

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: P509536

Luminaire Tested: **VERD-G-CA2-120-722-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-120-722-U-T4-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1120mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12869 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

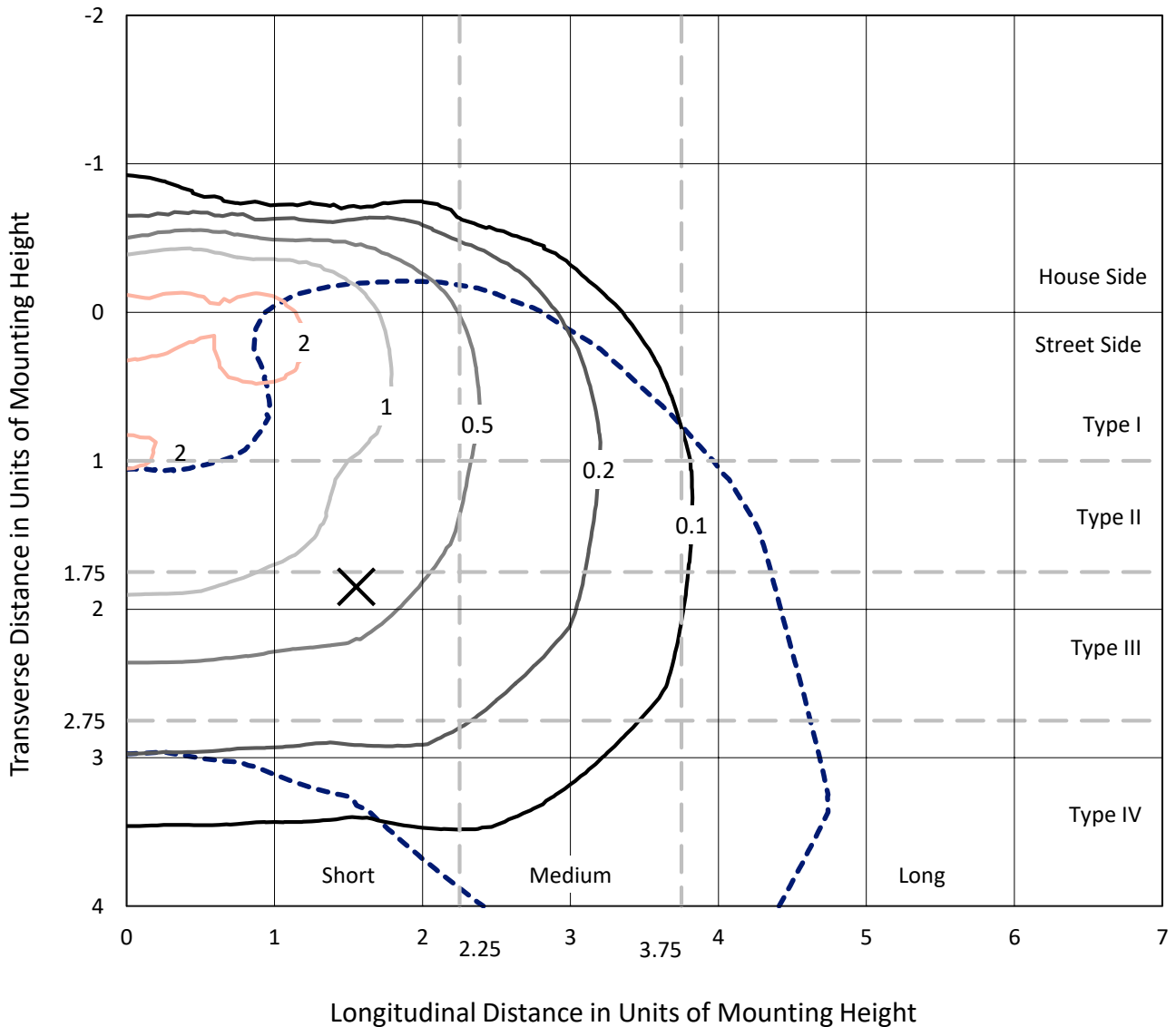
Input Watts (W): 124.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

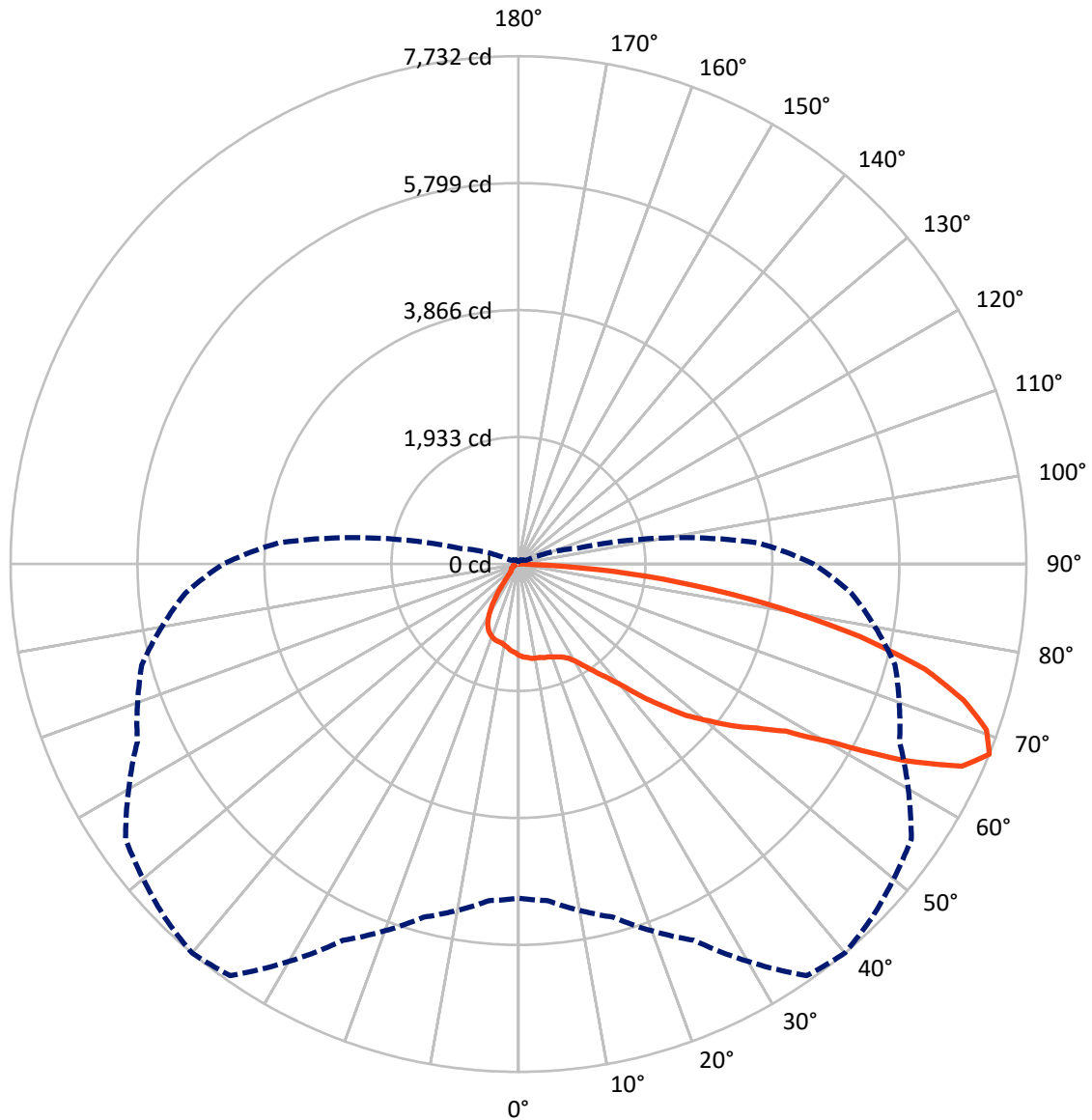
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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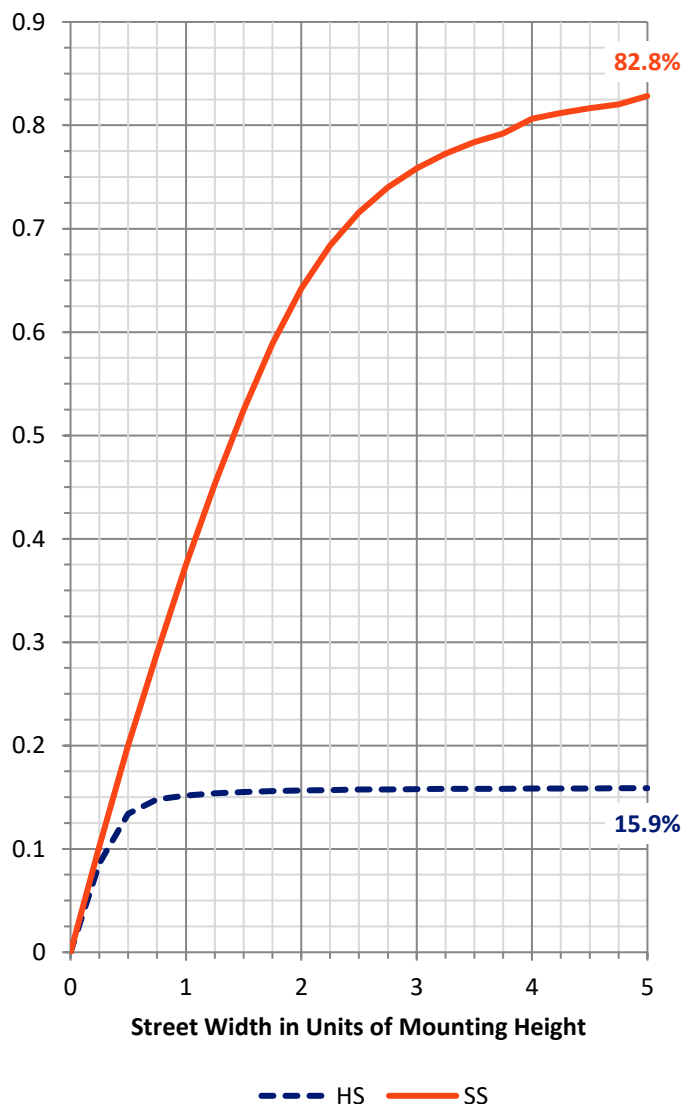
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2065.3	0.0	2065.3
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	10803.7	0.0	10803.7
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	12869.0	0.0	12869.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.8	1.0
10°-20°	391.0	3.0
20°-30°	650.5	5.1
30°-40°	1022.9	7.9
40°-50°	1771.1	13.8
50°-60°	2617.9	20.3
60°-70°	3403.5	26.4
70°-80°	2436.1	18.9
80°-90°	444.2	3.5
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°	12869.0	100.0
0°-180°	12869.0	100.0

**Coefficient of Utilization**



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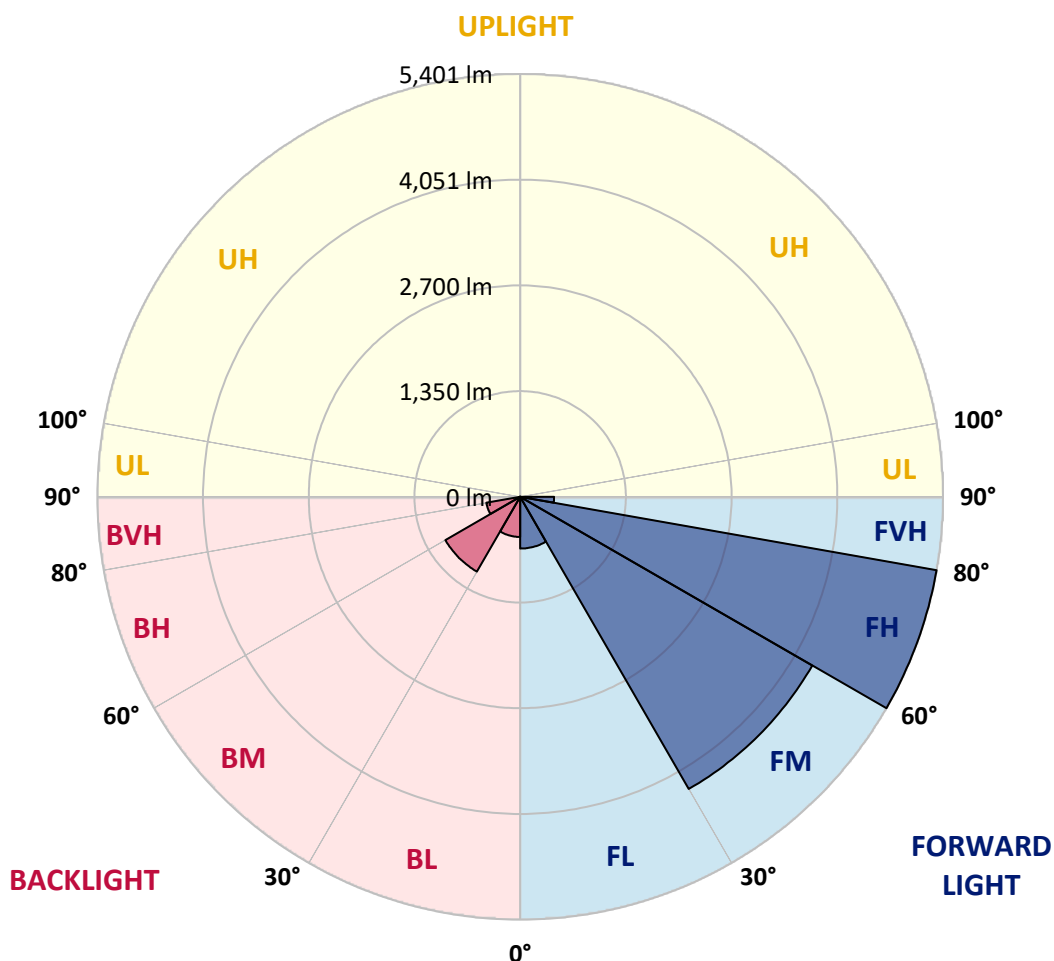
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	661.0	5.1			
FM	(30°-60°)	4308.6	33.5			
FH	(60°-80°)	5400.8	42.0			G3/7500
FVH	(80°-90°)	433.3	3.4			G3/500
BL	(0°-30°)	512.3	4.0	B2/1000		
BM	(30°-60°)	1103.2	8.6	B2/2500		
BH	(60°-80°)	438.8	3.4	B1/500		G1/500
BVH	(80°-90°)	10.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0
2.5°	1449.4	1448.4	1438.9	1434.1	1420.7	1416.0	1416.9	1411.2	1397.8	1399.7	1386.3
5°	1451.3	1458.0	1443.7	1439.8	1435.1	1429.3	1436.0	1428.4	1416.9	1420.7	1406.4
7.5°	1459.9	1462.8	1456.1	1452.3	1440.8	1452.3	1451.3	1444.6	1437.0	1430.3	1424.6
10°	1462.8	1459.9	1446.5	1443.7	1443.7	1455.1	1459.9	1462.8	1462.8	1452.3	1448.4
12.5°	1448.4	1446.5	1433.2	1438.9	1451.3	1459.0	1474.2	1483.8	1499.1	1487.6	1481.9
15°	1426.5	1431.2	1437.0	1438.9	1461.8	1479.0	1493.3	1510.5	1536.3	1536.3	1534.4
17.5°	1433.2	1442.7	1449.4	1459.0	1480.9	1486.7	1506.7	1534.4	1577.4	1580.3	1585.1
20°	1466.6	1466.6	1468.5	1475.2	1494.3	1511.5	1528.7	1564.0	1613.7	1630.0	1634.8
22.5°	1502.9	1501.0	1509.6	1508.6	1523.9	1535.4	1557.4	1587.9	1650.0	1680.6	1693.0
25°	1532.5	1538.3	1545.9	1536.3	1566.0	1570.7	1587.9	1625.2	1691.1	1745.6	1772.3
27.5°	1583.2	1587.0	1585.1	1589.8	1619.5	1622.3	1638.6	1692.1	1753.2	1827.7	1886.0
30°	1670.1	1656.7	1658.6	1669.1	1712.1	1717.9	1735.1	1786.7	1835.4	1933.8	2025.5
32.5°	1789.5	1789.5	1768.5	1788.6	1838.3	1853.5	1879.3	1956.7	2004.5	2057.1	2208.0
35°	2017.9	2017.9	2002.6	1950.0	1974.9	2013.1	2060.9	2167.9	2315.0	2487.0	2647.5
37.5°	2396.2	2390.5	2330.3	2235.7	2182.2	2195.6	2242.4	2415.3	2654.2	3073.6	3196.9
40°	2848.2	2831.9	2719.2	2587.3	2450.7	2427.8	2449.7	2666.6	3006.8	3628.7	3675.6
42.5°	3249.4	3248.5	3083.2	2971.4	2796.6	2758.3	2732.5	2920.8	3360.3	4031.9	4048.2
45°	3632.6	3623.0	3462.5	3341.2	3181.6	3084.1	3077.5	3209.3	3731.9	4395.0	4326.2
47.5°	3973.7	3988.0	3808.4	3691.8	3515.1	3448.2	3394.7	3507.4	4074.0	4704.6	4562.2
50°	4366.3	4392.1	4123.7	3995.6	3817.0	3751.0	3780.7	3863.8	4415.1	4957.8	4772.4
52.5°	4862.2	4780.0	4513.5	4293.7	4127.5	4095.0	4101.7	4217.3	4809.7	5165.1	4918.6
55°	5446.0	5324.6	5057.1	4714.1	4442.8	4412.2	4409.3	4526.9	5174.6	5359.0	5031.3
57.5°	5665.7	5728.8	5623.7	5370.5	4890.9	4801.1	4731.3	4840.2	5502.4	5573.1	5149.8
60°	6173.1	6240.9	6163.5	6001.1	5838.7	5526.2	5220.5	5210.0	5808.1	5777.5	5199.5
62.5°	6229.4	6207.5	6551.4	6608.8	6705.3	6583.9	6357.5	5700.1	6084.2	5881.7	5238.7
65°	5914.2	5917.0	6378.5	6693.8	7360.7	7422.8	7282.3	6479.8	6291.5	5922.7	5210.9
67.5°	5088.7	5145.0	5565.4	6321.2	7651.1	7732.3	7613.9	7302.4	6403.3	5937.1	5090.6
70°	4373.0	4374.9	4772.4	5694.4	7498.3	7559.4	7505.0	7355.9	6360.3	5823.4	4763.8
72.5°	3441.5	3431.0	3779.7	4711.3	6958.4	7088.4	7058.8	7161.0	6202.7	5412.5	4053.0
75°	2485.1	2506.1	2859.6	3628.7	5985.8	6389.0	6532.3	6843.8	5640.9	4596.6	2971.4
77.5°	1739.8	1760.9	2100.0	2756.4	4830.7	5317.0	5547.3	5820.5	4571.8	3407.1	1523.0
80°	1137.9	1157.0	1448.4	2070.4	3601.0	4015.7	4188.6	4025.3	2684.8	1431.2	167.2
82.5°	661.2	698.4	920.1	1420.7	2523.3	2720.1	2729.7	2118.2	1003.2	128.0	78.3
85°	322.0	345.9	550.3	842.7	1380.6	1451.3	1346.2	788.2	234.1	61.1	44.9
87.5°	47.8	63.1	216.9	318.2	234.1	192.0	115.6	26.8	15.3	7.6	5.7
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°	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0
2.5°	1378.7	1377.7	1380.6	1368.2	1369.1	1353.9	1348.1	1345.3	1358.6	1356.7	1366.3
5°	1395.9	1386.3	1385.4	1354.8	1351.9	1332.8	1321.4	1304.2	1317.5	1314.7	1314.7
7.5°	1406.4	1396.8	1391.1	1354.8	1330.0	1296.5	1277.4	1264.0	1263.1	1260.2	1261.2
10°	1423.6	1418.8	1388.2	1348.1	1314.7	1271.7	1235.4	1214.4	1204.8	1205.8	1199.1
12.5°	1461.8	1452.3	1411.2	1363.4	1309.9	1250.7	1203.8	1166.6	1147.5	1143.7	1133.1
15°	1516.3	1505.8	1454.2	1399.7	1322.3	1252.6	1182.8	1116.9	1084.4	1071.0	1061.5
17.5°	1580.3	1564.0	1504.8	1442.7	1348.1	1250.7	1162.8	1073.9	1011.8	976.5	973.6
20°	1630.9	1623.3	1555.5	1488.6	1364.4	1238.2	1129.3	1011.8	919.1	854.2	840.8
22.5°	1697.8	1698.8	1623.3	1523.0	1377.7	1217.2	1076.8	924.9	798.7	711.8	696.5
25°	1794.3	1780.0	1694.9	1550.7	1380.6	1193.3	1005.1	815.9	651.6	554.2	537.0
27.5°	1909.9	1888.9	1753.2	1565.0	1368.2	1145.6	909.6	673.6	481.5	397.5	384.1
30°	2032.2	1982.5	1801.0	1570.7	1330.0	1068.2	773.9	492.0	341.1	281.9	276.1
32.5°	2188.9	2116.3	1842.1	1551.6	1271.7	950.7	600.0	337.3	236.0	204.5	206.4
35°	2509.9	2332.2	1906.1	1530.6	1189.5	803.5	419.4	223.6	182.5	178.7	179.6
37.5°	2995.3	2713.4	2018.8	1500.0	1067.2	614.3	269.4	172.9	173.9	173.9	173.9
40°	3464.4	3130.0	2191.8	1439.8	917.2	429.9	177.7	163.4	168.2	167.2	168.2
42.5°	3798.8	3439.6	2373.3	1366.3	744.3	272.3	159.6	153.8	156.7	155.7	158.6
45°	4070.2	3705.2	2538.6	1262.1	557.0	177.7	156.7	146.2	143.3	142.4	145.2
47.5°	4270.8	3880.0	2657.1	1132.2	371.7	152.9	150.0	134.7	130.9	130.9	131.9
50°	4465.7	4048.2	2692.4	984.1	229.3	149.0	141.4	125.2	119.4	117.5	119.4
52.5°	4601.4	4105.5	2700.1	816.9	153.8	145.2	130.9	113.7	107.0	106.1	107.0
55°	4717.0	4223.0	2638.0	608.6	137.6	136.6	121.3	102.2	94.6	98.4	100.3
57.5°	4745.7	4234.5	2513.8	402.2	136.6	125.2	110.8	91.7	86.0	89.8	90.8
60°	4818.3	4187.7	2359.0	247.5	133.8	111.8	98.4	81.2	77.4	78.3	80.3
62.5°	4756.2	4161.9	2094.3	172.9	123.3	102.2	91.7	74.5	67.8	66.9	66.9
65°	4693.1	4010.0	1601.3	143.3	109.9	95.5	83.1	65.9	58.3	54.5	54.5
67.5°	4492.5	3669.8	914.4	132.8	99.4	87.9	75.5	60.2	50.6	45.9	44.0
70°	3987.0	2939.9	281.9	121.3	100.3	82.2	69.7	52.5	44.0	37.3	36.3
72.5°	3122.4	1838.3	131.9	107.0	103.2	76.4	65.0	48.7	39.2	31.5	30.6
75°	1837.3	440.5	108.0	79.3	87.9	81.2	64.0	46.8	34.4	25.8	24.8
77.5°	399.4	107.0	96.5	53.5	65.9	78.3	61.1	41.1	30.6	20.1	19.1
80°	96.5	84.1	87.9	41.1	44.0	54.5	49.7	35.4	27.7	16.2	15.3
82.5°	65.0	63.1	77.4	25.8	22.0	20.1	21.0	22.0	22.9	12.4	11.5
85°	43.0	54.5	41.1	14.3	12.4	10.5	10.5	9.6	13.4	7.6	7.6
87.5°	6.7	5.7	6.7	5.7	5.7	4.8	3.8	3.8	2.9	3.8	3.8
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)