

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: P285746

Luminaire Tested: **USSL-XL-C049-D-U-T2-AP-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285746
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-C049-D-U-T2-AP-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 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: 32500.8 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

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

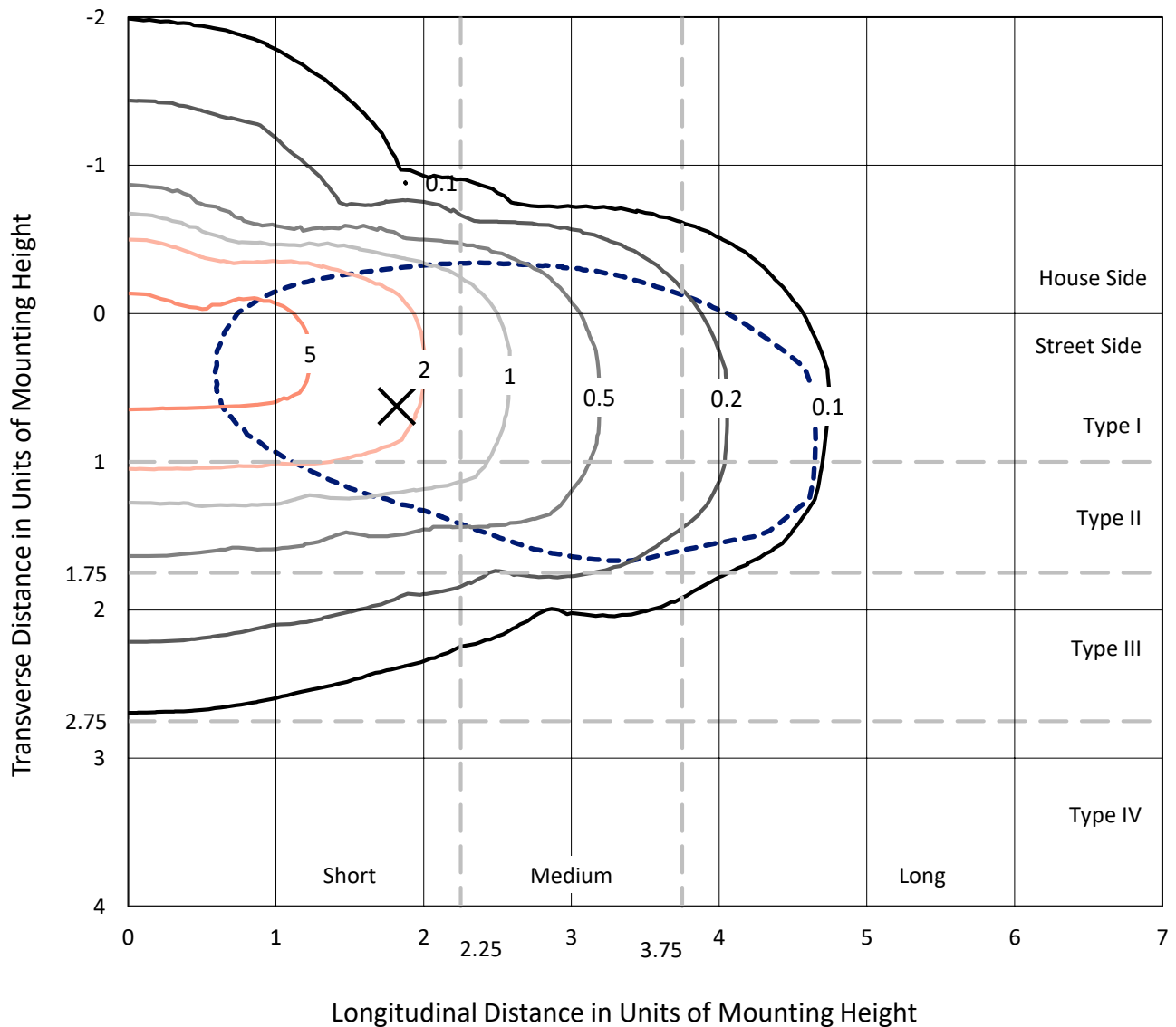


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

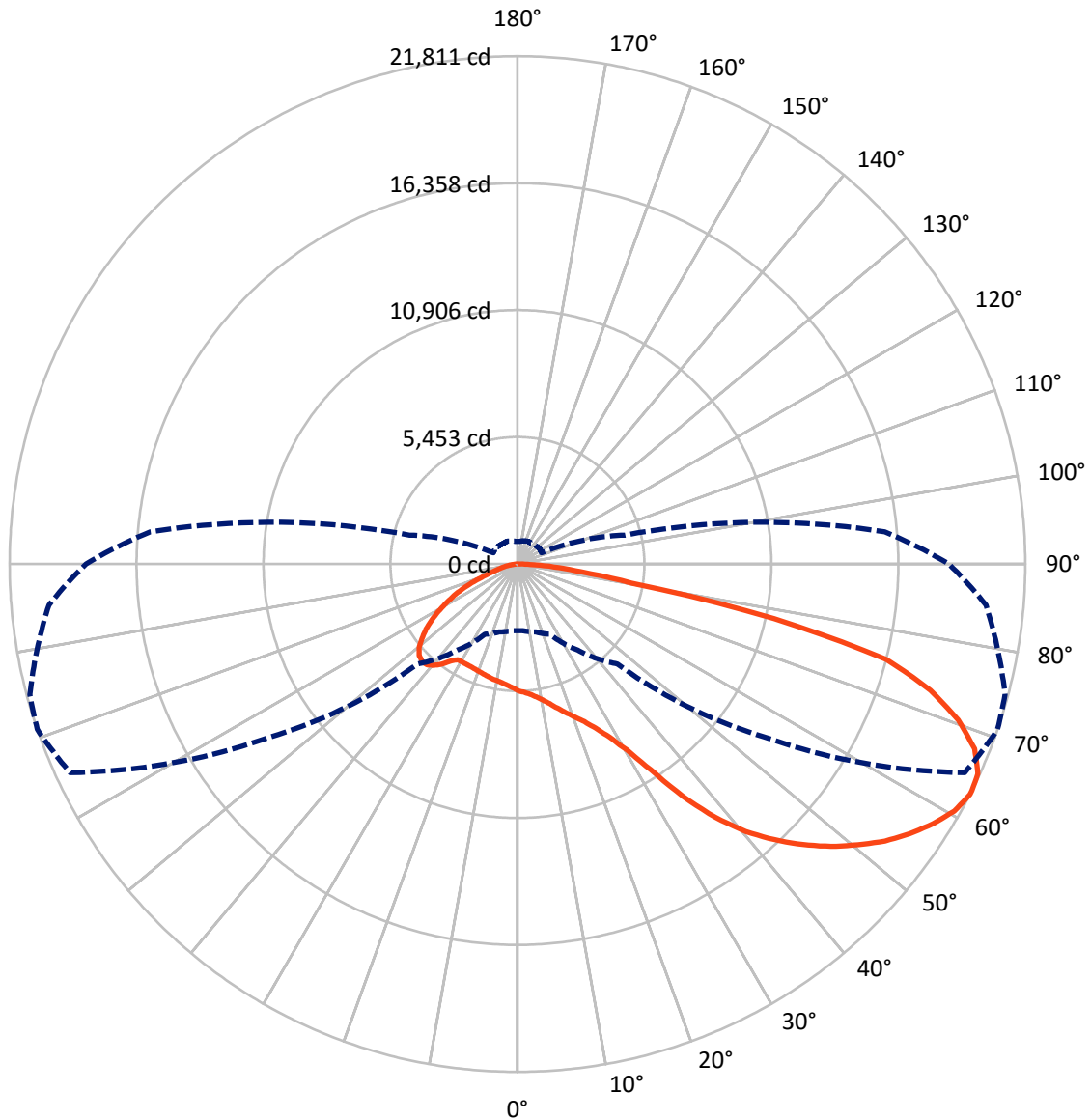


Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - Non-Cutoff

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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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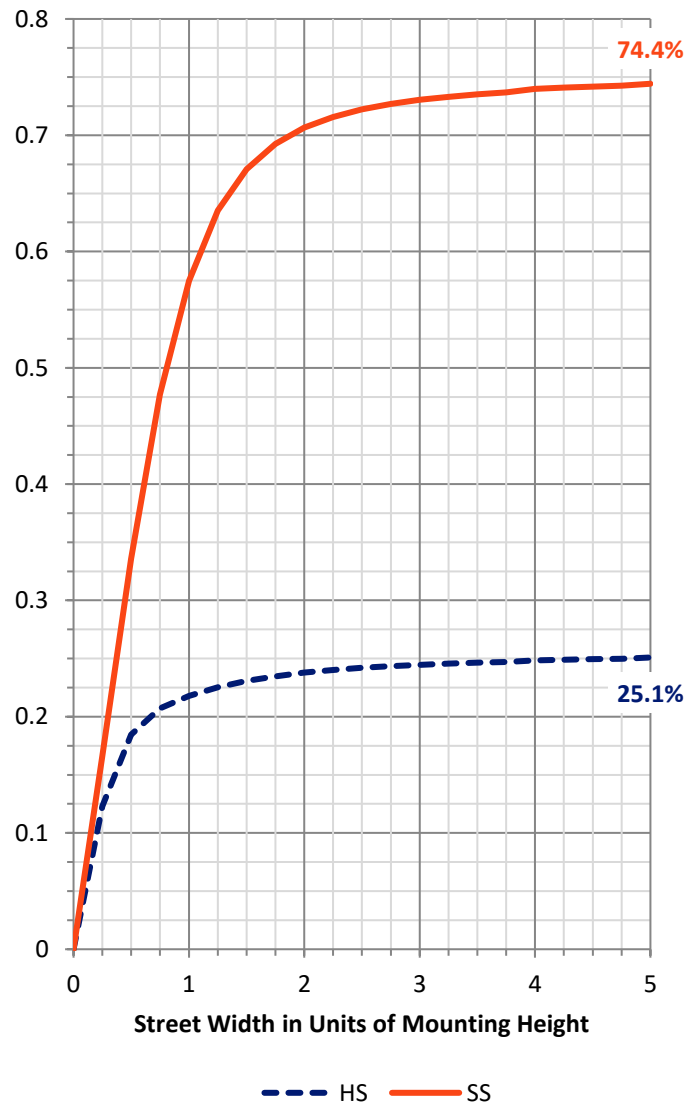
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8299.7	0.0	8299.7
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	24201.0	0.0	24201.0
	% Fixture	74.5	0.0	74.5
Total	Lumens	32500.8	0.0	32500.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.0	1.6
10°-20°	1606.7	4.9
20°-30°	2723.6	8.4
30°-40°	4105.1	12.6
40°-50°	5639.5	17.4
50°-60°	6556.5	20.2
60°-70°	6469.4	19.9
70°-80°	4136.7	12.7
80°-90°	738.4	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°	32500.8	100.0
0°-180°	32500.8	100.0



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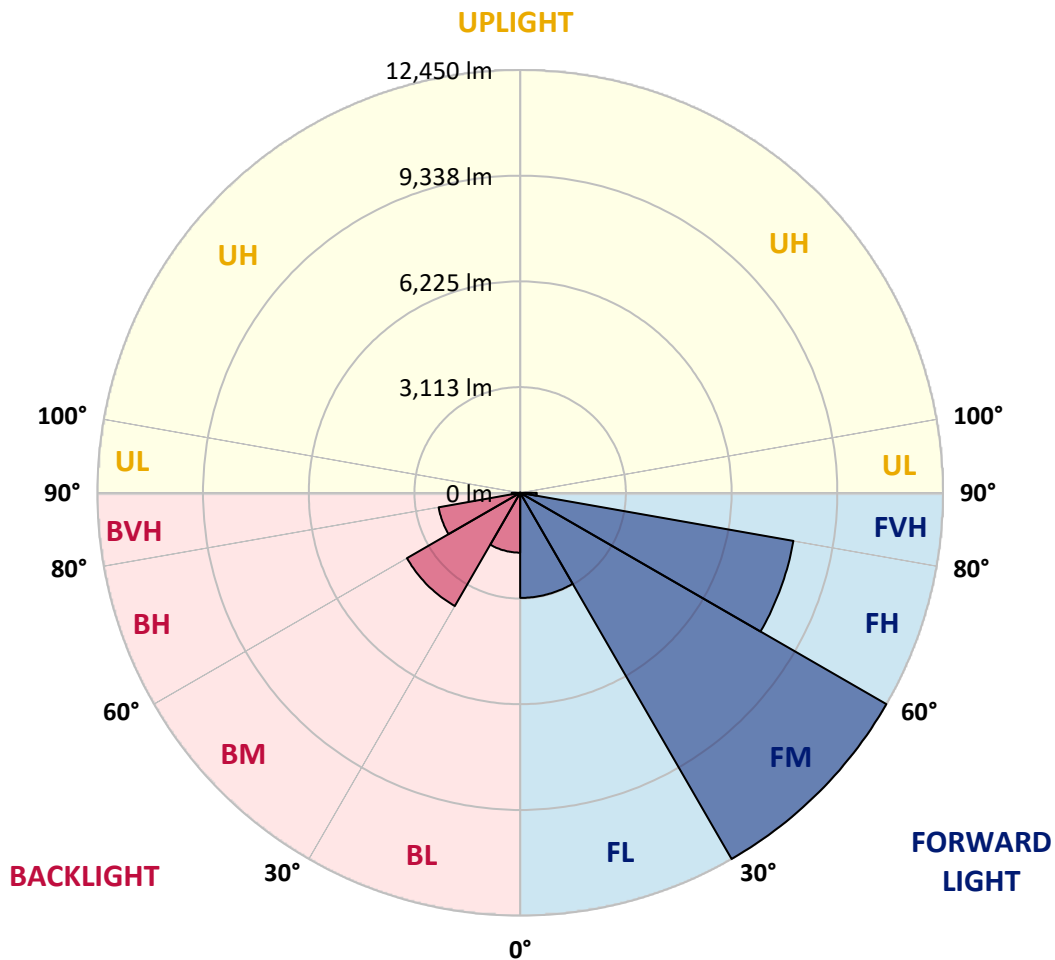
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3093.3	9.5			
FM	(30°-60°)	12450.4	38.3			
FH	(60°-80°)	8169.3	25.1			G4/12000
FVH	(80°-90°)	488.0	1.5			G3/500
BL	(0°-30°)	1761.9	5.4	B3/2500		
BM	(30°-60°)	3850.6	11.8	B3/5000		
BH	(60°-80°)	2436.8	7.5	B3/2500		G3/2500
BVH	(80°-90°)	250.5	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7
2.5°	5808.9	5797.8	5784.2	5760.7	5733.4	5701.2	5667.8	5592.4	5514.3	5489.6	5436.4
5°	6128.1	6107.1	6089.8	6067.5	6015.6	5950.0	5862.1	5738.4	5617.0	5578.7	5468.6
7.5°	6410.4	6386.9	6355.9	6326.2	6269.2	6185.2	6066.3	5909.2	5763.1	5696.3	5516.9
10°	6661.6	6639.3	6623.2	6589.7	6543.9	6442.5	6301.4	6104.7	5935.1	5842.3	5593.5
12.5°	6940.0	6921.5	6888.0	6849.6	6789.0	6691.3	6550.2	6336.1	6155.4	6042.8	5711.2
15°	7223.3	7211.0	7151.6	7129.3	7061.3	6948.6	6823.6	6603.4	6419.0	6279.2	5879.5
17.5°	7474.6	7465.9	7428.8	7402.8	7347.1	7220.9	7092.2	6890.5	6702.4	6524.2	6066.3
20°	7635.5	7647.8	7640.4	7635.5	7631.7	7527.8	7400.3	7192.5	7003.1	6826.2	6266.8
22.5°	7785.2	7790.2	7810.0	7855.8	7921.4	7875.6	7738.2	7546.4	7353.3	7141.7	6526.7
25°	7832.2	7835.9	7912.7	8051.3	8235.6	8255.5	8142.9	8014.1	7803.7	7595.9	6883.1
27.5°	7870.6	7880.5	7977.0	8219.5	8543.9	8637.9	8597.1	8555.0	8406.5	8188.7	7362.0
30°	7859.5	7861.9	8021.5	8333.5	8788.8	9042.5	9104.4	9307.3	9270.2	9121.7	8163.9
32.5°	7655.2	7636.7	7868.2	8335.9	8980.6	9448.5	9734.3	10312.2	10531.3	10570.8	9767.7
35°	7239.4	7239.4	7585.9	8239.3	9119.3	9849.3	10452.1	11534.9	12273.6	12293.5	11292.3
37.5°	6893.0	6915.2	7303.8	8058.7	9183.6	10256.5	11275.0	13029.8	13809.4	13742.6	12565.8
40°	6547.7	6574.9	6973.4	7812.4	9145.2	10608.0	12073.2	14455.4	15103.9	14950.4	13651.0
42.5°	6165.3	6186.3	6560.0	7462.2	9012.9	10864.2	12930.8	15671.9	16188.0	16001.1	14641.0
45°	5782.9	5818.7	6155.4	6991.9	8754.1	11017.6	13665.9	16775.8	17194.0	16978.8	15541.9
47.5°	5219.8	5358.4	5750.7	6527.9	8285.1	11006.4	14318.1	17767.0	18122.2	17893.2	16353.7
50°	4075.1	4156.8	5021.8	6107.1	7666.4	10784.9	14832.9	18651.8	18956.2	18753.3	17174.2
52.5°	3701.4	3723.6	4003.3	5591.1	6980.8	10346.8	15214.0	19469.8	19766.8	19534.2	17916.8
55°	3509.5	3521.9	3659.3	4571.3	6399.1	9540.1	15387.3	20226.0	20449.9	20187.6	18545.4
57.5°	3248.5	3286.9	3478.7	3896.9	5803.9	8399.0	15163.2	20819.9	21044.0	20759.3	19146.9
60°	3055.4	3078.9	3243.5	3567.7	5114.7	7065.0	14388.6	21249.4	21551.4	21288.9	19704.9
62.5°	2864.8	2878.5	3017.1	3328.9	4521.9	6072.5	12941.9	21199.9	21811.2	21680.0	20200.0
63°	2825.3	2837.7	2976.2	3285.6	4434.0	5869.5	12637.5	21138.0	21811.2	21719.6	20261.8
65°	2649.5	2664.4	2801.7	3083.9	4066.5	5359.7	11278.7	20753.2	21733.2	21776.6	20349.7
67.5°	2388.4	2413.2	2527.0	2773.2	3514.5	4738.5	9262.8	20350.9	21173.8	21266.7	19863.4
70°	2080.3	2085.2	2222.6	2429.3	2962.6	4030.6	7140.4	19130.8	20081.2	20122.0	18726.1
72.5°	1752.3	1765.9	1889.7	2064.2	2457.7	3337.6	5104.8	16867.4	18554.1	18784.3	16821.6
75°	1529.5	1540.7	1644.6	1767.2	2040.6	2631.0	3414.3	12299.7	16357.4	16613.6	14550.7
77.5°	1280.8	1288.2	1397.2	1481.3	1658.3	1985.0	2357.4	6489.6	11266.3	12630.1	11367.9
80°	912.0	913.3	1022.2	1087.8	1201.6	1220.2	1498.6	3453.9	4957.5	6406.6	7513.0
82.5°	198.0	284.6	428.2	538.3	602.7	507.4	737.6	1892.1	2738.6	3269.5	4072.7
85°	85.4	117.5	226.5	248.8	165.9	183.2	299.5	1008.6	1565.5	1863.7	2096.4
87.5°	16.1	21.0	58.2	78.0	48.2	50.8	60.6	323.0	548.2	643.5	717.8
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°	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7
2.5°	5404.2	5389.4	5339.9	5306.5	5285.4	5258.2	5223.5	5177.7	5164.2	5131.9	5158.0
5°	5407.9	5368.4	5264.4	5189.0	5120.8	5061.4	4992.1	4926.5	4901.8	4858.5	4875.9
7.5°	5425.3	5358.4	5197.5	5082.4	4981.0	4900.6	4804.0	4723.6	4695.1	4645.6	4654.3
10°	5471.1	5367.1	5145.6	5005.8	4865.9	4748.4	4635.7	4525.6	4476.1	4432.8	4453.8
12.5°	5551.5	5399.2	5122.1	4942.6	4757.0	4613.4	4448.8	4307.8	4238.5	4182.8	4201.3
15°	5672.8	5461.1	5094.8	4852.3	4628.3	4441.4	4239.7	4061.5	3983.5	3940.3	3961.3
17.5°	5796.5	5551.5	5078.7	4742.2	4473.6	4231.0	4036.7	3868.4	3726.2	3694.0	3706.4
20°	5942.5	5644.3	5091.1	4625.8	4291.7	4004.6	3774.4	3661.8	3477.4	3413.1	3416.8
22.5°	6135.5	5789.1	5102.3	4512.0	4075.1	3754.6	3486.1	3374.7	3197.7	3083.9	3088.9
25°	6412.8	5968.5	5128.2	4406.7	3862.3	3479.9	3169.3	2983.6	2873.5	2728.7	2730.0
27.5°	6792.7	6214.8	5180.3	4307.8	3635.8	3164.3	2784.4	2576.5	2480.0	2384.7	2372.3
30°	7441.1	6621.9	5257.0	4198.9	3367.3	2783.2	2378.5	2196.5	2114.9	2036.9	2028.3
32.5°	8809.9	7610.7	5363.4	4061.5	3077.7	2350.0	2019.6	1876.0	1761.0	1684.3	1695.4
35°	10214.5	8849.4	5813.9	3898.2	2751.0	1971.4	1749.9	1571.6	1424.4	1364.9	1368.6
37.5°	11417.3	9971.9	6490.7	3721.2	2389.7	1727.5	1478.9	1306.9	1189.2	1159.5	1196.6
40°	12418.4	10893.9	7034.0	3534.3	2009.7	1522.1	1205.3	1111.3	1035.8	1027.1	1060.5
42.5°	13365.1	11726.7	7490.6	3319.0	1655.8	1257.4	1001.2	1023.4	1012.3	1011.0	1016.0
45°	14225.2	12498.9	7745.6	2998.5	1405.9	1029.6	945.4	1029.6	1048.1	1045.7	1032.1
47.5°	15008.6	13204.2	7918.8	2534.4	1190.5	965.3	976.4	1033.3	1068.0	1074.2	1059.3
50°	15821.7	13893.6	7946.1	1972.6	1105.1	1016.0	1003.6	996.2	1059.3	1058.1	1059.3
52.5°	16548.0	14485.1	7649.1	1533.3	1149.7	1069.2	1025.9	982.6	1018.5	1019.7	994.9
55°	17095.0	14970.2	7140.4	1344.0	1186.8	1113.7	1090.2	1003.6	981.4	966.5	975.2
57.5°	17659.3	15403.3	6449.9	1258.5	1197.9	1123.7	1147.1	1008.6	975.2	907.1	902.2
60°	18202.6	15753.6	5631.9	1201.6	1184.3	1118.7	1111.3	1047.0	982.6	881.1	846.4
62.5°	18533.0	15830.2	4795.4	1146.0	1158.4	1111.3	1071.7	1075.4	1030.9	975.2	967.7
63°	18571.4	15804.3	4635.7	1132.3	1152.1	1110.0	1071.7	1077.9	1030.9	997.5	998.6
65°	18523.1	15502.3	4009.6	1074.2	1129.9	1090.2	1055.6	1024.7	948.0	969.0	993.8
67.5°	17981.1	14514.8	3082.6	980.1	1080.4	1058.1	1007.3	930.6	861.3	847.7	862.5
70°	16517.2	12897.4	2184.2	835.3	991.2	1017.2	994.9	879.8	810.6	798.2	827.9
72.5°	14485.1	11198.3	1499.9	668.3	830.3	946.7	940.6	847.7	785.8	750.0	764.8
75°	12193.2	9032.6	1048.1	563.0	639.8	852.7	892.2	820.5	773.4	740.0	735.0
77.5°	9387.7	6822.5	824.2	481.4	528.5	690.5	820.5	814.3	872.4	1029.6	994.9
80°	6395.4	4536.7	594.0	361.3	420.8	483.8	706.6	840.3	1103.9	648.4	636.0
82.5°	3717.5	2665.6	371.3	240.1	251.2	329.2	443.0	887.3	738.8	292.0	368.7
85°	1795.7	1160.8	185.6	165.9	115.1	123.8	205.4	826.6	523.5	129.9	26.0
87.5°	573.0	282.1	19.8	14.8	17.3	24.8	97.7	504.9	308.1	111.4	16.1
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)