

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: P271315

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271315  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)  
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-SL3-7027-600-HSS  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5860.4 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - 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

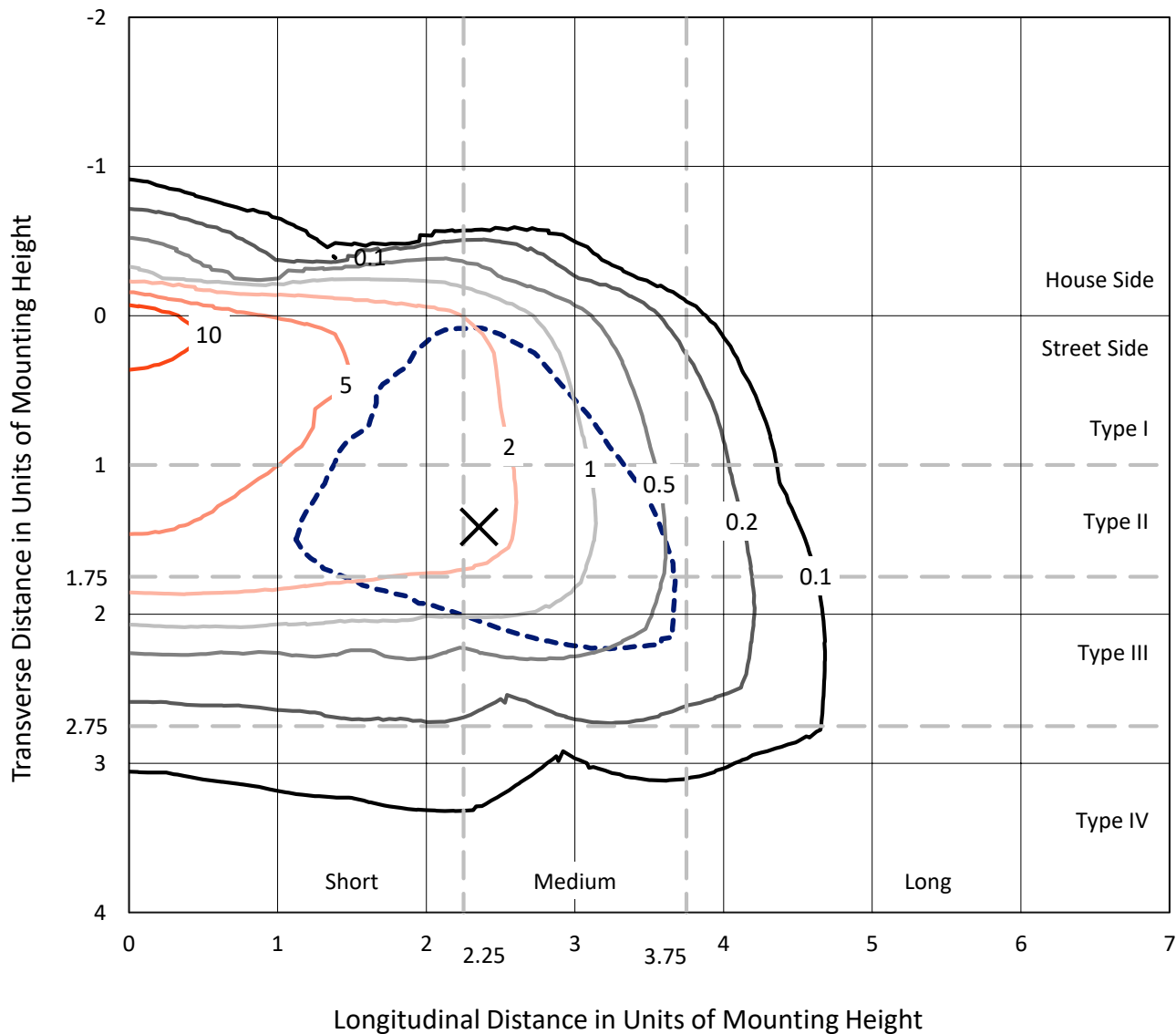


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

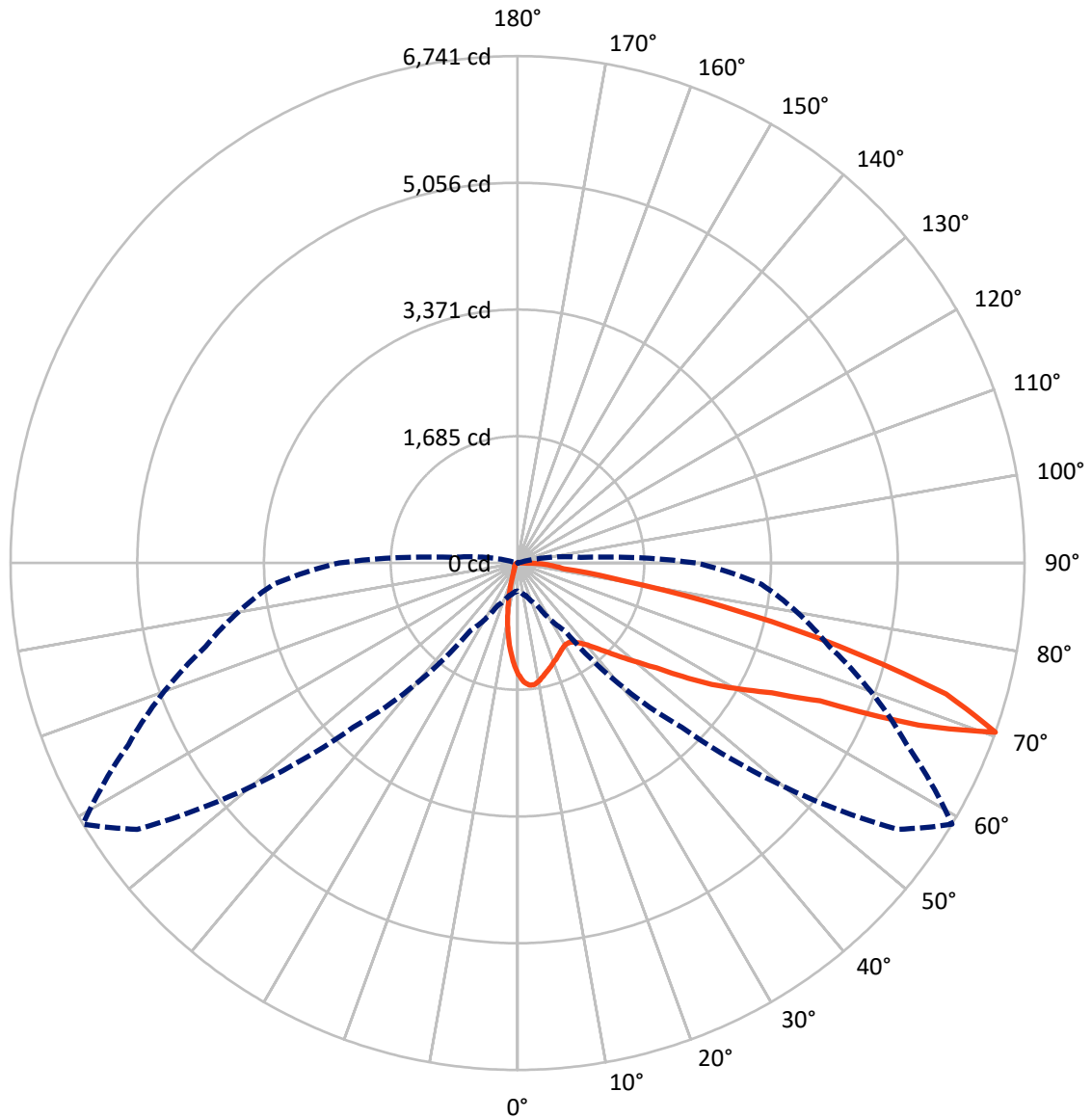


Based on 10 foot mounting height. Maximum calculated value = 15.8 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



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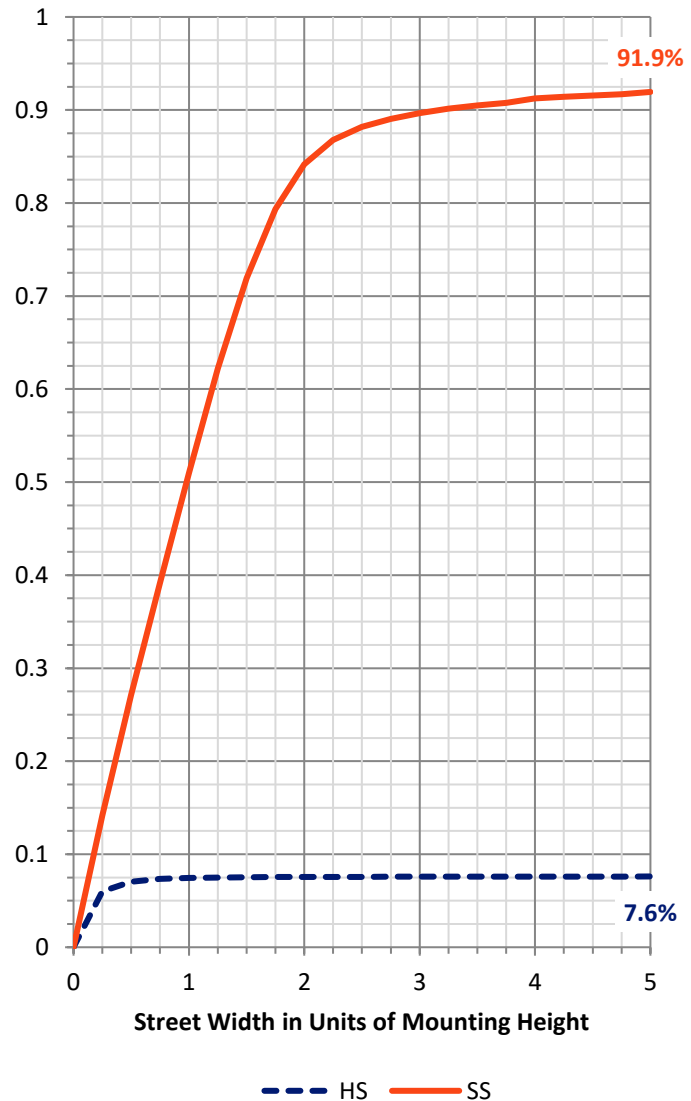
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	450.5	0.0	450.5
	% Fixture	7.7	0.0	7.7
<b>Street Side</b>	Lumens	5409.9	0.0	5409.9
	% Fixture	92.3	0.0	92.3
<b>Total</b>	Lumens	5860.4	0.0	5860.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.9	2.1
10°-20°	255.6	4.4
20°-30°	346.0	5.9
30°-40°	499.3	8.5
40°-50°	829.2	14.1
50°-60°	1268.4	21.6
60°-70°	1577.6	26.9
70°-80°	872.1	14.9
80°-90°	90.4	1.5
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°	5860.4	100.0
0°-180°	5860.4	100.0



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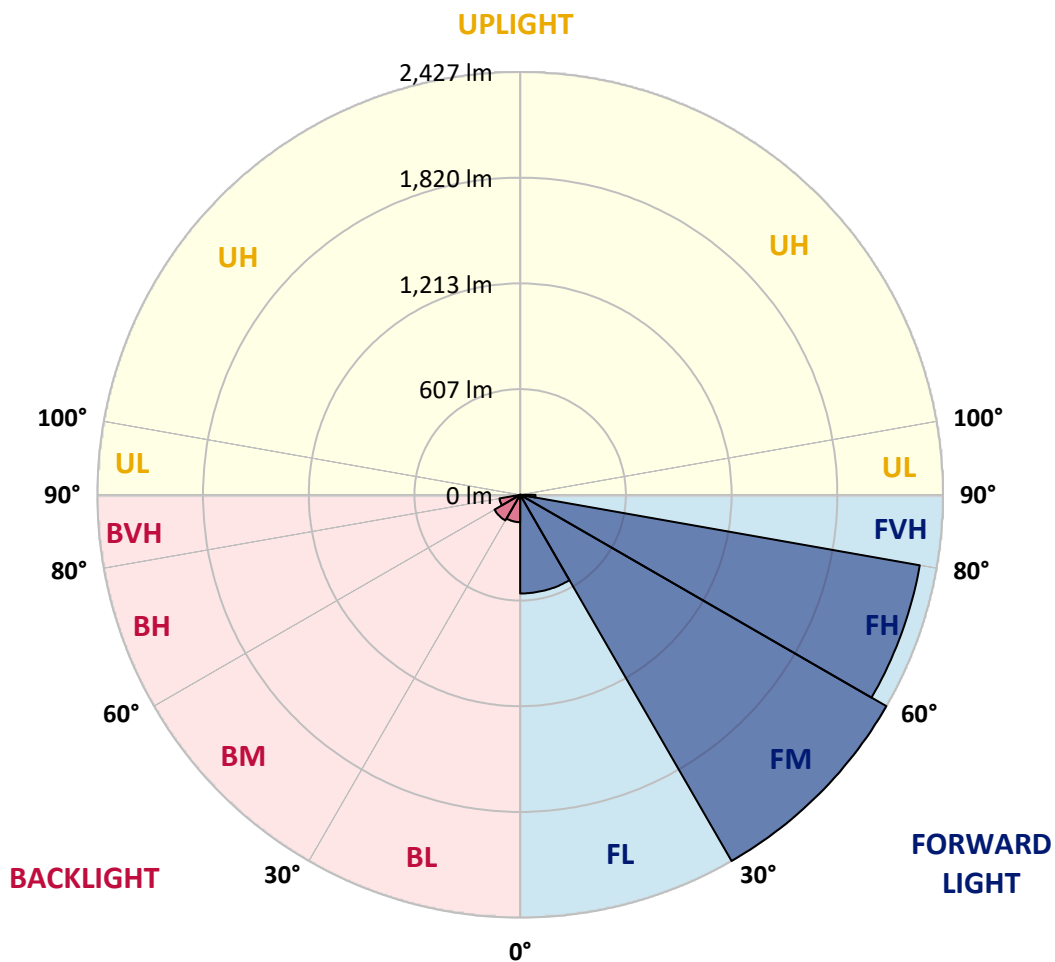
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	566.4	9.7			
FM	(30°-60°)	2426.9	41.4			
FH	(60°-80°)	2328.8	39.7			G2/5000
FVH	(80°-90°)	87.8	1.5			G1/100
BL	(0°-30°)	157.0	2.7	B1/500		
BM	(30°-60°)	170.0	2.9	B0/220		
BH	(60°-80°)	120.8	2.1	B1/500		G1/500
BVH	(80°-90°)	2.6	0.0			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9
2.5°	1675.1	1672.5	1661.3	1659.2	1646.9	1622.0	1593.4	1581.7	1558.4	1521.2	1480.0
5°	1702.9	1704.3	1705.2	1700.3	1698.5	1678.2	1646.4	1632.6	1601.3	1540.2	1465.0
7.5°	1598.7	1602.1	1613.1	1618.0	1639.2	1647.2	1640.7	1631.7	1607.0	1534.9	1429.3
10°	1488.5	1495.1	1507.0	1515.0	1541.1	1562.3	1589.3	1591.5	1586.2	1517.2	1389.0
12.5°	1393.9	1400.1	1413.4	1429.3	1455.9	1483.2	1523.4	1537.5	1555.2	1505.7	1360.4
15°	1312.6	1314.3	1327.2	1347.1	1382.0	1419.5	1467.3	1488.1	1522.5	1501.3	1338.3
17.5°	1241.4	1241.8	1250.3	1268.3	1310.7	1360.4	1416.0	1443.4	1487.2	1495.1	1318.7
20°	1194.6	1194.0	1194.6	1204.3	1241.8	1300.7	1368.3	1397.0	1453.2	1487.7	1298.9
22.5°	1178.7	1176.4	1166.2	1162.6	1186.7	1238.4	1319.3	1356.8	1422.6	1485.4	1284.2
25°	1198.1	1196.7	1175.2	1154.7	1156.9	1189.3	1269.2	1315.2	1398.8	1493.4	1280.8
27.5°	1260.9	1258.2	1225.0	1185.3	1160.0	1165.8	1232.1	1280.4	1379.7	1512.8	1285.7
30°	1343.1	1343.5	1308.1	1260.0	1200.8	1167.9	1212.3	1257.7	1367.0	1542.0	1296.3
32.5°	1434.7	1434.1	1408.9	1353.2	1277.7	1208.7	1221.1	1259.6	1368.7	1584.9	1316.6
35°	1529.2	1524.3	1515.9	1466.8	1378.4	1279.8	1261.3	1289.5	1387.3	1641.6	1351.1
37.5°	1638.4	1636.6	1645.1	1593.4	1503.1	1384.6	1332.0	1351.1	1434.1	1725.0	1406.7
40°	1812.2	1802.4	1806.4	1736.1	1643.7	1525.6	1431.1	1435.9	1508.9	1835.5	1494.7
42.5°	2143.3	2103.9	2030.1	1898.4	1798.4	1682.2	1560.5	1552.2	1614.6	1969.5	1610.5
45°	2538.9	2493.9	2307.7	2077.4	1953.2	1850.1	1720.7	1698.1	1744.5	2129.2	1760.0
47.5°	2869.1	2820.6	2573.9	2264.4	2110.6	2023.4	1897.8	1871.3	1900.2	2314.4	1939.4
50°	2982.0	2955.0	2738.4	2420.0	2269.3	2217.9	2120.3	2076.1	2083.1	2514.1	2149.0
52.5°	2930.2	2920.8	2775.9	2526.6	2416.0	2432.8	2363.9	2317.4	2309.5	2732.6	2380.7
55°	2820.9	2816.5	2745.8	2585.9	2545.5	2629.6	2705.5	2665.5	2590.3	2964.6	2572.0
57.5°	2664.9	2681.7	2732.6	2699.9	2704.6	2837.3	3023.1	3043.7	2931.4	3149.5	2714.0
60°	2248.1	2293.2	2526.2	2822.4	3049.0	3183.1	3363.0	3401.9	3220.7	3275.8	2878.0
62.5°	1661.9	1726.4	2058.3	2602.6	3238.7	3840.4	3815.2	3798.0	3496.6	3445.2	3176.4
65°	976.2	1051.7	1332.5	2033.7	2952.6	4263.0	4659.7	4420.9	3916.9	3797.1	3651.7
67.5°	486.3	486.7	613.6	1073.5	2182.2	3968.3	5892.3	5754.3	4810.9	4315.6	3839.1
70°	374.1	384.1	454.1	623.9	1103.5	3090.7	6174.7	6741.1	5709.2	4292.7	3257.3
72.5°	317.0	323.6	404.1	542.8	825.0	1696.8	5345.4	5958.5	5448.0	3626.9	2401.0
75°	228.1	233.4	357.6	492.5	759.4	841.7	3666.7	4419.1	4087.6	2551.2	1321.3
77.5°	56.7	56.1	124.7	399.7	679.5	701.1	2103.9	2833.9	2345.3	1044.6	339.5
80°	25.2	24.3	28.2	84.0	632.1	661.8	925.3	1431.1	899.7	169.3	103.9
82.5°	17.6	16.8	17.6	30.9	211.3	614.1	559.3	620.3	329.4	57.9	44.1
85°	5.7	5.3	9.7	26.1	59.3	354.1	545.5	463.3	244.9	24.8	29.6
87.5°	0.9	0.9	3.6	14.2	17.2	118.0	320.1	321.0	110.1	14.6	13.2
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°	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9
2.5°	1459.3	1433.2	1396.5	1359.9	1326.6	1292.8	1265.3	1252.4	1246.7	1238.8	1221.4
5°	1425.7	1378.4	1298.1	1218.8	1145.0	1074.4	1013.6	979.2	942.1	940.3	922.2
7.5°	1371.8	1304.6	1177.8	1054.8	942.1	834.3	741.5	681.3	640.1	614.5	596.8
10°	1311.6	1225.5	1057.5	884.7	731.2	587.1	467.7	390.0	342.7	318.8	305.1
12.5°	1263.9	1155.6	939.0	721.5	529.2	363.9	252.9	196.3	171.0	161.3	156.9
15°	1222.9	1091.5	828.1	575.6	353.3	209.1	146.3	127.7	123.7	123.7	123.3
17.5°	1181.4	1029.6	720.3	432.4	222.4	137.0	115.4	112.7	113.1	114.5	114.5
20°	1141.9	970.9	616.2	308.2	145.9	109.7	104.8	103.9	105.2	107.0	106.5
22.5°	1110.0	919.1	519.0	211.8	112.3	99.4	96.4	95.0	95.8	97.2	96.7
25°	1087.6	874.9	429.7	147.6	97.6	90.5	87.0	85.2	84.4	85.2	84.9
27.5°	1073.8	837.8	345.7	111.0	87.6	81.7	77.3	73.8	71.7	71.7	70.7
30°	1065.0	802.8	271.0	91.9	79.1	72.9	66.7	62.0	58.4	57.5	57.0
32.5°	1064.5	772.8	202.5	81.3	71.1	64.0	56.7	50.3	46.4	45.5	45.0
35°	1075.6	748.5	148.9	73.4	64.0	55.8	47.3	40.7	37.1	37.1	36.7
37.5°	1104.3	734.4	112.7	67.3	58.4	48.6	39.7	33.5	30.5	31.4	31.4
40°	1157.8	731.7	91.9	62.3	53.4	42.4	32.2	27.4	26.1	27.4	27.4
42.5°	1239.7	745.9	81.7	58.7	49.0	36.2	26.9	23.4	22.9	24.3	24.3
45°	1346.2	773.7	76.0	55.8	44.1	30.1	22.5	20.3	19.9	21.6	21.6
47.5°	1475.2	811.2	70.7	52.2	39.3	24.8	19.0	17.2	17.2	19.0	19.5
50°	1628.2	862.1	65.4	48.6	35.4	20.8	15.9	14.6	15.0	16.8	17.2
52.5°	1804.2	924.4	60.5	45.5	30.9	16.8	13.2	12.3	12.8	14.6	15.0
55°	1955.8	978.9	54.8	42.4	25.2	13.7	11.0	10.6	11.0	13.2	13.2
57.5°	2088.0	1031.0	49.4	37.5	19.9	11.0	8.9	8.9	9.7	11.9	12.3
60°	2263.5	1113.2	45.0	31.8	15.0	8.4	7.0	7.5	8.9	10.6	11.0
62.5°	2574.4	1252.9	39.3	26.5	11.0	6.6	5.7	6.2	7.9	10.2	10.6
65°	2963.4	1385.0	32.7	22.1	8.4	4.9	4.4	5.7	7.9	10.2	10.6
67.5°	2923.5	1204.6	25.6	17.6	6.2	4.0	3.6	5.3	7.5	10.2	10.6
70°	2370.9	844.3	19.0	11.9	4.9	3.6	3.6	5.3	7.5	9.7	10.2
72.5°	1644.5	470.0	14.6	7.9	4.4	3.6	3.1	4.9	7.0	9.7	10.2
75°	782.6	144.1	11.5	5.7	4.0	3.1	2.6	4.9	7.0	9.7	10.2
77.5°	150.2	36.7	9.3	4.9	3.6	3.1	2.6	4.4	7.0	9.3	9.7
80°	50.8	16.3	7.5	4.4	3.6	3.1	2.6	4.4	6.6	8.9	9.3
82.5°	27.8	9.3	6.6	4.0	3.6	2.6	2.2	4.0	6.2	8.9	9.3
85°	21.6	6.6	5.3	4.0	3.6	2.6	2.2	4.0	6.2	8.4	8.9
87.5°	11.0	4.9	4.4	4.0	3.6	2.6	2.2	3.6	5.7	7.9	8.9
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)