XL-C049-D-U-T3-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285791
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-C049-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: 31061 lumens
Efficiency: N/A
Efficacy: 143.1 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): 217
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

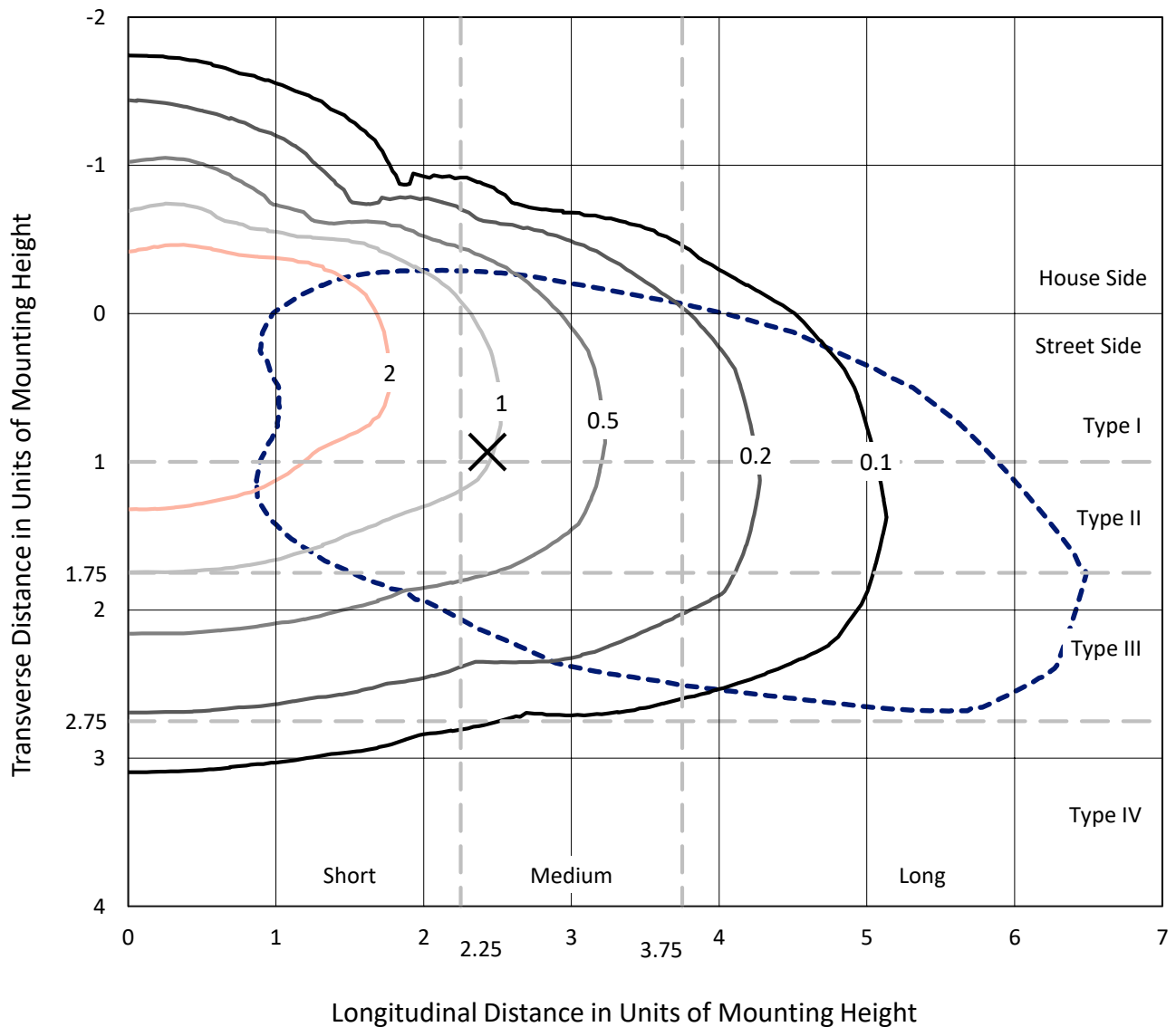


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

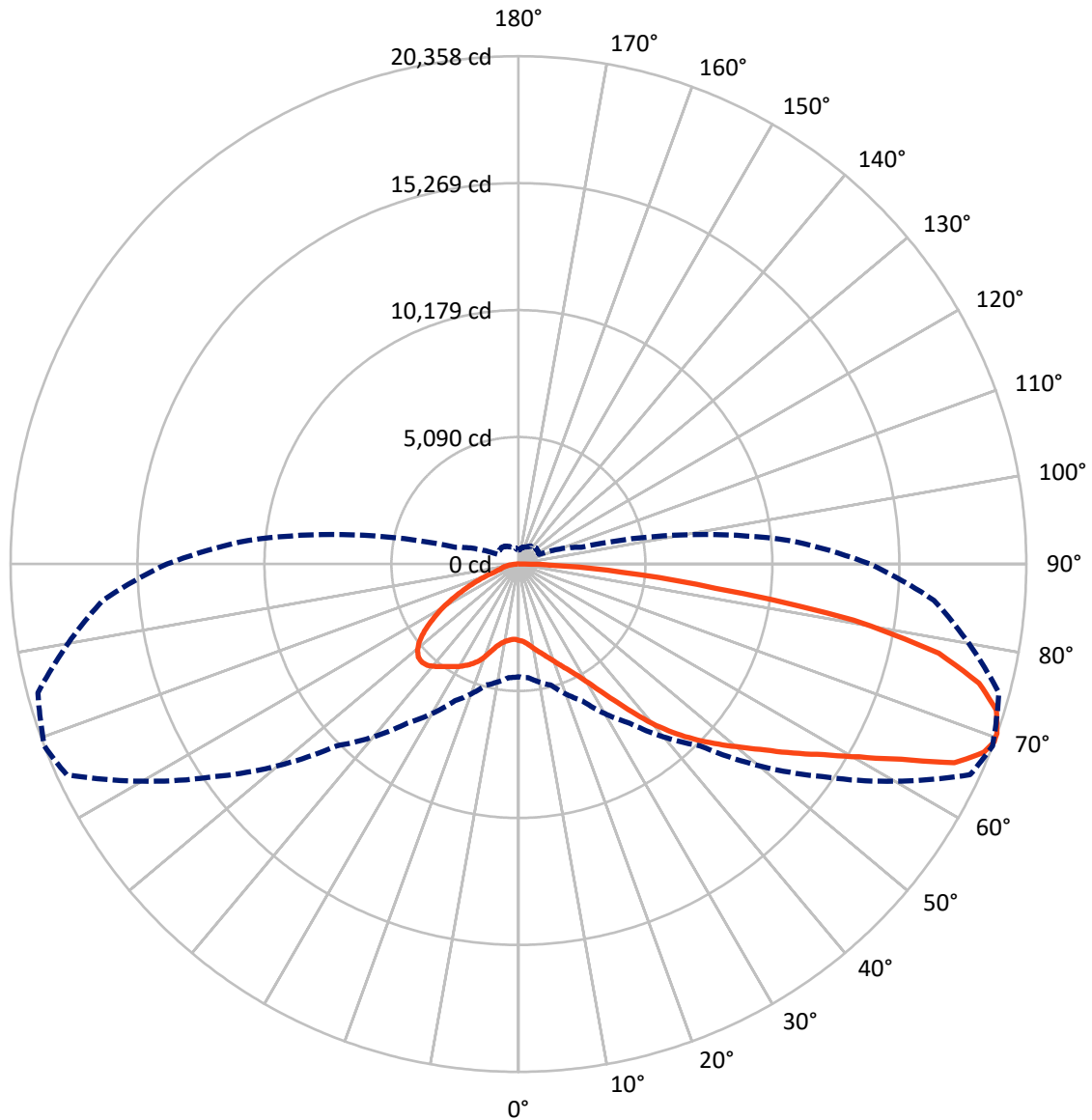


Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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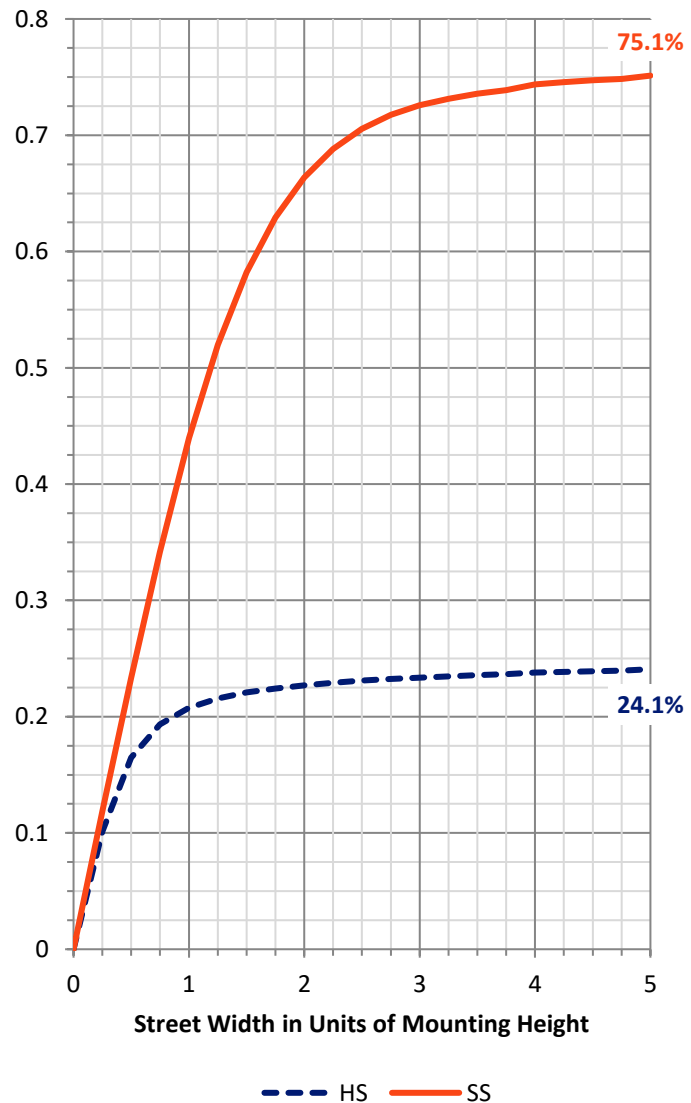
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7636.4	0.0	7636.4
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	23424.6	0.0	23424.6
	% Fixture	75.4	0.0	75.4
Total	Lumens	31061.0	0.0	31061.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.9	1.0
10°-20°	983.8	3.2
20°-30°	1842.5	5.9
30°-40°	3130.7	10.1
40°-50°	4804.2	15.5
50°-60°	6276.9	20.2
60°-70°	7147.4	23.0
70°-80°	5396.1	17.4
80°-90°	1177.6	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°	31061.0	100.0
0°-180°	31061.0	100.0



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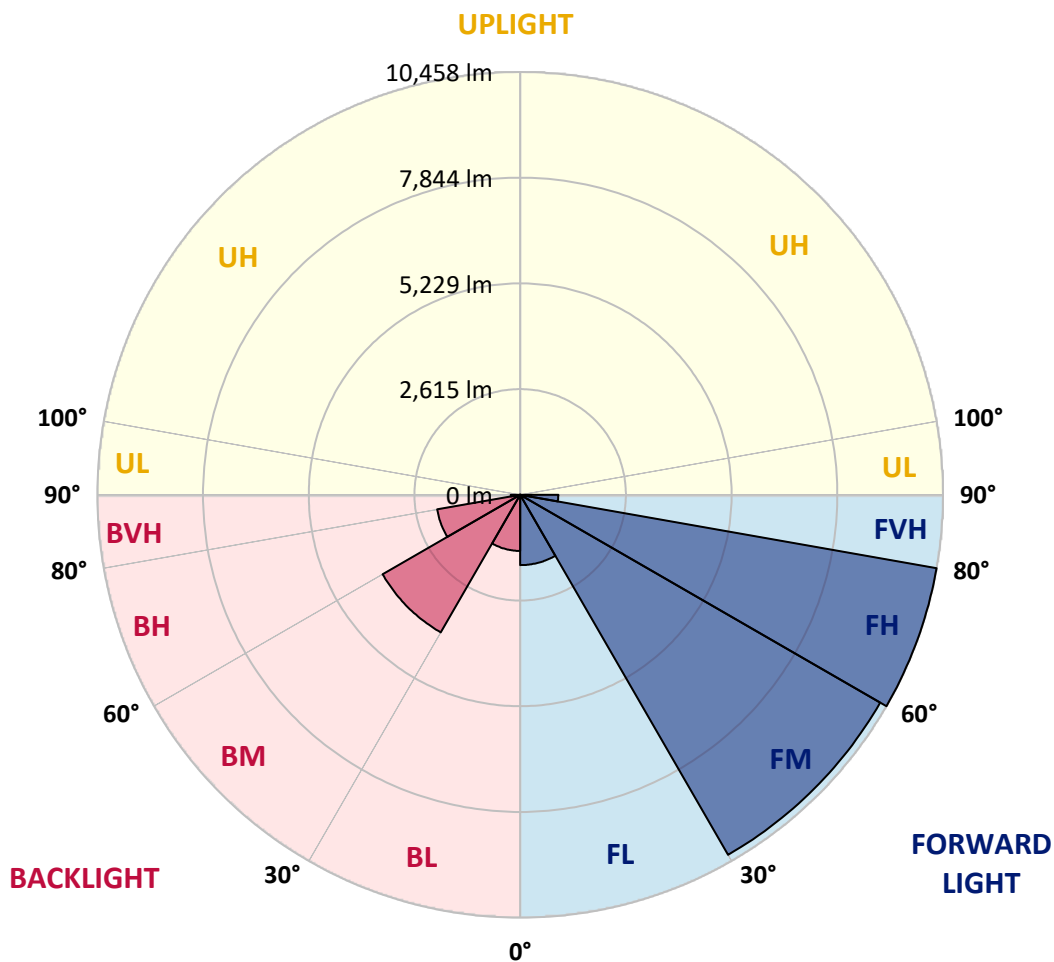
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1739.7	5.6			
FM	(30°-60°)	10282.4	33.1			
FH	(60°-80°)	10458.4	33.7			G4/12000
FVH	(80°-90°)	944.1	3.0			G5
BL	(0°-30°)	1388.5	4.5	B3/2500		
BM	(30°-60°)	3929.3	12.7	B3/5000		
BH	(60°-80°)	2085.1	6.7	B3/2500		G3/2500
BVH	(80°-90°)	233.5	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°	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5
2.5°	3181.0	3190.5	3189.3	3184.6	3182.2	3169.1	3152.5	3131.0	3095.4	3078.7	3057.3
5°	3316.6	3323.7	3324.9	3316.6	3307.0	3286.8	3252.3	3219.0	3179.8	3156.0	3114.4
7.5°	3431.9	3437.8	3448.6	3441.4	3436.7	3420.0	3386.7	3347.5	3296.3	3263.0	3204.8
10°	3524.7	3529.4	3537.7	3549.6	3572.2	3558.0	3518.7	3491.4	3445.0	3393.8	3321.3
12.5°	3591.2	3587.7	3611.5	3632.9	3679.2	3694.7	3667.4	3647.1	3602.0	3549.6	3464.0
15°	3622.2	3621.0	3662.6	3716.1	3785.1	3810.1	3810.1	3787.5	3762.5	3722.1	3631.7
17.5°	3688.8	3693.5	3720.9	3789.8	3863.6	3921.8	3977.7	3980.1	3961.1	3933.7	3839.8
20°	3791.0	3799.4	3813.6	3868.3	3950.4	4052.6	4157.3	4195.3	4185.8	4175.1	4101.4
22.5°	3919.5	3923.0	3919.5	3967.0	4076.4	4214.4	4365.4	4428.4	4434.4	4435.5	4398.7
25°	4125.2	4109.7	4070.5	4113.3	4240.5	4399.9	4584.2	4688.8	4716.2	4741.2	4829.2
27.5°	4501.0	4465.3	4391.6	4377.3	4449.8	4624.6	4852.9	5027.7	5067.0	5136.0	5370.2
30°	5107.4	5059.9	4990.9	4780.4	4751.9	4901.7	5191.9	5441.6	5520.1	5729.3	5999.3
32.5°	5722.2	5691.3	5614.0	5411.8	5197.8	5253.7	5539.1	5929.1	6098.0	6521.3	6771.0
35°	6250.2	6234.7	6190.7	6092.0	5843.5	5686.5	5935.1	6477.3	6792.5	7453.6	7678.4
37.5°	6759.2	6752.0	6754.4	6620.0	6515.4	6289.4	6389.3	7117.1	7634.4	8429.9	8580.9
40°	7203.9	7207.5	7244.3	7182.5	7164.7	7024.3	6924.5	7799.7	8508.4	9395.5	9431.2
42.5°	7569.0	7572.5	7743.8	7651.0	7761.6	7730.7	7586.8	8437.1	9312.3	10176.8	10172.0
45°	7809.2	7815.1	7984.0	8058.9	8293.2	8395.4	8288.4	9091.1	10062.6	10899.8	10805.9
47.5°	7987.6	7982.8	8079.1	8381.2	8780.7	8982.9	9022.1	9834.3	10790.4	11569.3	11406.4
50°	8083.9	8094.6	8278.9	8682.0	9271.8	9553.7	9768.9	10711.9	11537.2	12215.0	11985.5
52.5°	8144.5	8198.0	8468.0	8947.2	9715.4	10156.6	10426.5	11684.6	12379.1	12885.7	12599.1
55°	8187.3	8284.8	8551.2	9086.3	9991.3	10645.3	11043.7	12688.3	13373.2	13645.6	13272.2
57.5°	7881.7	7975.7	8408.5	9107.7	10208.9	11047.3	11701.3	13747.8	14410.2	14582.6	13938.1
60°	7359.7	7415.6	7973.3	8940.1	10161.3	11412.3	12564.6	15004.8	15698.0	15711.1	14639.7
62.5°	6822.2	6844.8	7408.4	8502.5	9947.3	11532.4	13427.9	16680.3	17224.9	17058.4	15385.3
65°	6108.7	6133.7	6715.2	7783.0	9430.0	11399.2	14134.3	18446.2	19208.4	18763.7	16124.9
67.5°	5176.4	5231.1	5771.0	6760.3	8509.6	10884.3	14640.9	19662.7	20130.0	19747.1	16636.3
69°	4523.5	4574.7	5027.7	6052.8	7792.5	10304.0	14853.7	19983.8	20358.3	19940.9	16721.9
70°	4053.8	4093.1	4517.6	5523.6	7231.3	9808.2	14900.1	20070.6	20346.4	19948.1	16675.5
72.5°	2889.6	2922.9	3153.6	3864.8	5480.8	8215.9	14673.0	19835.1	20037.3	19462.9	16067.9
75°	2136.9	2163.1	2301.0	2553.1	3190.5	5813.8	13257.9	18856.4	19071.7	18402.2	14801.4
77.5°	1550.7	1572.1	1705.2	1951.4	2245.1	2737.4	9191.0	17018.0	17229.7	16692.2	12741.8
80°	1058.3	1080.9	1201.0	1409.1	1641.0	1821.8	4512.8	12455.2	13621.8	13360.2	9080.4
82.5°	198.6	243.8	516.1	731.3	922.8	987.0	1706.4	6848.3	7957.8	8117.2	4735.2
85°	132.0	142.7	315.1	306.8	300.9	441.2	668.3	3283.3	4153.7	4303.6	2044.2
87.5°	65.4	69.0	93.9	129.6	165.3	198.6	220.0	865.7	1251.0	1341.4	381.7
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°	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5
2.5°	3049.0	3043.0	3025.2	3018.1	3013.3	3010.9	2982.4	2977.6	2963.4	2953.9	2945.5
5°	3094.2	3084.7	3043.0	3027.6	3003.8	2983.6	2936.0	2915.8	2901.5	2882.5	2874.2
7.5°	3173.9	3157.2	3094.2	3065.6	3024.0	2989.5	2924.1	2893.2	2865.9	2839.7	2834.9
10°	3282.1	3251.2	3164.3	3120.3	3059.7	3019.3	2943.2	2883.7	2843.3	2813.5	2812.4
12.5°	3423.6	3377.2	3272.6	3214.3	3139.4	3077.5	2990.7	2901.5	2834.9	2787.4	2785.0
15°	3592.4	3543.7	3437.8	3362.9	3274.9	3191.7	3052.6	2920.6	2810.0	2733.9	2724.4
17.5°	3799.4	3753.0	3656.7	3596.0	3472.3	3308.2	3110.8	2913.4	2755.3	2650.6	2635.2
20°	4061.0	4074.0	3983.7	3851.7	3645.9	3404.6	3139.4	2876.6	2647.1	2500.8	2479.4
22.5°	4426.0	4470.0	4319.0	4076.4	3777.9	3455.7	3127.5	2779.1	2498.4	2321.2	2303.4
25°	4873.2	4860.1	4587.8	4241.7	3845.7	3454.5	3060.9	2639.9	2309.3	2109.6	2096.5
27.5°	5340.5	5262.0	4841.1	4357.1	3857.6	3389.1	2930.1	2430.6	2091.7	1925.2	1886.0
30°	5936.3	5717.5	5100.3	4454.6	3818.4	3264.2	2693.4	2229.7	1966.9	1786.1	1759.9
32.5°	6624.8	6260.9	5391.6	4484.3	3731.6	3072.8	2436.6	2136.9	1884.8	1679.1	1649.4
35°	7425.1	6956.6	5729.3	4495.0	3566.3	2788.6	2297.4	2083.4	1830.1	1597.0	1557.8
37.5°	8262.3	7693.8	6145.6	4483.1	3373.6	2477.0	2199.9	2006.1	1768.3	1578.0	1555.4
40°	9018.6	8403.8	6615.3	4449.8	3109.6	2274.9	2094.1	1899.1	1714.8	1570.9	1553.0
42.5°	9711.8	9022.1	7064.8	4393.9	2780.2	2131.0	1977.6	1819.4	1647.0	1471.0	1435.3
45°	10312.4	9592.9	7397.7	4260.7	2411.6	1983.5	1837.2	1708.8	1545.9	1371.1	1335.4
47.5°	10827.3	10063.8	7659.3	4032.4	2114.3	1845.6	1677.9	1576.8	1434.1	1267.6	1232.0
50°	11352.9	10446.7	7812.7	3655.5	1865.8	1687.4	1519.7	1423.4	1300.9	1179.6	1158.2
52.5°	11916.5	11068.7	8036.3	3034.7	1636.3	1520.9	1352.1	1247.4	1157.0	1105.9	1085.7
55°	12486.1	11620.4	8118.4	2295.1	1435.3	1390.1	1193.9	1058.3	994.1	962.0	957.3
57.5°	13052.2	12091.3	7837.7	1633.9	1302.1	1239.1	1025.1	896.6	820.5	843.1	877.6
60°	13631.3	12435.0	7120.7	1278.3	1197.5	1058.3	882.4	787.2	753.9	729.0	730.1
62.5°	14166.4	12595.5	5900.6	1085.7	1096.4	946.6	832.4	739.7	706.4	663.5	650.5
65°	14522.0	12312.5	4605.6	1004.8	1004.8	918.0	830.0	740.8	695.7	620.7	607.7
67.5°	14419.7	11575.2	3408.1	932.3	946.6	929.9	850.2	738.5	682.6	611.2	606.5
69°	14090.3	10868.9	2617.3	910.9	937.1	940.6	874.0	750.4	696.8	588.6	562.5
70°	13759.7	10324.2	2166.6	893.1	934.7	947.8	893.1	764.6	686.1	553.0	536.3
72.5°	12636.0	8726.0	1091.6	824.1	931.1	956.1	934.7	818.1	680.2	532.7	518.5
75°	11109.1	6711.6	700.4	765.8	901.4	965.6	968.0	868.1	682.6	520.8	503.0
77.5°	8900.8	3890.9	581.5	700.4	845.5	946.6	978.7	906.1	711.1	541.1	520.8
80°	4732.8	1538.8	467.3	598.1	774.1	889.5	948.9	893.1	704.0	451.9	438.8
82.5°	2095.3	478.0	342.5	469.7	608.8	777.7	806.2	786.0	616.0	273.5	312.7
85°	588.6	197.4	228.3	337.7	421.0	550.6	631.4	633.8	478.0	118.9	27.4
87.5°	60.6	45.2	66.6	129.6	242.6	381.7	461.4	442.4	319.9	101.1	2.4
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)