

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: P285756

Luminaire Tested: **USSL-XL-C049-D-U-T2-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285756
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-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE II OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33702.7 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B4 - 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

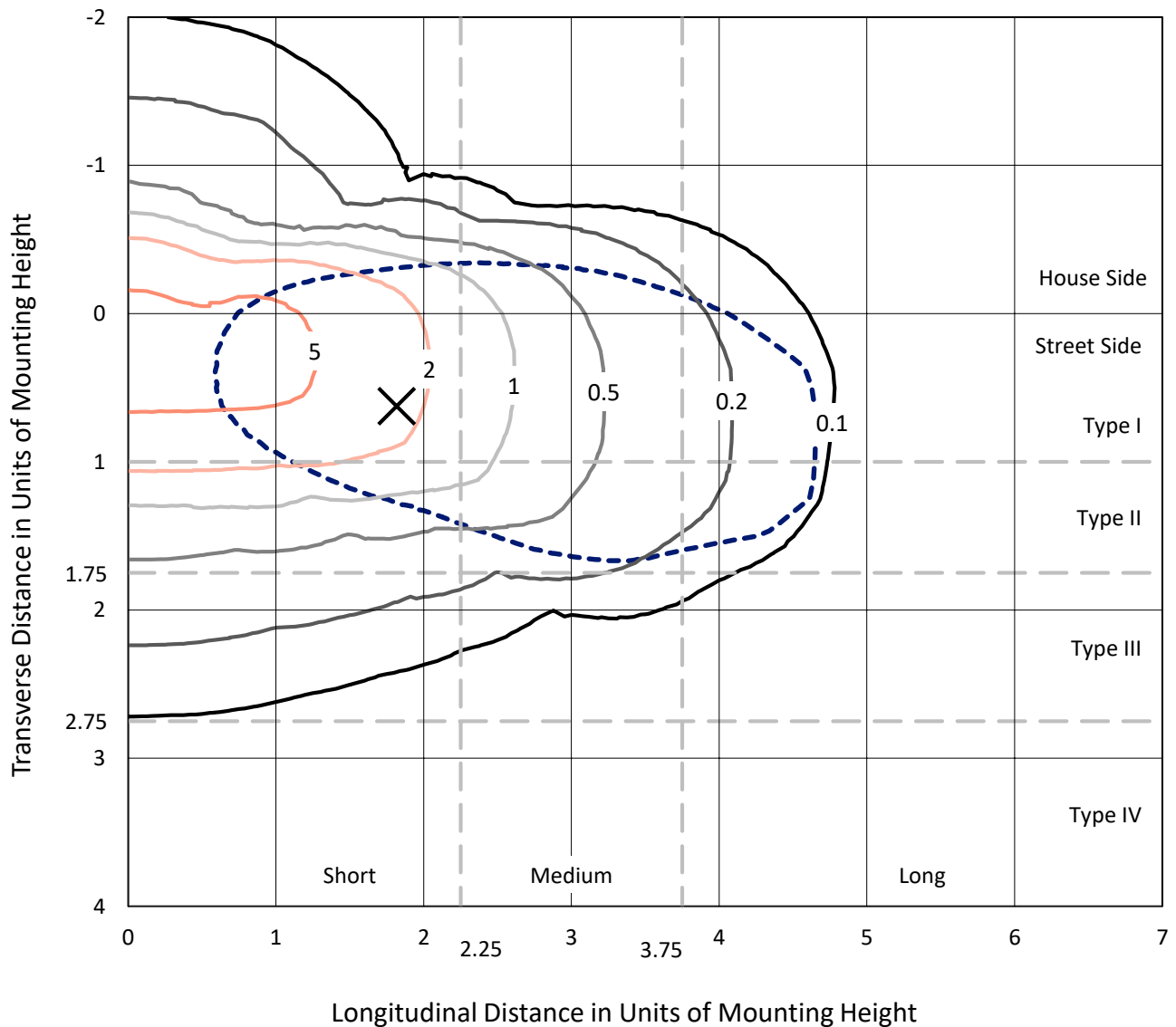


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

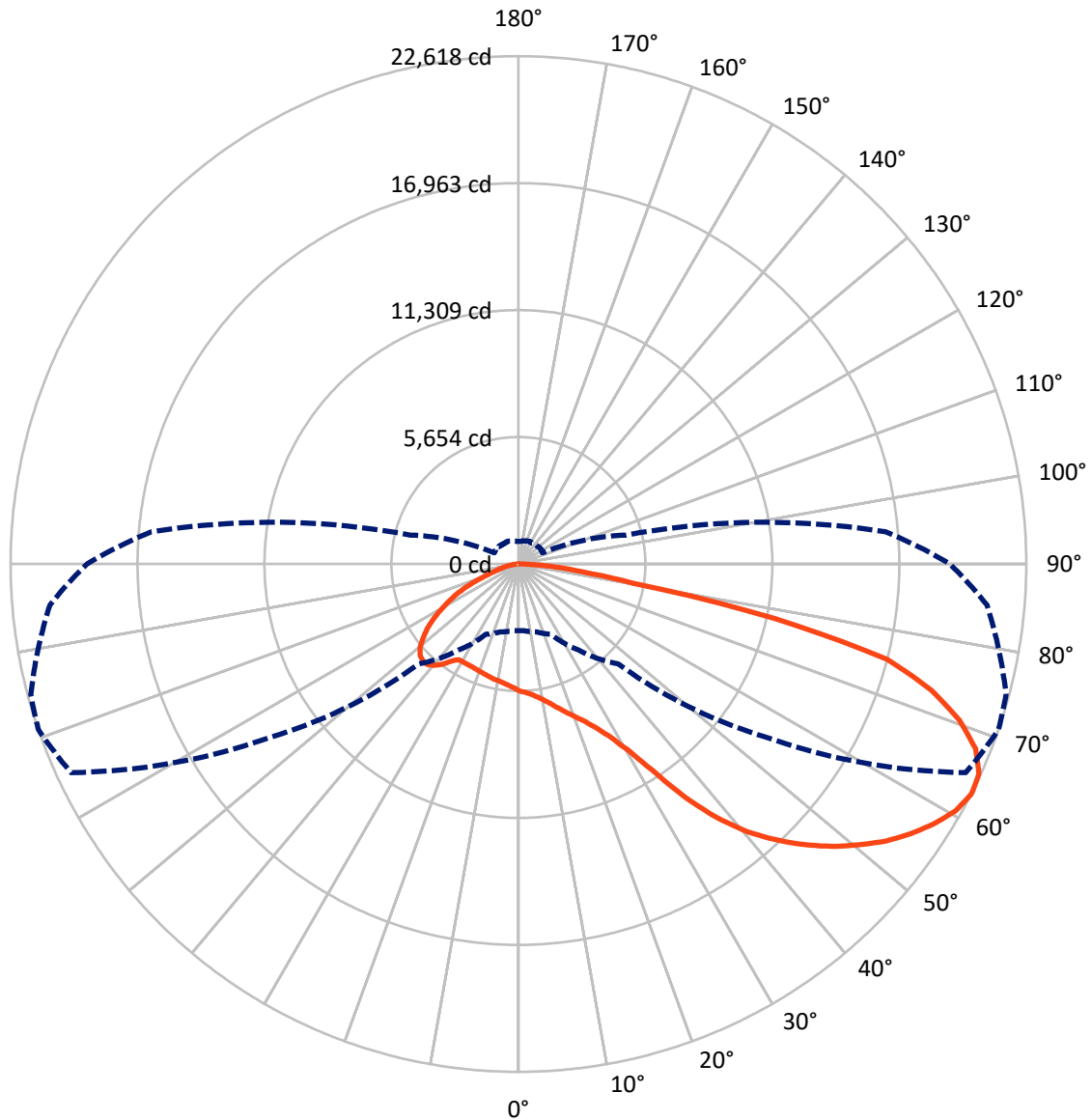


Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Non-Cutoff

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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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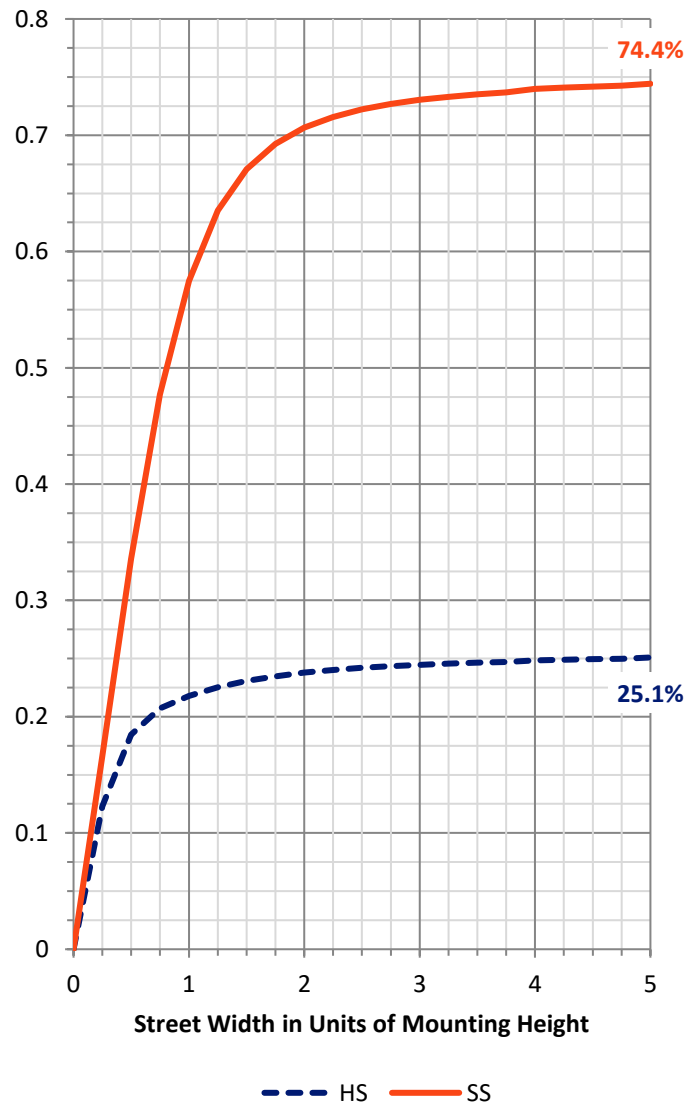
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8606.7	0.0	8606.7
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	25096.0	0.0	25096.0
	% Fixture	74.5	0.0	74.5
Total	Lumens	33702.7	0.0	33702.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.4	1.6
10°-20°	1666.1	4.9
20°-30°	2824.3	8.4
30°-40°	4256.9	12.6
40°-50°	5848.0	17.4
50°-60°	6799.0	20.2
60°-70°	6708.7	19.9
70°-80°	4289.6	12.7
80°-90°	765.7	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°	33702.7	100.0
0°-180°	33702.7	100.0



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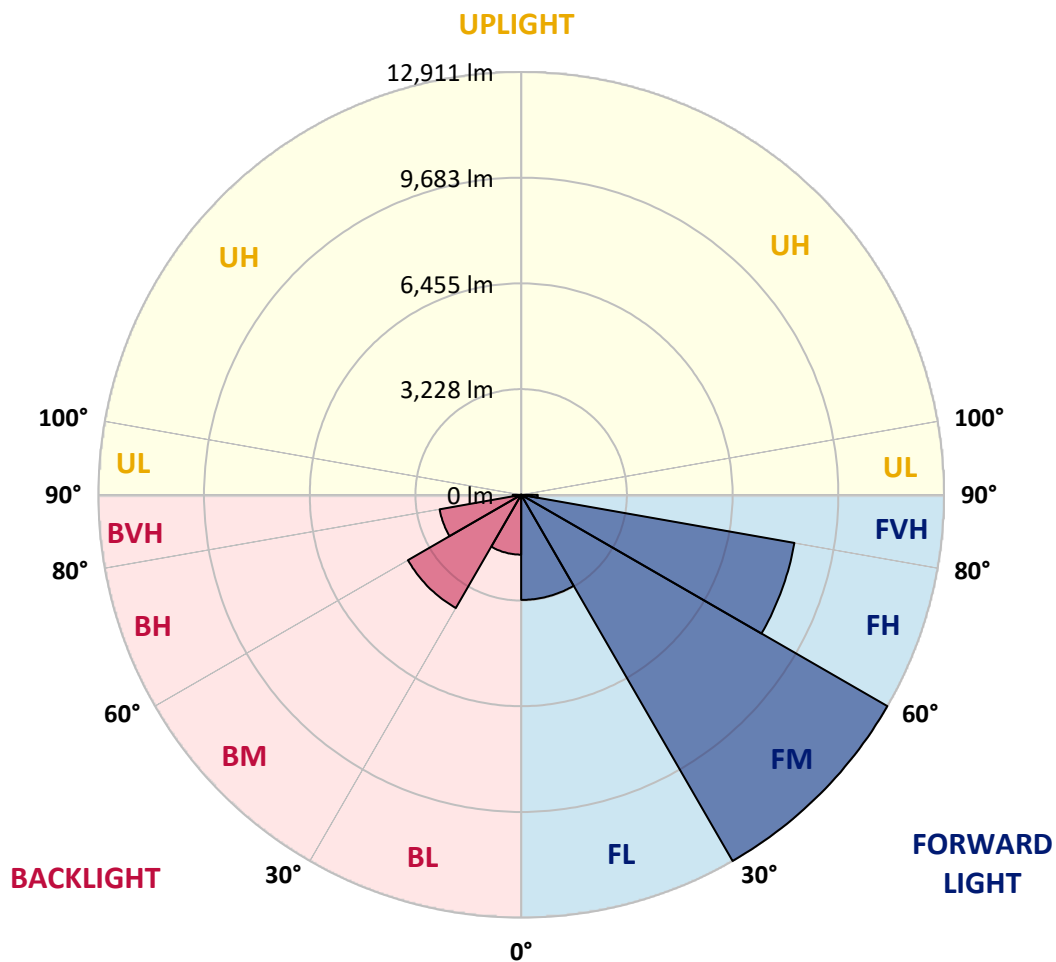
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3207.7	9.5			
FM	(30°-60°)	12910.9	38.3			
FH	(60°-80°)	8471.4	25.1			G4/12000
FVH	(80°-90°)	506.0	1.5			G4/750
BL	(0°-30°)	1827.1	5.4	B3/2500		
BM	(30°-60°)	3993.0	11.8	B3/5000		
BH	(60°-80°)	2526.9	7.5	B4/5000		G4/5000
BVH	(80°-90°)	259.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5650.3	5650.3	5650.3	5650.3	5650.3	5650.3	5650.3	5650.3	5650.3	5650.3	5650.3
2.5°	6023.7	6012.2	5998.1	5973.7	5945.4	5912.1	5877.5	5799.1	5718.3	5692.6	5637.5
5°	6354.8	6333.0	6315.0	6291.9	6238.0	6170.0	6079.0	5950.6	5824.8	5785.0	5670.8
7.5°	6647.4	6623.0	6590.9	6560.1	6501.1	6413.9	6290.6	6127.7	5976.2	5906.9	5720.9
10°	6907.9	6884.8	6868.2	6833.5	6786.0	6680.8	6534.5	6330.5	6154.6	6058.4	5800.4
12.5°	7196.6	7177.4	7142.8	7102.9	7040.1	6938.7	6792.4	6570.4	6383.0	6266.2	5922.3
15°	7490.5	7477.7	7416.1	7393.0	7322.4	7205.6	7076.0	6847.6	6656.4	6511.4	6096.9
17.5°	7751.0	7742.0	7703.6	7676.5	7618.9	7488.0	7354.4	7145.3	6950.3	6765.4	6290.6
20°	7917.9	7930.7	7923.0	7917.9	7914.0	7806.2	7674.0	7458.4	7262.1	7078.5	6498.6
22.5°	8073.2	8078.2	8098.8	8146.3	8214.2	8166.8	8024.4	7825.5	7625.2	7405.8	6768.0
25°	8121.9	8125.7	8205.3	8349.0	8540.3	8560.8	8444.0	8310.6	8092.3	7876.8	7137.6
27.5°	8161.7	8171.9	8272.0	8523.5	8859.8	8957.3	8914.9	8871.4	8717.4	8491.5	7634.2
30°	8150.1	8152.6	8318.2	8641.6	9113.9	9376.9	9441.1	9651.6	9613.1	9459.1	8465.8
32.5°	7938.3	7919.1	8159.1	8644.2	9312.8	9797.8	10094.3	10693.5	10920.7	10961.8	10128.9
35°	7507.2	7507.2	7866.5	8544.1	9456.5	10213.6	10838.5	11961.5	12727.6	12748.2	11709.9
37.5°	7147.9	7171.0	7573.9	8356.7	9523.2	10635.8	11692.0	13511.7	14320.1	14250.8	13030.4
40°	6789.8	6818.0	7231.3	8101.3	9483.5	11000.3	12519.6	14990.0	15662.5	15503.3	14155.8
42.5°	6393.3	6415.2	6802.7	7738.2	9346.1	11265.9	13409.0	16251.4	16786.6	16592.8	15182.5
45°	5996.8	6034.0	6383.0	7250.6	9077.9	11425.1	14171.3	17396.1	17829.8	17606.6	16116.7
47.5°	5412.9	5556.6	5963.4	6769.3	8591.5	11413.5	14847.5	18424.0	18792.3	18554.9	16958.5
50°	4225.8	4310.5	5207.5	6333.0	7949.9	11183.7	15381.4	19341.6	19657.3	19446.8	17809.4
52.5°	3838.3	3861.4	4151.4	5797.9	7239.0	10729.5	15776.6	20189.8	20497.8	20256.6	18579.3
55°	3639.4	3652.2	3794.7	4740.4	6635.8	9892.8	15956.3	20973.9	21206.2	20934.2	19231.2
57.5°	3368.6	3408.4	3607.3	4041.1	6018.5	8709.6	15724.0	21590.0	21822.2	21527.0	19854.9
60°	3168.5	3192.8	3363.5	3699.7	5303.8	7326.2	14920.7	22035.2	22348.3	22076.2	20433.7
62.5°	2970.8	2984.9	3128.6	3452.0	4689.1	6297.1	13420.6	21983.9	22617.8	22481.8	20947.0
63°	2929.8	2942.6	3086.3	3407.2	4598.0	6086.6	13104.8	21919.7	22617.8	22522.9	21011.1
65°	2747.5	2762.9	2905.4	3197.9	4216.8	5557.9	11695.8	21520.6	22537.0	22581.9	21102.3
67.5°	2476.8	2502.4	2620.5	2875.8	3644.5	4913.7	9605.3	21103.6	21956.9	22053.1	20597.9
70°	2157.2	2162.3	2304.8	2519.1	3072.1	4179.6	7404.6	19838.3	20823.7	20866.1	19418.6
72.5°	1817.1	1831.2	1959.5	2140.5	2548.6	3461.0	5293.6	17491.1	19240.3	19478.9	17443.6
75°	1586.1	1597.7	1705.5	1832.6	2116.1	2728.3	3540.6	12754.5	16962.4	17228.0	15088.8
77.5°	1328.2	1335.9	1448.8	1536.1	1719.6	2058.4	2444.7	6729.5	11683.0	13097.2	11788.2
80°	945.7	947.0	1060.0	1128.1	1246.0	1265.3	1554.0	3581.6	5140.8	6643.6	7790.8
82.5°	205.3	295.2	444.0	558.2	624.9	526.1	764.8	1962.1	2839.9	3390.4	4223.3
85°	88.5	121.9	234.9	258.0	171.9	189.9	310.6	1045.9	1623.3	1932.6	2173.9
87.5°	16.6	21.8	60.3	80.9	50.0	52.6	62.9	334.9	568.5	667.3	744.3
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°	5650.3	5650.3	5650.3	5650.3	5650.3	5650.3	5650.3	5650.3	5650.3	5650.3	5650.3
2.5°	5604.1	5588.6	5537.3	5502.7	5480.8	5452.7	5416.7	5369.2	5355.1	5321.8	5348.7
5°	5607.9	5566.9	5459.1	5380.8	5310.2	5248.6	5176.8	5108.7	5083.1	5038.1	5056.1
7.5°	5625.9	5556.6	5389.8	5270.5	5165.2	5081.8	4981.7	4898.3	4868.8	4817.5	4826.5
10°	5673.4	5565.5	5335.9	5190.9	5045.9	4924.0	4807.2	4692.9	4641.6	4596.7	4618.5
12.5°	5756.8	5598.9	5311.5	5125.5	4932.9	4784.1	4613.4	4467.1	4395.2	4337.5	4356.7
15°	5882.6	5663.2	5283.3	5031.8	4799.4	4605.7	4396.6	4211.7	4130.9	4085.9	4107.7
17.5°	6010.9	5756.8	5266.5	4917.5	4639.1	4387.6	4186.1	4011.5	3864.0	3830.6	3843.4
20°	6162.4	5853.1	5279.5	4796.9	4450.4	4152.7	3914.0	3797.2	3606.0	3539.3	3543.1
22.5°	6362.5	6003.2	5290.9	4678.8	4225.8	3893.4	3615.0	3499.5	3316.0	3197.9	3203.0
25°	6649.9	6189.3	5317.9	4569.8	4005.2	3608.5	3286.4	3094.0	2979.8	2829.6	2830.9
27.5°	7043.9	6444.6	5371.8	4467.1	3770.3	3281.3	2887.4	2671.8	2571.7	2472.9	2460.0
30°	7716.4	6866.9	5451.4	4354.2	3491.8	2886.1	2466.5	2277.8	2193.1	2112.3	2103.3
32.5°	9135.7	7892.1	5561.7	4211.7	3191.6	2436.9	2094.4	1945.4	1826.1	1746.5	1758.1
35°	10592.2	9176.7	6028.8	4042.4	2852.7	2044.2	1814.5	1629.8	1477.1	1415.5	1419.3
37.5°	11839.5	10340.7	6730.8	3858.8	2478.0	1791.4	1533.6	1355.2	1233.2	1202.5	1240.9
40°	12877.7	11296.7	7294.1	3665.0	2084.1	1578.4	1249.9	1152.4	1074.1	1065.1	1099.8
42.5°	13859.5	12160.3	7767.7	3441.7	1717.0	1303.8	1038.2	1061.3	1049.7	1048.5	1053.5
45°	14751.3	12961.1	8032.0	3109.4	1457.8	1067.6	980.4	1067.6	1086.9	1084.4	1070.3
47.5°	15563.6	13692.6	8211.7	2628.1	1234.5	1001.0	1012.5	1071.6	1107.5	1113.8	1098.5
50°	16406.7	14407.4	8240.0	2045.5	1146.0	1053.5	1040.7	1033.1	1098.5	1097.2	1098.5
52.5°	17160.0	15020.8	7932.0	1590.0	1192.2	1108.8	1063.8	1018.9	1056.2	1057.5	1031.7
55°	17727.3	15523.8	7404.6	1393.7	1230.6	1155.0	1130.6	1040.7	1017.6	1002.2	1011.3
57.5°	18312.4	15973.0	6688.5	1305.1	1242.2	1165.3	1189.6	1045.9	1011.3	940.7	935.5
60°	18875.8	16336.1	5840.3	1246.0	1228.1	1160.1	1152.4	1085.7	1018.9	913.7	877.8
62.5°	19218.4	16415.7	4972.7	1188.4	1201.2	1152.4	1111.3	1115.1	1069.0	1011.3	1003.5
63°	19258.2	16388.8	4807.2	1174.2	1194.7	1151.1	1111.3	1117.8	1069.0	1034.4	1035.6
65°	19208.1	16075.6	4157.8	1113.8	1171.6	1130.6	1094.7	1062.5	983.0	1004.8	1030.4
67.5°	18646.1	15051.6	3196.7	1016.3	1120.3	1097.2	1044.6	965.0	893.2	879.1	894.4
70°	17128.0	13374.3	2265.0	866.3	1027.9	1054.8	1031.7	912.4	840.5	827.7	858.5
72.5°	15020.8	11612.4	1555.3	693.0	861.1	981.7	975.3	879.1	814.9	777.6	793.0
75°	12644.2	9366.7	1086.9	583.9	663.5	884.2	925.3	850.8	802.0	767.4	762.3
77.5°	9735.0	7074.7	854.7	499.2	548.0	716.1	850.8	844.4	904.7	1067.6	1031.7
80°	6632.0	4704.5	616.0	374.7	436.4	501.8	732.7	871.3	1144.7	672.4	659.6
82.5°	3855.0	2764.2	385.0	249.0	260.5	341.4	459.5	920.1	766.1	302.8	382.4
85°	1862.0	1203.7	192.5	171.9	119.3	128.4	213.0	857.2	542.8	134.7	26.9
87.5°	594.2	292.6	20.6	15.4	18.0	25.6	101.3	523.6	319.6	115.5	16.6
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)