

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: P198723

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-SL4-600-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6621.6 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

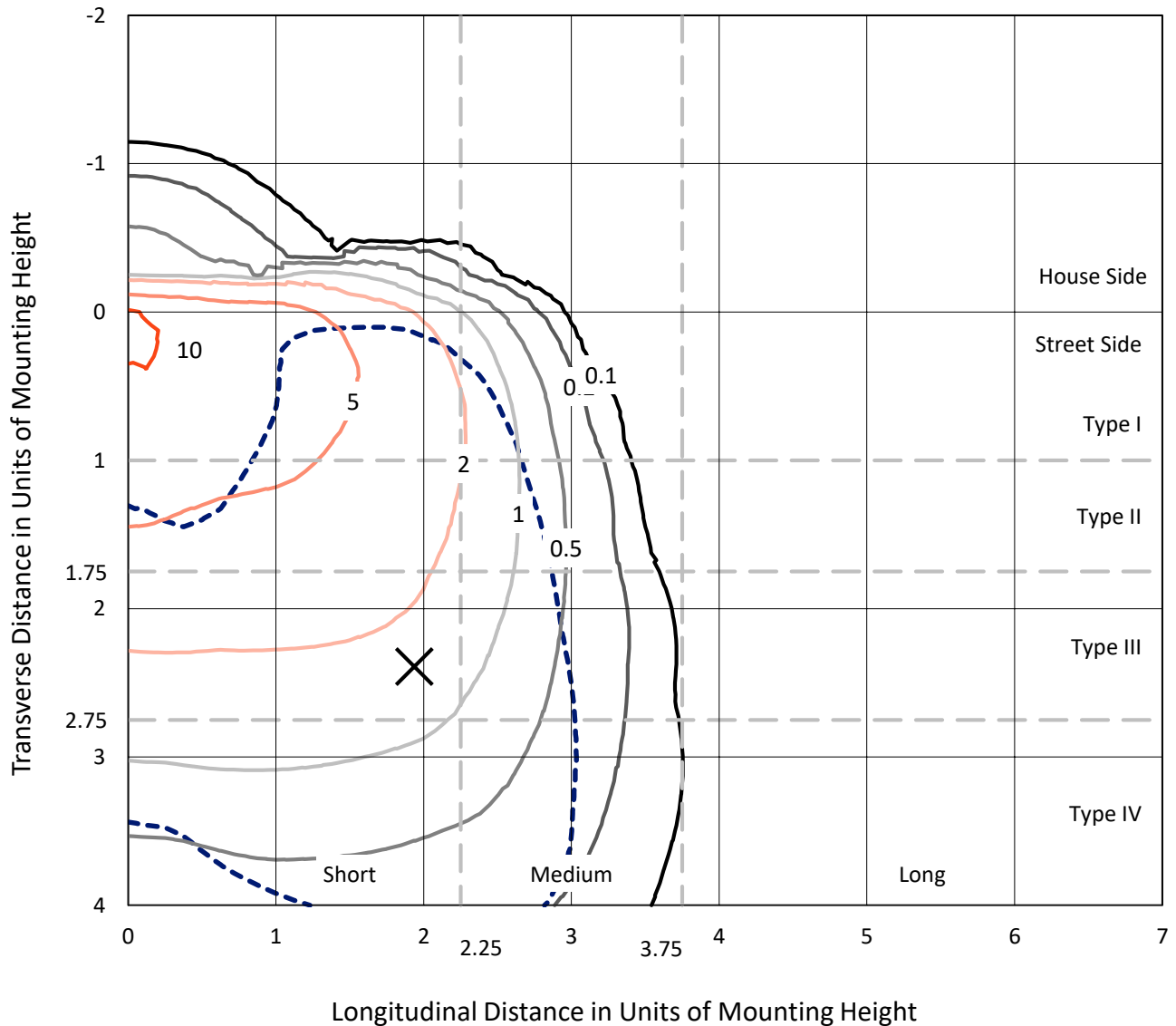
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

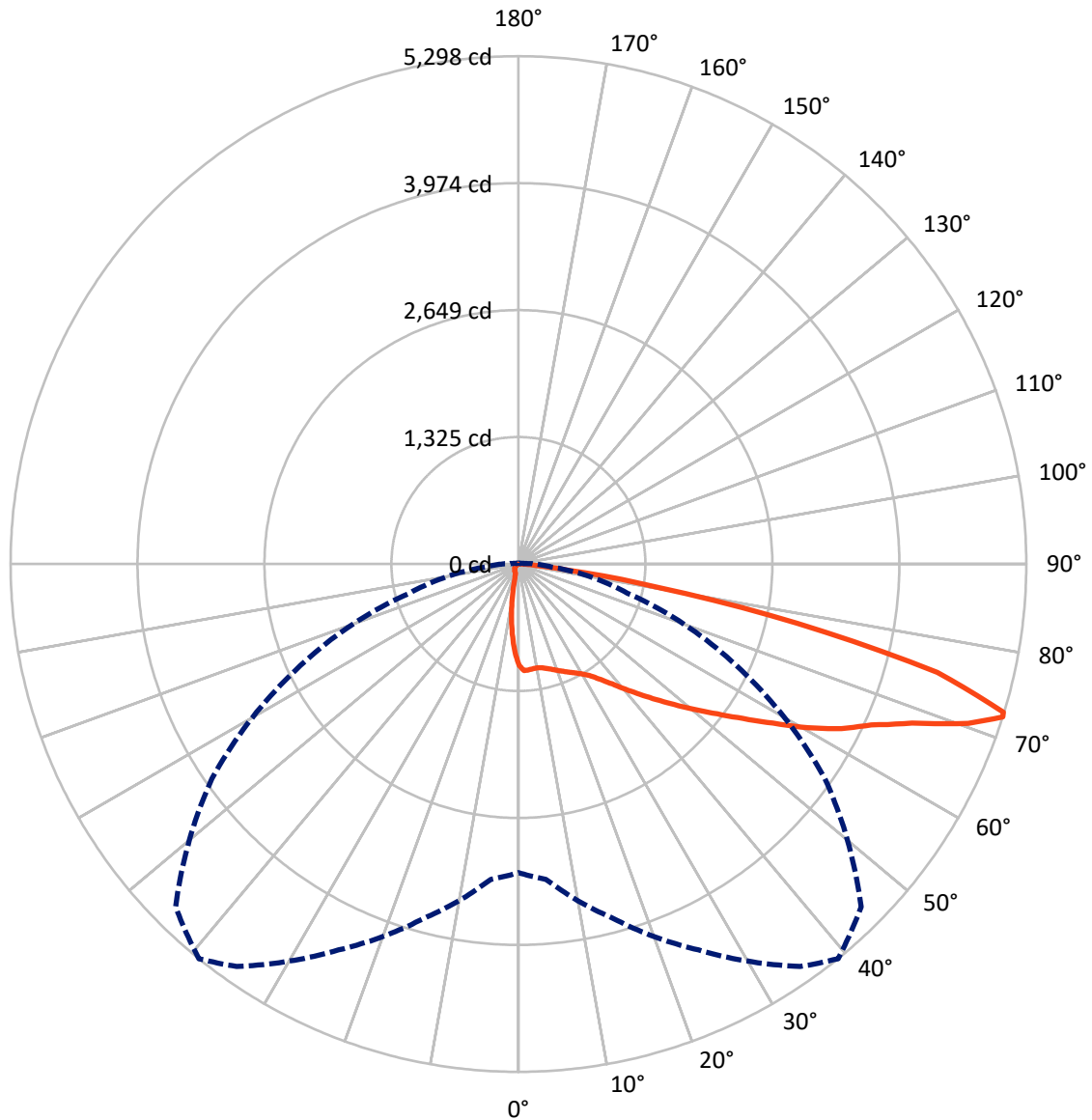


Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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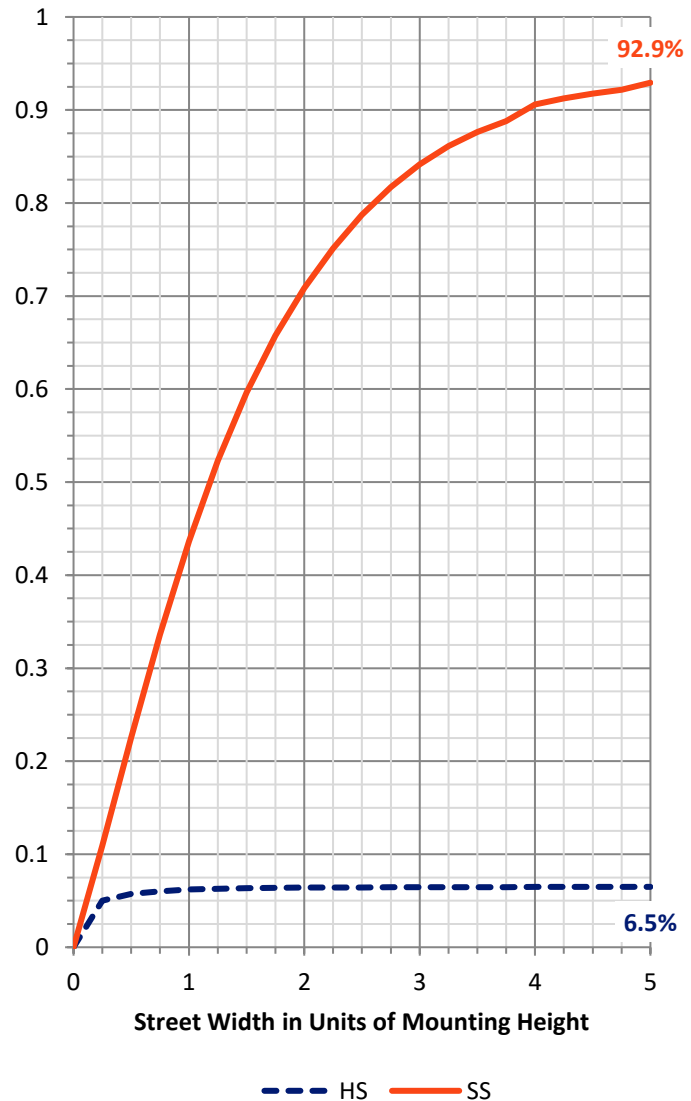
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	434.0	0.0	434.0
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	6187.6	0.0	6187.6
	% Fixture	93.4	0.0	93.4
Total	Lumens	6621.6	0.0	6621.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	1.3
10°-20°	208.7	3.2
20°-30°	346.6	5.2
30°-40°	552.4	8.3
40°-50°	911.8	13.8
50°-60°	1377.1	20.8
60°-70°	1793.8	27.1
70°-80°	1212.1	18.3
80°-90°	132.7	2.0
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°	6621.6	100.0
0°-180°	6621.6	100.0

Coefficient of Utilization



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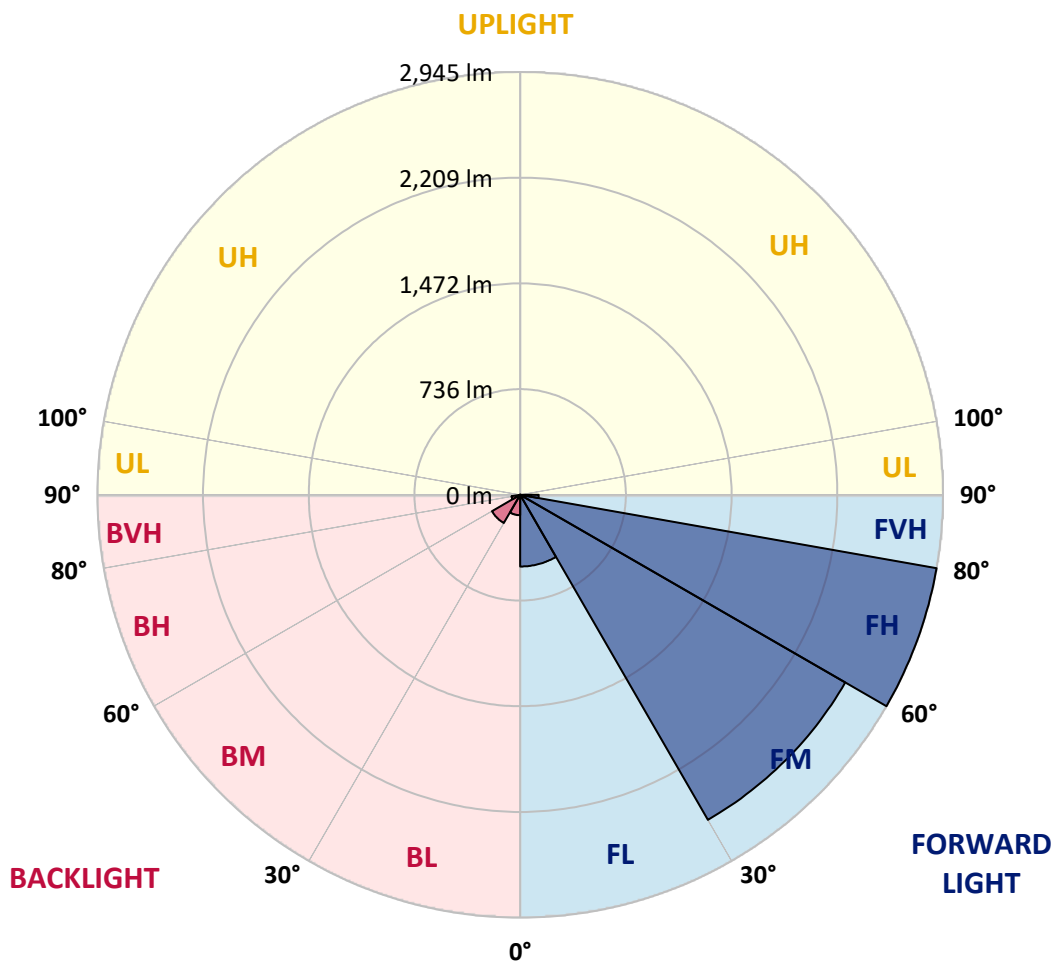
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	499.4	7.5			
FM	(30°-60°)	2614.3	39.5			
FH	(60°-80°)	2945.0	44.5			G2/5000
FVH	(80°-90°)	128.9	1.9			G2/225
BL	(0°-30°)	142.1	2.1	B1/500		
BM	(30°-60°)	227.1	3.4	B1/1000		
BH	(60°-80°)	61.0	0.9	B0/110		G0/110
BVH	(80°-90°)	3.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1059.8	1059.8	1059.8	1059.8	1059.8	1059.8	1059.8	1059.8	1059.8	1059.8	1059.8
2.5°	1128.5	1130.7	1128.0	1123.3	1116.6	1112.4	1106.6	1094.1	1078.6	1065.0	1049.4
5°	1137.4	1138.4	1135.3	1126.5	1116.0	1110.3	1103.0	1089.5	1073.4	1054.7	1026.5
7.5°	1140.0	1139.5	1135.8	1124.9	1108.8	1101.5	1088.9	1072.4	1055.7	1038.5	1006.7
10°	1139.0	1139.0	1136.3	1126.0	1107.8	1100.9	1086.9	1069.2	1048.4	1031.2	997.4
12.5°	1135.3	1137.4	1135.8	1130.1	1116.6	1111.3	1098.9	1081.2	1061.4	1043.7	1007.8
15°	1140.0	1143.1	1146.2	1144.2	1136.3	1131.7	1120.2	1102.0	1085.9	1067.1	1028.6
17.5°	1158.7	1165.4	1172.8	1173.3	1164.9	1156.7	1143.7	1124.9	1109.3	1092.1	1050.5
20°	1194.1	1199.3	1212.9	1215.5	1198.8	1186.8	1168.6	1146.7	1131.2	1116.6	1070.7
22.5°	1246.7	1252.4	1263.3	1259.7	1231.6	1217.5	1194.6	1169.6	1153.5	1145.2	1094.1
25°	1326.4	1327.9	1330.6	1314.4	1268.0	1252.4	1224.3	1196.2	1183.1	1182.1	1127.5
27.5°	1420.1	1422.1	1410.6	1374.7	1308.7	1288.3	1256.6	1231.1	1224.9	1232.7	1169.6
30°	1527.3	1527.8	1496.1	1437.8	1355.5	1333.1	1300.3	1272.2	1278.0	1297.2	1223.8
32.5°	1637.1	1631.9	1588.1	1512.1	1419.5	1392.4	1364.3	1336.3	1352.9	1391.9	1302.9
35°	1737.6	1735.4	1684.0	1595.5	1502.8	1478.9	1458.5	1428.9	1456.0	1519.5	1410.6
37.5°	1838.0	1836.5	1777.7	1685.5	1605.3	1588.1	1573.1	1550.2	1594.4	1687.6	1554.9
40°	1948.9	1946.3	1873.9	1785.5	1724.6	1715.2	1706.4	1696.5	1772.0	1901.6	1734.4
42.5°	2085.8	2074.3	1975.9	1894.3	1855.7	1858.3	1858.9	1868.7	1986.9	2156.1	1946.3
45°	2243.0	2217.6	2078.5	2010.8	2000.0	2015.5	2031.2	2072.3	2237.3	2449.1	2180.5
47.5°	2395.5	2354.4	2196.7	2136.3	2158.7	2191.0	2228.4	2308.6	2518.4	2755.7	2392.9
50°	2526.7	2484.5	2313.8	2263.8	2335.2	2383.1	2449.7	2571.0	2815.1	3014.9	2526.7
52.5°	2629.8	2596.5	2437.7	2404.3	2530.9	2596.5	2701.1	2860.4	3095.1	3185.7	2620.4
55°	2705.8	2689.1	2556.4	2561.1	2748.5	2843.2	2973.3	3153.5	3331.4	3318.5	2690.7
57.5°	2791.6	2778.6	2680.7	2745.9	3010.3	3132.6	3283.1	3427.8	3503.2	3425.1	2759.4
60°	2879.6	2883.8	2831.7	2969.7	3334.1	3469.4	3600.6	3636.5	3650.6	3533.5	2831.7
62.5°	2946.3	2964.0	2968.6	3211.2	3666.2	3781.7	3838.5	3812.9	3809.9	3678.6	2826.0
65°	3022.8	3069.2	3146.2	3476.2	3968.1	4044.1	4084.6	4121.7	4043.5	3721.9	2548.1
67.5°	3155.0	3227.9	3401.2	3801.0	4316.9	4429.3	4544.4	4505.3	4078.4	3283.1	1941.2
70°	3333.1	3422.1	3728.1	4225.2	4790.1	4978.5	5074.8	4474.6	3462.7	2268.5	1023.9
72°	3220.6	3301.3	3829.1	4441.8	5125.3	5298.1	5057.1	3903.1	2510.0	1175.9	343.0
72.5°	3111.3	3194.6	3796.8	4439.2	5158.5	5290.8	4942.0	3677.6	2221.1	915.1	236.3
75°	2158.7	2263.8	3254.9	3990.4	4658.3	4513.1	3781.2	2226.9	804.8	157.2	78.1
77.5°	1116.0	1197.3	1974.4	2819.8	3246.6	2973.3	2234.6	966.2	222.8	83.3	51.6
80°	691.8	731.9	923.4	1389.4	1686.5	1475.2	985.9	390.4	142.6	49.4	41.1
82.5°	358.1	388.8	581.4	560.6	623.1	517.9	363.9	326.9	88.0	30.7	42.1
85°	117.6	124.9	357.1	372.7	266.5	179.0	161.3	311.8	25.5	19.7	35.9
87.5°	15.7	18.2	125.4	213.4	131.1	81.2	96.8	109.9	8.9	10.9	9.9
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°	1059.8	1059.8	1059.8	1059.8	1059.8	1059.8	1059.8	1059.8	1059.8	1059.8	1059.8
2.5°	1039.0	1032.3	1010.9	989.5	965.1	942.8	925.0	913.6	918.7	901.6	904.2
5°	1009.3	992.2	945.3	894.8	840.1	789.1	748.5	718.3	712.6	686.6	687.6
7.5°	980.7	952.6	876.6	793.3	702.8	629.3	562.7	504.4	483.5	462.3	449.8
10°	965.1	926.6	818.8	697.6	570.0	462.3	368.6	295.1	264.4	242.0	231.1
12.5°	969.8	918.7	775.6	610.6	442.9	306.1	208.2	154.6	135.8	125.4	121.8
15°	985.4	920.3	736.5	525.8	322.2	185.4	122.3	104.6	103.1	102.5	102.0
17.5°	999.9	921.9	695.4	437.2	215.5	118.2	98.4	96.8	96.8	96.8	96.8
20°	1015.1	922.4	650.2	344.6	141.6	96.8	92.7	91.7	92.7	92.7	92.7
22.5°	1032.8	926.1	606.4	254.5	104.6	91.1	88.5	88.0	88.5	88.5	88.0
25°	1054.7	933.9	559.0	182.2	94.7	87.5	84.8	84.3	84.8	84.3	84.3
27.5°	1083.8	944.3	503.9	130.6	90.5	83.8	81.2	81.2	81.2	80.7	80.7
30°	1121.3	956.8	429.9	103.1	86.4	80.2	78.1	78.1	77.5	77.0	77.0
32.5°	1174.9	977.0	349.2	93.2	81.7	75.5	73.3	74.0	73.3	72.8	72.3
35°	1250.9	1008.8	269.6	88.0	77.0	70.8	68.7	68.7	68.7	67.7	67.7
37.5°	1358.6	1057.2	201.9	82.8	72.3	66.1	63.5	63.5	63.0	62.0	62.5
40°	1491.9	1118.1	146.3	78.1	67.7	60.9	58.8	57.8	56.8	55.6	55.6
42.5°	1652.2	1177.4	109.9	73.3	63.0	56.8	54.1	53.1	51.0	50.0	49.4
45°	1831.8	1240.4	91.1	67.7	57.8	52.1	50.0	47.9	45.3	43.7	43.2
47.5°	1983.3	1279.0	81.2	62.0	52.6	47.4	45.3	42.1	39.1	38.0	38.0
50°	2074.3	1262.8	72.8	56.3	47.4	42.7	40.1	35.9	33.9	32.8	32.2
52.5°	2125.4	1215.0	66.1	51.6	42.7	37.4	33.9	30.2	29.2	28.1	28.1
55°	2160.3	1145.7	58.8	46.9	38.6	32.8	28.6	26.0	25.0	24.4	23.9
57.5°	2193.5	1061.4	52.1	42.7	34.4	29.2	24.4	23.4	21.4	20.9	20.9
60°	2203.4	945.3	45.8	38.0	30.7	25.5	21.4	19.7	17.7	17.2	17.2
62.5°	2077.5	752.2	40.6	32.2	27.1	21.9	18.7	16.7	14.5	14.5	14.5
65°	1736.0	510.7	34.9	28.1	23.9	18.7	16.2	13.5	12.5	12.5	12.5
67.5°	1209.2	284.7	29.7	23.9	20.3	15.7	13.5	11.5	10.9	11.5	11.5
70°	545.0	112.9	25.0	19.7	16.7	13.0	11.5	9.9	10.9	10.9	10.9
72°	163.5	60.4	20.9	16.2	13.5	11.5	9.9	9.4	10.4	10.9	10.9
72.5°	121.3	54.1	19.7	15.7	13.5	10.9	9.4	9.4	10.4	10.9	10.9
75°	62.5	36.9	15.1	11.5	9.9	8.9	7.8	8.9	10.4	10.4	10.4
77.5°	48.9	30.2	12.5	8.9	8.3	7.8	7.3	8.3	9.4	9.4	9.4
80°	45.8	19.7	9.9	8.3	7.3	6.8	6.8	7.3	8.3	8.9	8.9
82.5°	46.3	16.2	8.9	7.8	6.8	6.2	6.2	6.8	7.8	8.3	8.3
85°	29.7	10.9	7.8	6.8	6.2	5.7	5.7	6.2	7.3	7.8	7.8
87.5°	9.9	8.3	6.8	6.2	5.2	5.2	5.2	5.2	6.2	6.8	7.3
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)