

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: P285752

Luminaire Tested: **USSL-XL-C04-D-U-T2-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285752
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-BZ
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36503 lumens
Efficiency: N/A
Efficacy: 138.3 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): 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

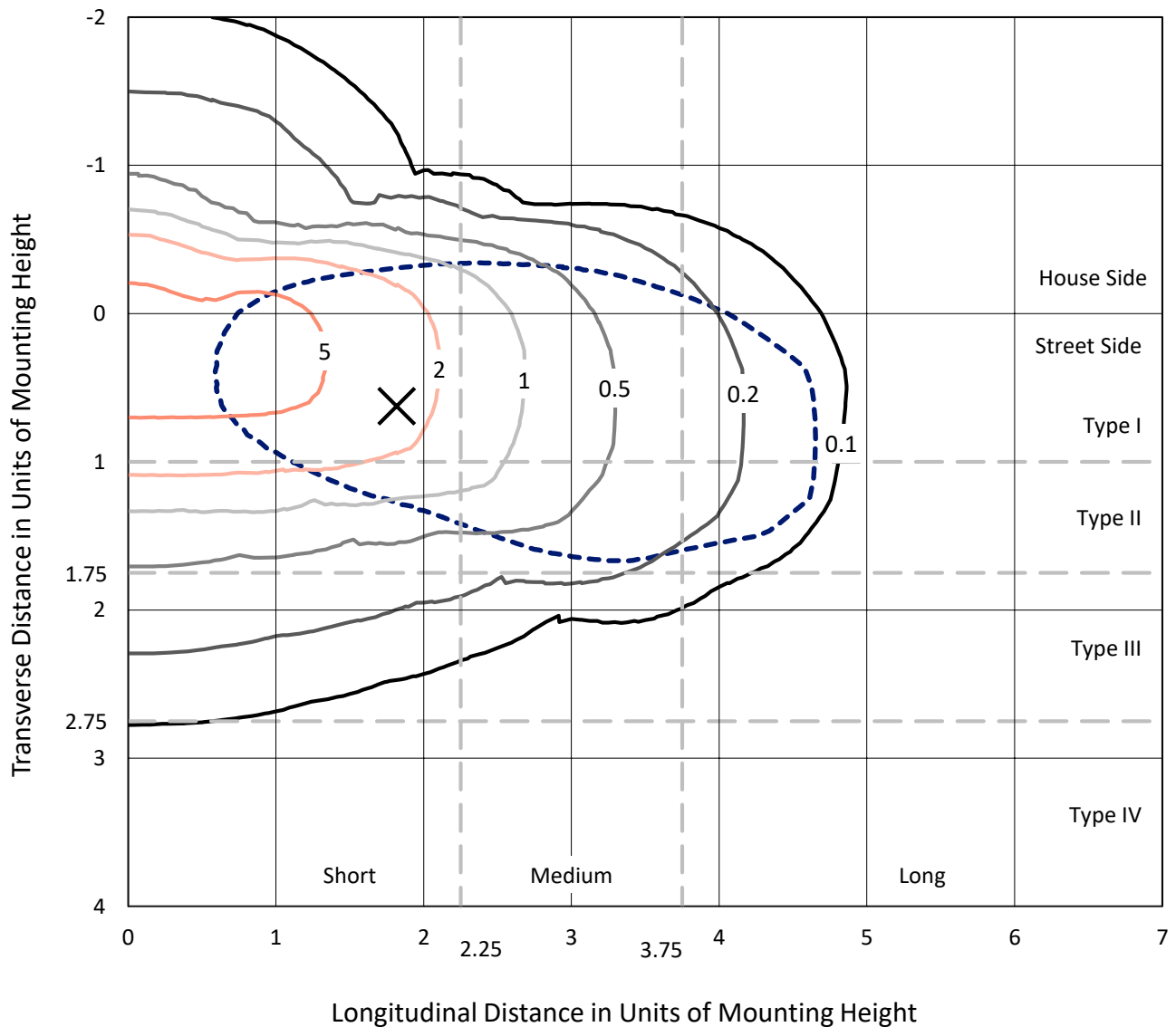


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

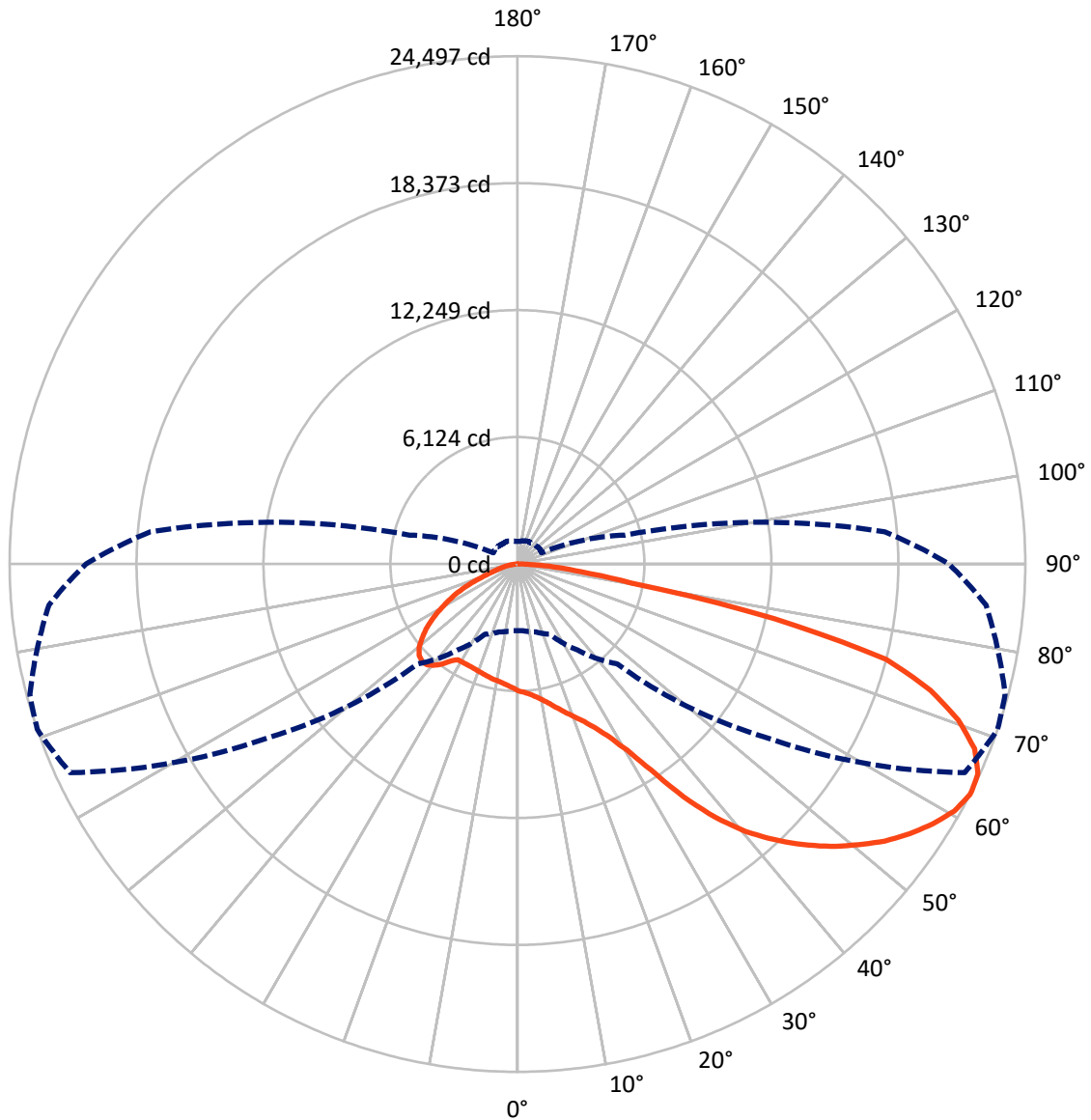


Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - Non-Cutoff

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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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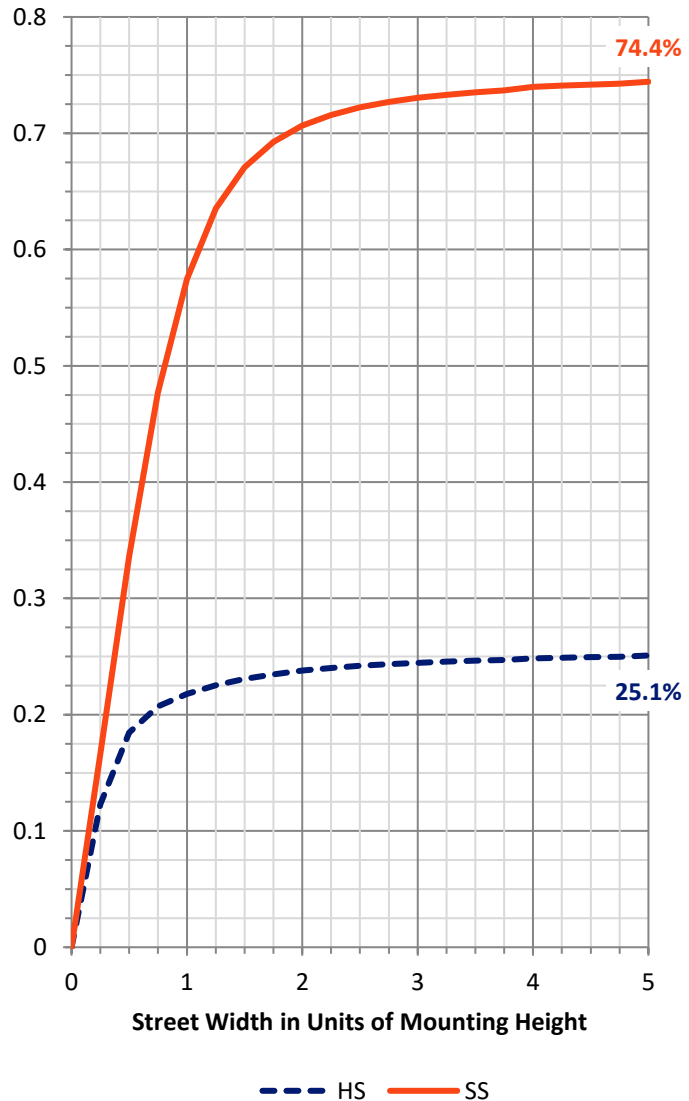
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9321.8	0.0	9321.8
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	27181.2	0.0	27181.2
	% Fixture	74.5	0.0	74.5
Total	Lumens	36503.0	0.0	36503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.6	1.6
10°-20°	1804.5	4.9
20°-30°	3059.0	8.4
30°-40°	4610.6	12.6
40°-50°	6333.9	17.4
50°-60°	7363.9	20.2
60°-70°	7266.1	19.9
70°-80°	4646.1	12.7
80°-90°	829.4	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°	36503.0	100.0
0°-180°	36503.0	100.0

Coefficient of Utilization



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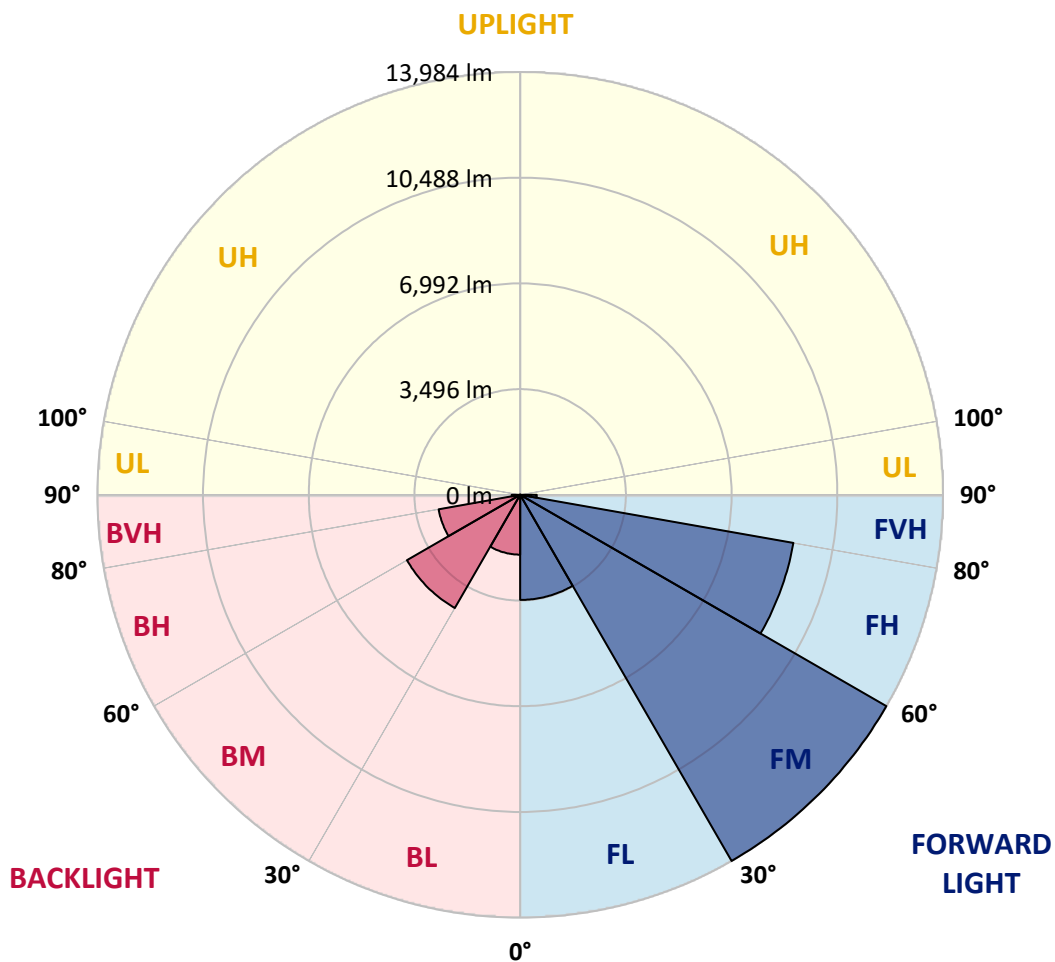
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3474.2	9.5			
FM	(30°-60°)	13983.6	38.3			
FH	(60°-80°)	9175.3	25.1			G4/12000
FVH	(80°-90°)	548.0	1.5			G4/750
BL	(0°-30°)	1978.9	5.4	B3/2500		
BM	(30°-60°)	4324.8	11.8	B3/5000		
BH	(60°-80°)	2736.8	7.5	B4/5000		G4/5000
BVH	(80°-90°)	281.3	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°	6119.8	6119.8	6119.8	6119.8	6119.8	6119.8	6119.8	6119.8	6119.8	6119.8	6119.8
2.5°	6524.2	6511.7	6496.4	6470.0	6439.4	6403.3	6365.8	6281.0	6193.4	6165.6	6105.9
5°	6882.8	6859.2	6839.7	6814.7	6756.3	6682.7	6584.0	6445.0	6308.8	6265.7	6142.0
7.5°	7199.7	7173.3	7138.6	7105.2	7041.3	6946.7	6813.3	6636.8	6472.8	6397.7	6196.2
10°	7481.9	7456.8	7438.8	7401.2	7349.8	7235.9	7077.4	6856.4	6666.0	6561.7	6282.4
12.5°	7794.6	7773.7	7736.2	7693.1	7625.0	7515.2	7356.8	7116.3	6913.4	6786.9	6414.4
15°	8112.9	8099.0	8032.3	8007.2	7930.8	7804.3	7663.9	7416.5	7209.4	7052.4	6603.4
17.5°	8395.0	8385.3	8343.6	8314.4	8251.9	8110.1	7965.6	7739.0	7527.7	7327.6	6813.3
20°	8575.7	8589.6	8581.3	8575.7	8571.5	8454.8	8311.6	8078.1	7865.5	7666.7	7038.5
22.5°	8743.9	8749.5	8771.7	8823.1	8896.8	8845.4	8691.1	8475.6	8258.8	8021.1	7330.4
25°	8796.7	8800.9	8887.1	9042.7	9249.8	9272.1	9145.6	9001.0	8764.7	8531.2	7730.7
27.5°	8839.8	8850.9	8959.3	9231.8	9595.9	9701.5	9655.7	9608.4	9441.6	9197.0	8268.6
30°	8827.3	8830.1	9009.4	9359.6	9871.1	10156.0	10225.5	10453.5	10411.8	10245.0	9169.2
32.5°	8598.0	8577.1	8837.0	9362.4	10086.5	10611.9	10933.0	11582.1	11828.1	11872.6	10970.5
35°	8130.9	8130.9	8520.1	9254.0	10242.2	11062.3	11739.1	12955.3	13785.1	13807.3	12682.9
37.5°	7741.8	7766.8	8203.2	9051.1	10314.5	11519.5	12663.4	14634.3	15510.0	15434.9	14113.1
40°	7354.0	7384.6	7832.1	8774.5	10271.4	11914.3	13559.9	16235.5	16963.8	16791.5	15332.1
42.5°	6924.5	6948.1	7367.9	8381.1	10122.7	12202.0	14523.1	17601.8	18181.4	17971.5	16444.0
45°	6495.0	6535.3	6913.4	7853.0	9832.2	12374.3	15348.7	18841.6	19311.4	19069.5	17455.8
47.5°	5862.6	6018.3	6458.9	7331.8	9305.4	12361.8	16081.2	19954.9	20353.8	20096.6	18367.6
50°	4577.0	4668.7	5640.2	6859.2	8610.5	12113.0	16659.4	20948.7	21290.6	21062.6	19289.1
52.5°	4157.2	4182.2	4496.3	6279.6	7840.5	11621.0	17087.5	21867.4	22201.0	21939.7	20123.1
55°	3941.8	3955.7	4110.0	5134.3	7187.2	10714.8	17282.1	22716.6	22968.2	22673.5	20829.1
57.5°	3648.5	3691.6	3907.0	4376.8	6518.7	9433.3	17030.5	23383.8	23635.3	23315.7	21504.6
60°	3431.7	3458.1	3642.9	4007.1	5744.5	7935.0	16160.4	23866.1	24205.2	23910.6	22131.5
62.5°	3217.6	3232.9	3388.6	3738.8	5078.7	6820.3	14535.6	23810.5	24497.1	24349.8	22687.4
63°	3173.2	3187.1	3342.7	3690.2	4980.0	6592.3	14193.7	23741.0	24497.1	24394.2	22756.9
65°	2975.8	2992.5	3146.7	3463.6	4567.2	6019.7	12667.6	23308.7	24409.5	24458.2	22855.6
67.5°	2682.5	2710.3	2838.2	3114.8	3947.3	5321.9	10403.4	22857.0	23781.3	23885.5	22309.4
70°	2336.4	2342.0	2496.3	2728.4	3327.4	4526.9	8019.8	21486.6	22554.0	22599.9	21032.1
72.5°	1968.1	1983.4	2122.4	2318.4	2760.4	3748.6	5733.4	18944.4	20838.9	21097.4	18893.0
75°	1717.9	1730.4	1847.2	1984.8	2292.0	2954.9	3834.8	13814.3	18371.8	18659.5	16342.5
77.5°	1438.6	1446.9	1569.2	1663.7	1862.5	2229.4	2647.8	7288.7	12653.7	14185.4	12767.7
80°	1024.4	1025.8	1148.1	1221.7	1349.6	1370.4	1683.2	3879.2	5568.0	7195.5	8438.1
82.5°	222.4	319.7	480.9	604.6	676.9	569.9	828.4	2125.2	3075.9	3672.1	4574.2
85°	95.9	132.0	254.4	279.4	186.2	205.7	336.4	1132.8	1758.2	2093.2	2354.5
87.5°	18.1	23.6	65.3	87.6	54.2	57.0	68.1	362.8	615.7	722.8	806.1
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°	6119.8	6119.8	6119.8	6119.8	6119.8	6119.8	6119.8	6119.8	6119.8	6119.8	6119.8
2.5°	6069.7	6053.0	5997.4	5959.9	5936.3	5905.7	5866.8	5815.4	5800.1	5763.9	5793.1
5°	6073.9	6029.4	5912.7	5827.9	5751.4	5684.7	5606.9	5533.2	5505.4	5456.8	5476.2
7.5°	6093.3	6018.3	5837.6	5708.3	5594.4	5504.0	5395.6	5305.3	5273.3	5217.7	5227.4
10°	6144.8	6028.0	5779.2	5622.2	5465.1	5333.1	5206.6	5082.9	5027.3	4978.6	5002.3
12.5°	6235.1	6064.2	5752.8	5551.3	5342.8	5181.6	4996.7	4838.3	4760.4	4697.9	4718.7
15°	6371.3	6133.7	5722.2	5449.8	5198.2	4988.4	4761.8	4561.7	4474.1	4425.5	4449.1
17.5°	6510.3	6235.1	5704.2	5326.1	5024.5	4752.1	4533.9	4344.8	4185.0	4148.9	4162.8
20°	6674.3	6339.4	5718.1	5195.5	4820.2	4497.7	4239.2	4112.7	3905.6	3833.4	3837.5
22.5°	6891.2	6502.0	5730.6	5067.6	4577.0	4217.0	3915.4	3790.3	3591.5	3463.6	3469.2
25°	7202.5	6703.5	5759.8	4949.5	4337.9	3908.4	3559.5	3351.1	3227.4	3064.7	3066.1
27.5°	7629.2	6980.1	5818.1	4838.3	4083.5	3554.0	3127.3	2893.8	2785.4	2678.3	2664.4
30°	8357.5	7437.4	5904.3	4716.0	3781.9	3125.9	2671.4	2467.1	2375.3	2287.8	2278.1
32.5°	9894.7	8547.9	6023.9	4561.7	3456.7	2639.4	2268.3	2107.1	1977.8	1891.7	1904.2
35°	11472.3	9939.2	6529.8	4378.2	3089.8	2214.1	1965.3	1765.2	1599.8	1533.1	1537.2
37.5°	12823.3	11199.9	7290.1	4179.4	2683.9	1940.3	1660.9	1467.7	1335.7	1302.3	1344.0
40°	13947.7	12235.3	7900.2	3969.6	2257.2	1709.6	1353.8	1248.1	1163.4	1153.6	1191.1
42.5°	15011.0	13170.7	8413.1	3727.7	1859.7	1412.1	1124.4	1149.5	1136.9	1135.6	1141.1
45°	15977.0	14038.0	8699.4	3367.7	1578.9	1156.4	1061.9	1156.4	1177.3	1174.5	1159.2
47.5°	16856.8	14830.3	8894.0	2846.5	1337.1	1084.1	1096.6	1160.6	1199.5	1206.4	1189.8
50°	17769.9	15604.5	8924.6	2215.5	1241.2	1141.1	1127.2	1118.9	1189.8	1188.4	1189.8
52.5°	18585.8	16268.8	8591.0	1722.1	1291.2	1200.9	1152.2	1103.6	1143.9	1145.3	1117.5
55°	19200.2	16813.7	8019.8	1509.4	1332.9	1250.9	1224.5	1127.2	1102.2	1085.5	1095.2
57.5°	19834.0	17300.2	7244.2	1413.5	1345.4	1262.0	1288.4	1132.8	1095.2	1018.8	1013.2
60°	20444.1	17693.5	6325.5	1349.6	1330.1	1256.5	1248.1	1175.9	1103.6	989.6	950.7
62.5°	20815.2	17779.7	5385.9	1287.1	1301.0	1248.1	1203.7	1207.8	1157.8	1095.2	1086.9
63°	20858.3	17750.5	5206.6	1271.8	1294.0	1246.7	1203.7	1210.6	1157.8	1120.3	1121.7
65°	20804.1	17411.4	4503.3	1206.4	1269.0	1224.5	1185.6	1150.8	1064.7	1088.3	1116.1
67.5°	20195.3	16302.2	3462.3	1100.8	1213.4	1188.4	1131.4	1045.2	967.4	952.1	968.8
70°	18551.1	14485.6	2453.2	938.2	1113.3	1142.5	1117.5	988.2	910.4	896.5	929.8
72.5°	16268.8	12577.3	1684.6	750.5	932.6	1063.3	1056.3	952.1	882.6	842.3	859.0
75°	13694.7	10144.9	1177.3	632.4	718.6	957.6	1002.1	921.5	868.7	831.2	825.6
77.5°	10543.8	7662.6	925.7	540.7	593.5	775.6	921.5	914.6	979.9	1156.4	1117.5
80°	7183.0	5095.4	667.2	405.9	472.6	543.5	793.6	943.7	1239.8	728.3	714.4
82.5°	4175.3	2993.9	417.0	269.6	282.2	369.7	497.6	996.6	829.8	328.0	414.2
85°	2016.8	1303.7	208.5	186.2	129.3	139.0	230.7	928.5	587.9	145.9	29.2
87.5°	643.5	316.9	22.2	16.7	19.5	27.8	109.8	567.1	346.1	125.1	18.1
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)