

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: P285747

Luminaire Tested: **USSL-XL-C04-D-U-T2-AP-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285747
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-C04-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: 37986.8 lumens
Efficiency: N/A
Efficacy: 143.9 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

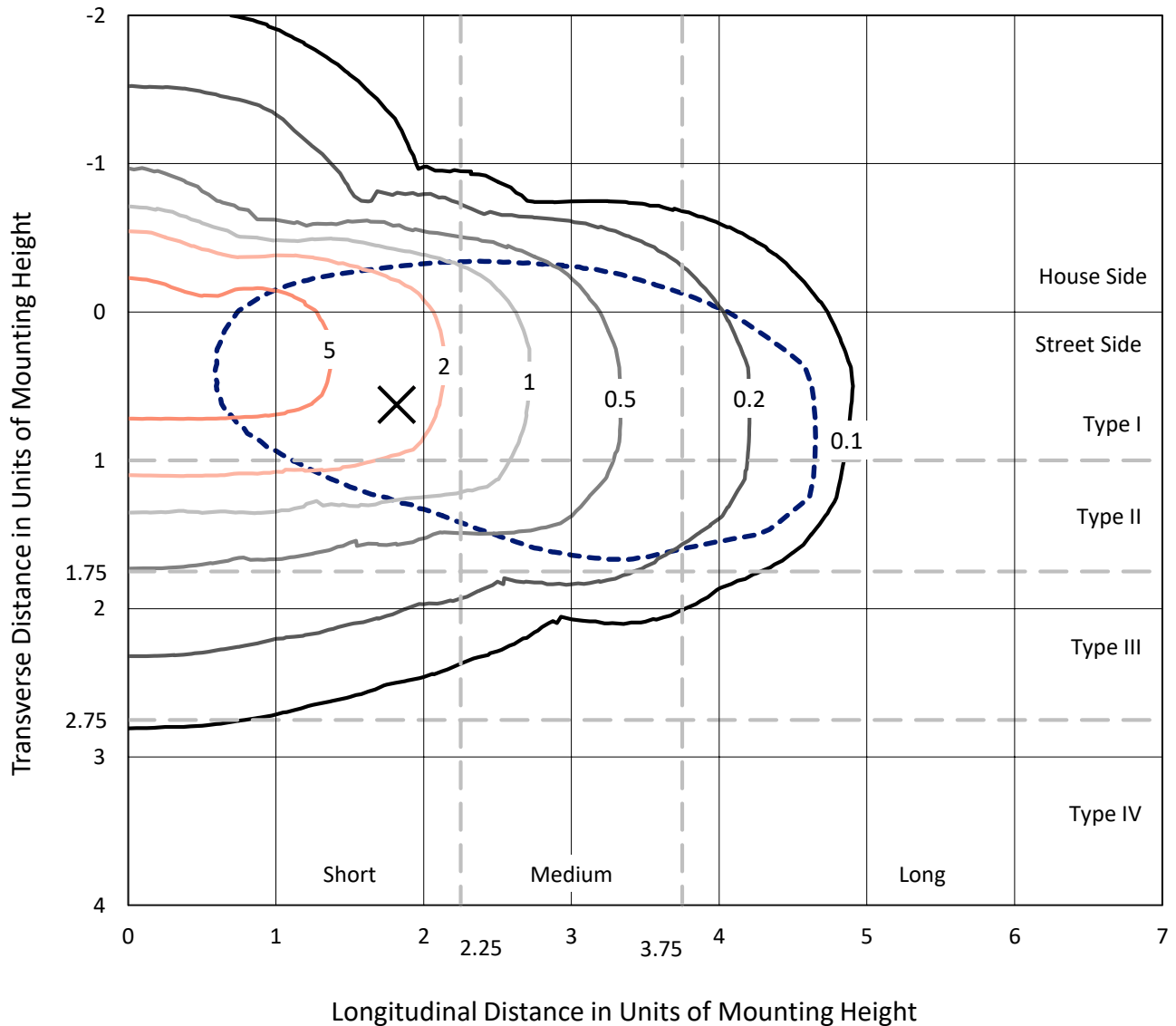
Input Watts (W): 264
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

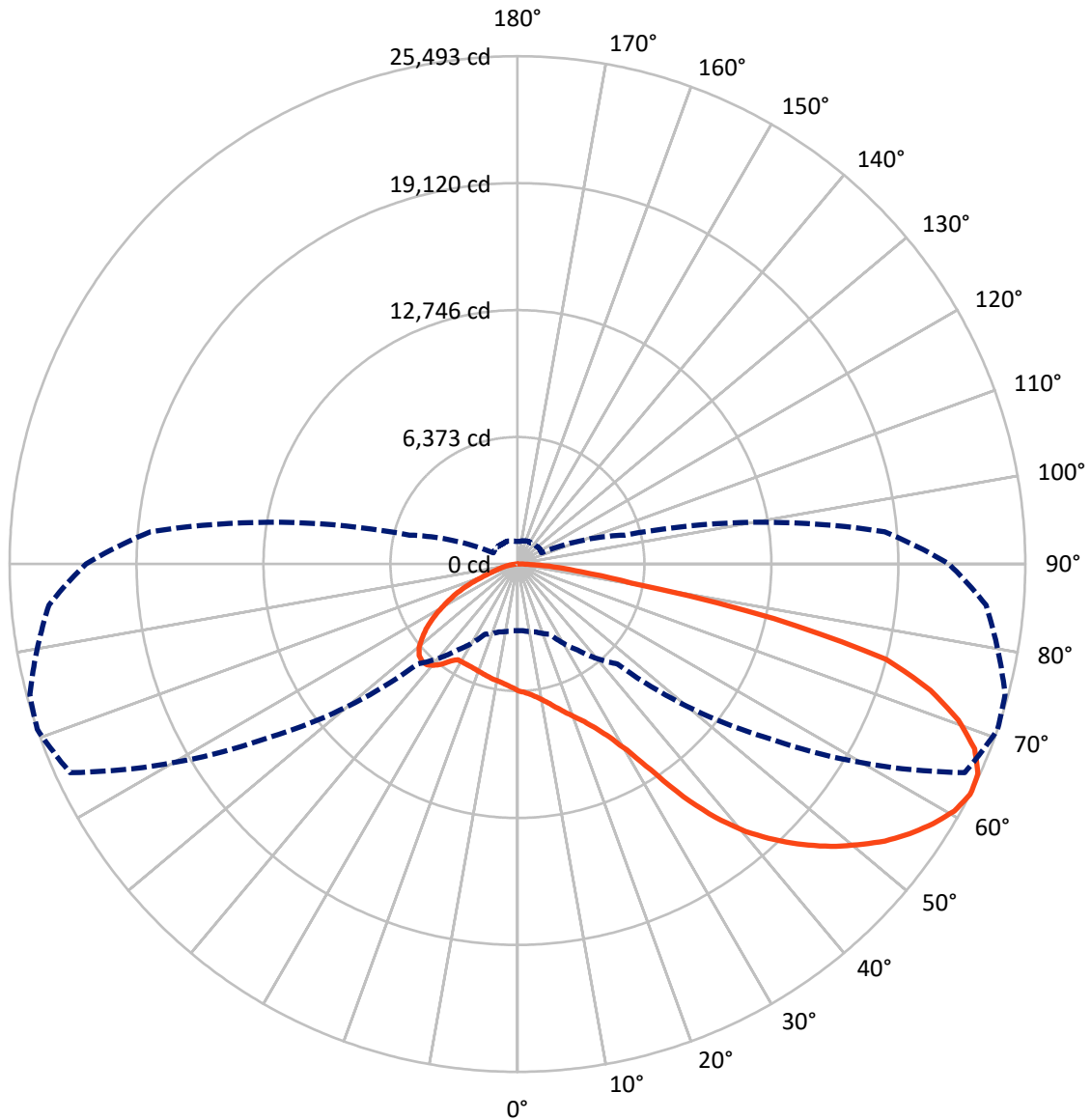
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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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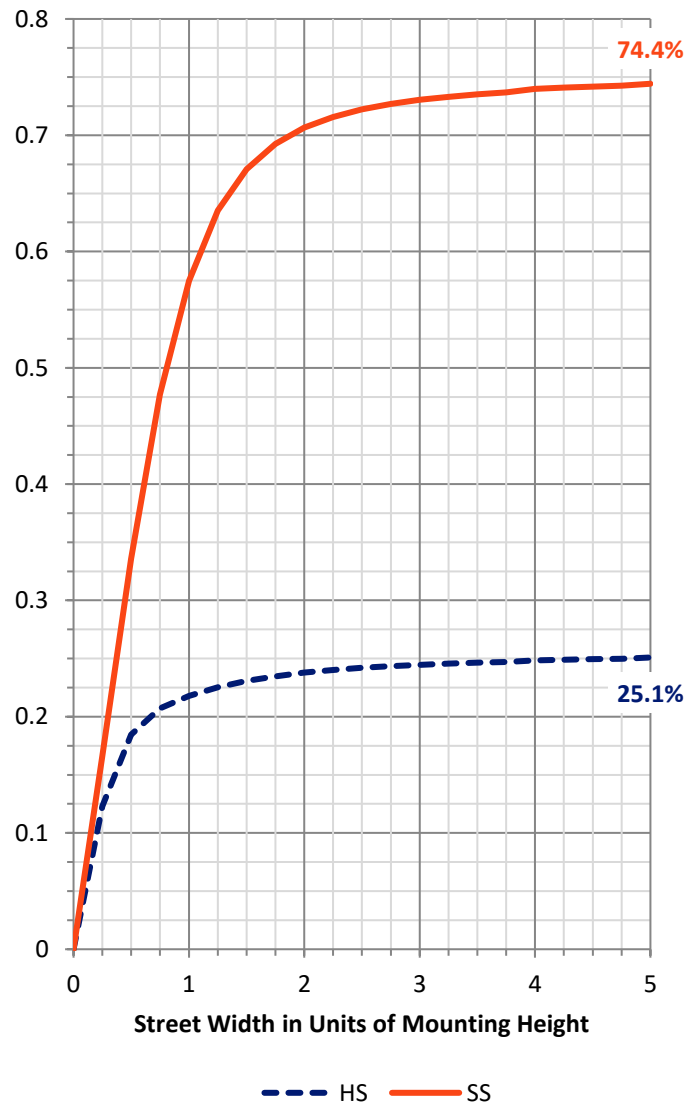
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9700.7	0.0	9700.7
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	28286.1	0.0	28286.1
	% Fixture	74.5	0.0	74.5
Total	Lumens	37986.8	0.0	37986.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.6	1.6
10°-20°	1877.9	4.9
20°-30°	3183.4	8.4
30°-40°	4798.0	12.6
40°-50°	6591.4	17.4
50°-60°	7663.2	20.2
60°-70°	7561.4	19.9
70°-80°	4834.9	12.7
80°-90°	863.1	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°	37986.8	100.0
0°-180°	37986.8	100.0



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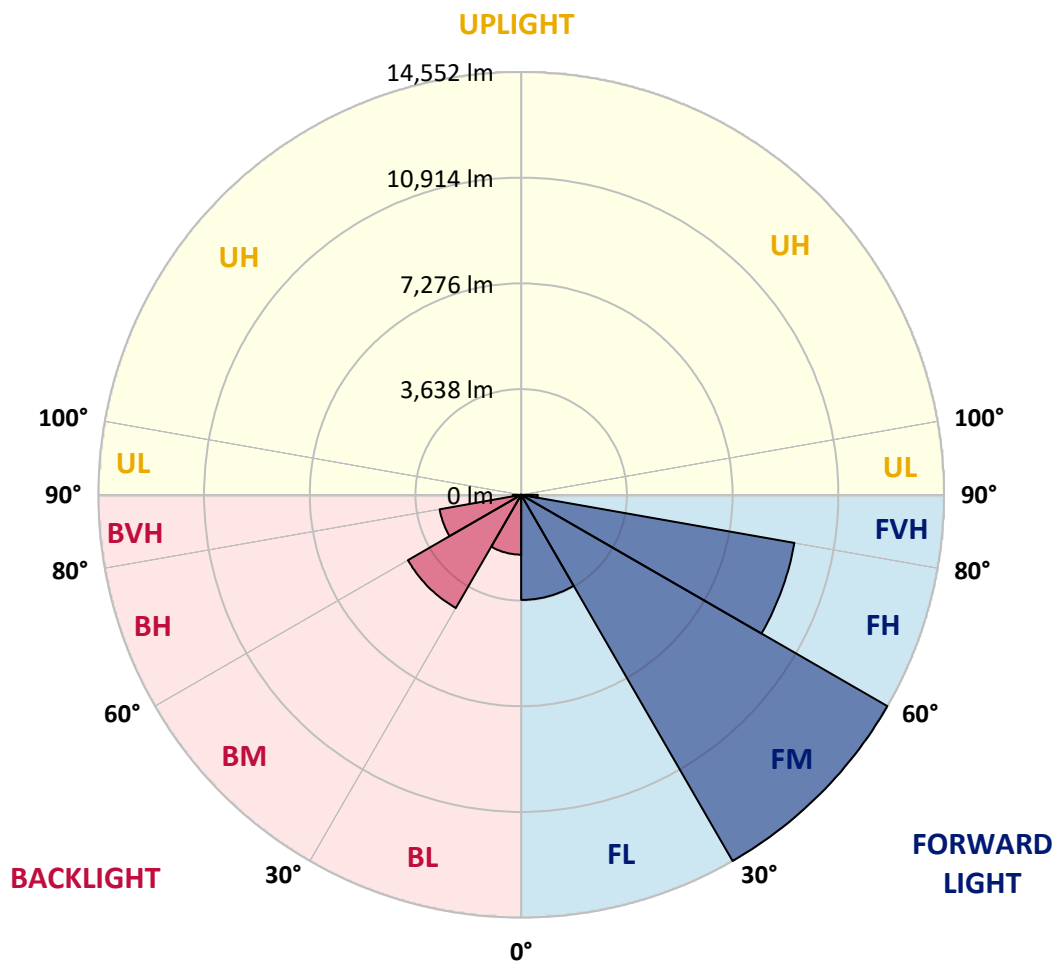
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3615.5	9.5			
FM	(30°-60°)	14552.1	38.3			
FH	(60°-80°)	9548.3	25.1			G4/12000
FVH	(80°-90°)	570.3	1.5			G4/750
BL	(0°-30°)	2059.3	5.4	B3/2500		
BM	(30°-60°)	4500.6	11.8	B3/5000		
BH	(60°-80°)	2848.1	7.5	B4/5000		G4/5000
BVH	(80°-90°)	292.8	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°	6368.5	6368.5	6368.5	6368.5	6368.5	6368.5	6368.5	6368.5	6368.5	6368.5	6368.5
2.5°	6789.4	6776.4	6760.5	6733.0	6701.2	6663.6	6624.5	6536.3	6445.1	6416.2	6354.1
5°	7162.6	7138.0	7117.8	7091.7	7031.0	6954.3	6851.6	6706.9	6565.2	6520.4	6391.6
7.5°	7492.3	7464.9	7428.7	7394.0	7327.5	7229.2	7090.3	6906.6	6735.9	6657.8	6448.1
10°	7786.0	7760.0	7741.2	7702.1	7648.6	7530.0	7365.1	7135.1	6936.9	6828.5	6537.8
12.5°	8111.4	8089.7	8050.7	8005.8	7934.9	7820.7	7655.9	7405.6	7194.4	7062.7	6675.1
15°	8442.6	8428.2	8358.8	8332.7	8253.2	8121.6	7975.4	7718.0	7502.5	7339.1	6871.9
17.5°	8736.3	8726.2	8682.8	8652.4	8587.3	8439.8	8289.4	8053.5	7833.7	7625.5	7090.3
20°	8924.4	8938.8	8930.1	8924.4	8920.0	8798.4	8649.5	8406.5	8185.2	7978.4	7324.5
22.5°	9099.3	9105.1	9128.3	9181.8	9258.4	9204.9	9044.3	8820.2	8594.5	8347.2	7628.3
25°	9154.3	9158.6	9248.3	9410.3	9625.8	9649.0	9517.4	9366.9	9121.1	8878.0	8044.9
27.5°	9199.1	9210.7	9323.5	9607.0	9986.0	10095.9	10048.2	9999.0	9825.4	9570.9	8604.7
30°	9186.2	9189.0	9375.6	9740.1	10272.3	10568.9	10641.2	10878.4	10835.0	10661.4	9542.0
32.5°	8947.5	8925.7	9196.2	9743.0	10496.5	11043.3	11377.4	12052.9	12308.9	12355.1	11416.5
35°	8461.5	8461.5	8866.5	9630.1	10658.6	11511.9	12216.3	13481.9	14345.4	14368.5	13198.4
37.5°	8056.5	8082.5	8536.6	9419.0	10733.8	11987.8	13178.2	15229.2	16140.5	16062.4	14686.8
40°	7652.9	7684.7	8150.5	9131.1	10688.9	12398.6	14111.1	16895.4	17653.4	17474.0	15955.3
42.5°	7205.9	7230.5	7667.4	8721.8	10534.1	12698.0	15113.4	18317.3	18920.4	18702.0	17112.4
45°	6759.1	6801.0	7194.4	8172.1	10231.9	12877.4	15972.7	19607.4	20096.3	19844.7	18165.4
47.5°	6100.9	6262.9	6721.5	7629.8	9683.7	12864.3	16734.9	20766.0	21181.1	20913.5	19114.2
50°	4763.0	4858.5	5869.5	7138.0	8960.5	12605.4	17336.6	21800.2	22156.0	21918.8	20073.2
52.5°	4326.2	4352.3	4679.1	6534.8	8159.2	12093.4	17782.0	22756.3	23103.4	22831.5	20941.1
55°	4102.0	4116.4	4277.0	5343.1	7479.4	11150.4	17984.6	23640.0	23901.8	23595.2	21675.8
57.5°	3796.8	3841.6	4065.9	4554.7	6783.7	9816.8	17722.8	24334.4	24596.1	24263.4	22378.7
60°	3571.1	3598.7	3791.1	4170.0	5977.9	8257.6	16817.3	24836.2	25189.2	24882.5	23031.1
62.5°	3348.4	3364.3	3526.3	3890.8	5285.2	7097.5	15126.5	24778.3	25492.9	25339.6	23609.7
63°	3302.1	3316.6	3478.6	3840.2	5182.5	6860.3	14770.7	24706.1	25492.9	25385.9	23682.0
65°	3096.7	3114.1	3274.7	3604.4	4752.9	6264.3	13182.5	24256.2	25401.8	25452.3	23784.7
67.5°	2791.6	2820.5	2953.5	3241.4	4107.7	5538.3	10826.3	23786.2	24748.0	24856.5	23216.3
70°	2431.4	2437.2	2597.7	2839.3	3462.7	4710.9	8345.8	22360.0	23470.8	23518.5	21887.0
72.5°	2048.2	2064.0	2208.6	2412.7	2872.5	3901.0	5966.4	19714.5	21686.0	21955.0	19660.9
75°	1787.7	1800.8	1922.2	2065.4	2385.1	3075.1	3990.6	14375.8	19118.6	19418.0	17006.8
77.5°	1497.0	1505.7	1633.0	1731.3	1938.1	2320.0	2755.4	7585.0	13168.1	14762.0	13286.7
80°	1066.0	1067.4	1194.7	1271.4	1404.5	1426.2	1751.6	4036.9	5794.3	7488.1	8781.2
82.5°	231.4	332.7	500.5	629.2	704.4	593.0	862.0	2211.6	3200.9	3821.4	4760.1
85°	99.8	137.4	264.7	290.7	193.9	214.1	350.0	1178.8	1829.7	2178.3	2450.2
87.5°	18.8	24.6	67.9	91.2	56.4	59.4	70.9	377.5	640.7	752.1	838.9
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°	6368.5	6368.5	6368.5	6368.5	6368.5	6368.5	6368.5	6368.5	6368.5	6368.5	6368.5
2.5°	6316.5	6299.1	6241.2	6202.2	6177.6	6145.7	6105.2	6051.7	6035.8	5998.2	6028.6
5°	6320.8	6274.5	6153.0	6064.7	5985.3	5915.8	5834.7	5758.1	5729.2	5678.6	5698.9
7.5°	6341.1	6262.9	6074.9	5940.4	5821.8	5727.8	5614.9	5520.9	5487.6	5429.8	5439.9
10°	6394.6	6273.0	6014.2	5850.8	5687.2	5549.8	5418.2	5289.5	5231.7	5181.0	5205.6
12.5°	6488.6	6310.6	5986.6	5777.0	5560.0	5392.2	5199.9	5034.9	4954.0	4888.9	4910.5
15°	6630.3	6382.9	5954.8	5671.3	5409.5	5191.2	4955.4	4747.1	4655.9	4605.4	4630.0
17.5°	6775.0	6488.6	5936.1	5542.6	5228.8	4945.3	4718.1	4521.4	4355.1	4317.5	4332.0
20°	6945.6	6597.0	5950.5	5406.7	5016.1	4680.5	4411.5	4279.9	4064.4	3989.1	3993.5
22.5°	7171.3	6766.3	5963.5	5273.6	4763.0	4388.4	4074.6	3944.3	3737.5	3604.4	3610.2
25°	7495.3	6976.0	5993.9	5150.7	4514.2	4067.3	3704.2	3487.3	3358.5	3189.3	3190.7
27.5°	7939.3	7263.8	6054.7	5034.9	4249.6	3698.4	3254.4	3011.4	2898.6	2787.2	2772.8
30°	8697.2	7739.7	6144.3	4907.7	3935.6	3252.9	2780.0	2567.4	2471.9	2380.7	2370.7
32.5°	10296.9	8895.4	6268.7	4747.1	3597.2	2746.7	2360.5	2192.7	2058.2	1968.6	1981.6
35°	11938.6	10343.2	6795.2	4556.2	3215.3	2304.1	2045.2	1836.9	1664.8	1595.4	1599.7
37.5°	13344.6	11655.1	7586.3	4349.3	2793.0	2019.2	1728.5	1527.4	1390.0	1355.3	1398.6
40°	14514.7	12732.7	8221.3	4131.0	2349.0	1779.0	1408.8	1298.9	1210.6	1200.5	1239.6
42.5°	15621.1	13706.1	8755.1	3879.2	1935.3	1469.6	1170.1	1196.2	1183.2	1181.7	1187.5
45°	16626.4	14608.7	9053.0	3504.7	1643.2	1203.4	1105.1	1203.4	1225.1	1222.2	1206.3
47.5°	17542.0	15433.1	9255.6	2962.2	1391.4	1128.2	1141.2	1207.8	1248.2	1255.5	1238.1
50°	18492.3	16238.8	9287.4	2305.6	1291.6	1187.5	1173.0	1164.4	1238.1	1236.7	1238.1
52.5°	19341.3	16930.2	8940.3	1792.1	1343.7	1249.7	1199.1	1148.4	1190.4	1191.9	1162.9
55°	19980.6	17497.1	8345.8	1570.8	1387.1	1301.8	1274.3	1173.0	1147.0	1129.6	1139.8
57.5°	20640.2	18003.4	7538.6	1471.0	1400.1	1313.3	1340.8	1178.8	1139.8	1060.2	1054.4
60°	21275.2	18412.7	6582.6	1404.5	1384.2	1307.6	1298.9	1223.7	1148.4	1029.8	989.3
62.5°	21661.4	18502.4	5604.9	1339.4	1353.8	1298.9	1252.6	1256.9	1204.9	1139.8	1131.1
63°	21706.2	18472.0	5418.2	1323.5	1346.6	1297.4	1252.6	1259.8	1204.9	1165.8	1167.3
65°	21649.7	18119.1	4686.3	1255.5	1320.5	1274.3	1233.8	1197.6	1107.9	1132.5	1161.4
67.5°	21016.2	16964.9	3603.0	1145.5	1262.7	1236.7	1177.3	1087.7	1006.7	990.8	1008.2
70°	19305.1	15074.4	2552.9	976.3	1158.6	1189.0	1162.9	1028.4	947.4	932.9	967.7
72.5°	16930.2	13088.5	1753.1	781.0	970.6	1106.5	1099.2	990.8	918.5	876.5	893.9
75°	14251.4	10557.3	1225.1	658.1	747.8	996.6	1042.8	959.0	904.0	865.0	859.2
77.5°	10972.4	7974.1	963.3	562.7	617.6	807.1	959.0	951.7	1019.7	1203.4	1162.9
80°	7475.1	5302.5	694.2	422.4	491.8	565.6	825.9	982.1	1290.2	757.9	743.4
82.5°	4345.0	3115.6	433.9	280.6	293.6	384.7	517.8	1037.1	863.5	341.4	431.1
85°	2098.7	1356.8	217.0	193.9	134.5	144.7	240.1	966.2	611.9	151.9	30.4
87.5°	669.6	329.7	23.1	17.4	20.2	28.9	114.3	590.2	360.2	130.2	18.8
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)