

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: P509144

Luminaire Tested: **VERD-CA2-110-760-U-T4-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-110-760-U-T4-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1020mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

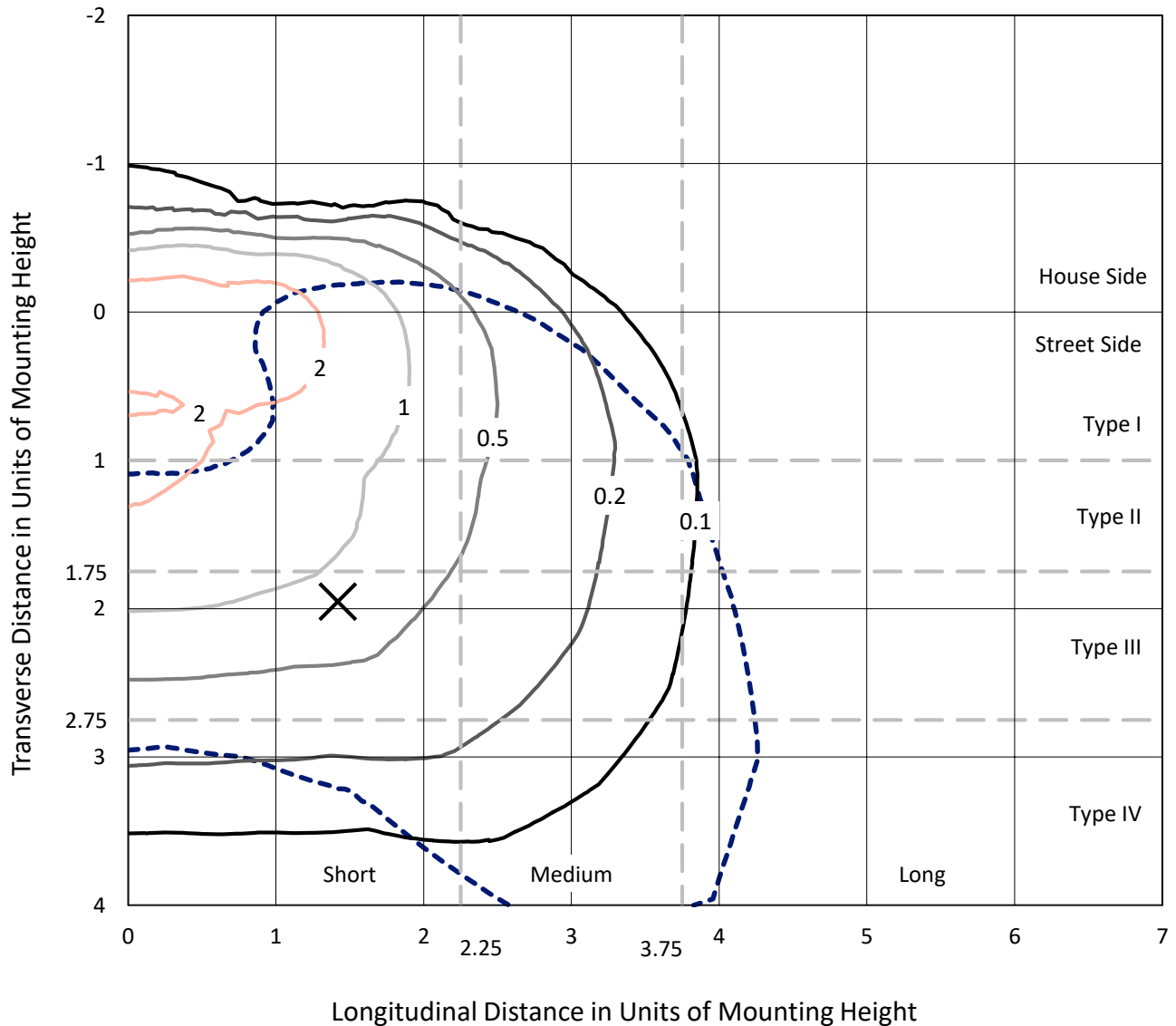
Lumens per Lamp: N/A  
Luminaire Lumens: 14524 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 113.6  
Input Voltage (V): NR  
Input Current (Ain): 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

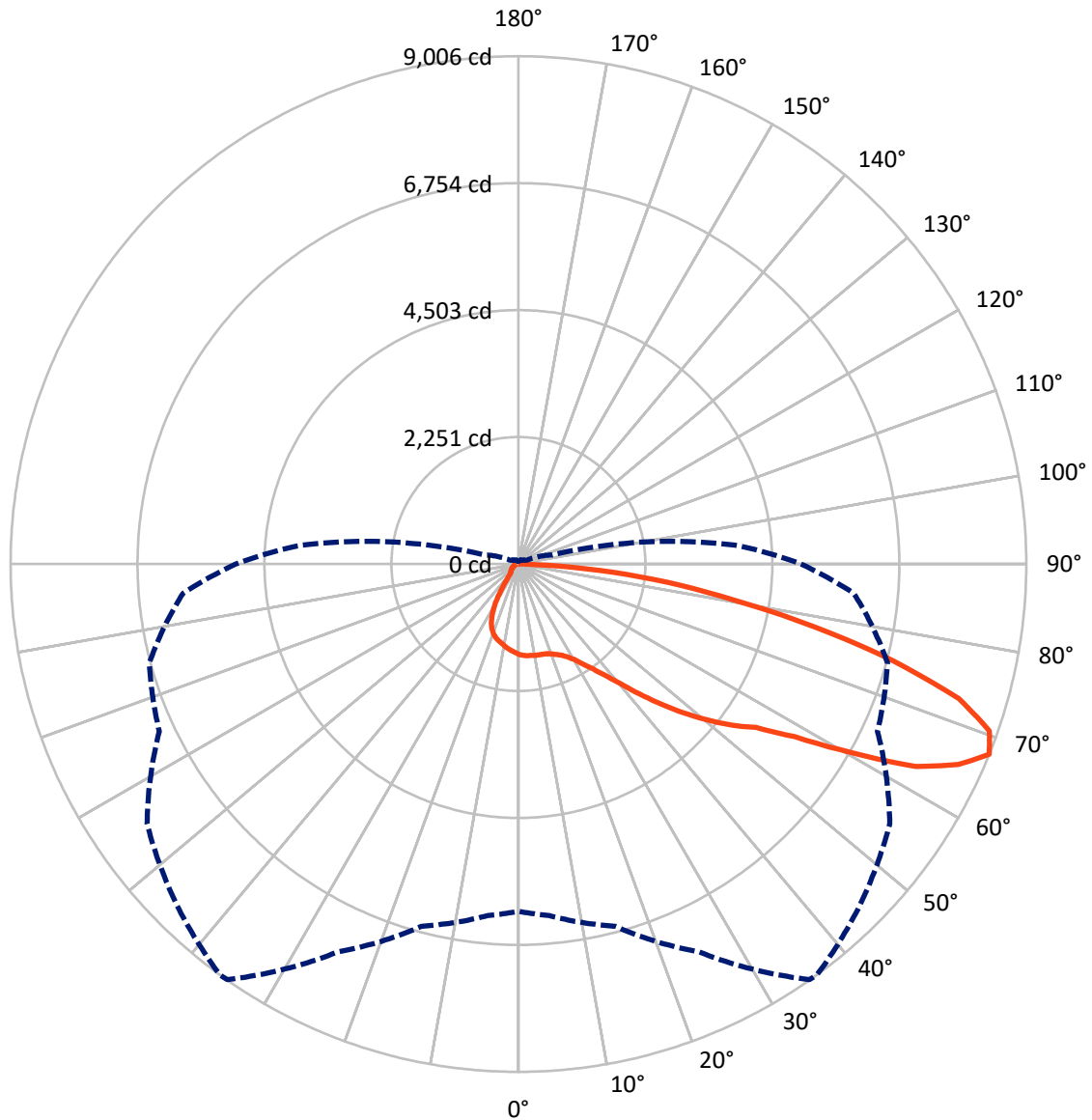
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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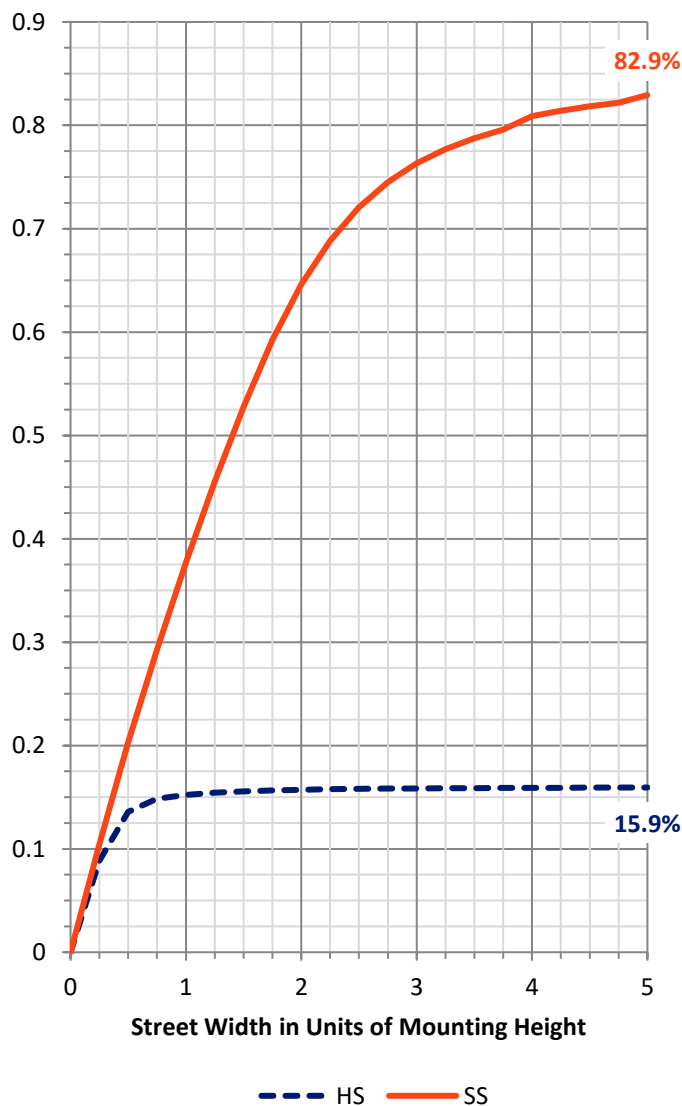
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2342.3	0.0	2342.3
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	12181.7	0.0	12181.7
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	14524.0	0.0	14524.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.5	1.0
10°-20°	448.8	3.1
20°-30°	742.2	5.1
30°-40°	1177.3	8.1
40°-50°	2032.1	14.0
50°-60°	3012.1	20.7
60°-70°	3894.3	26.8
70°-80°	2628.8	18.1
80°-90°	436.9	3.0
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°	14524.0	100.0
0°-180°	14524.0	100.0



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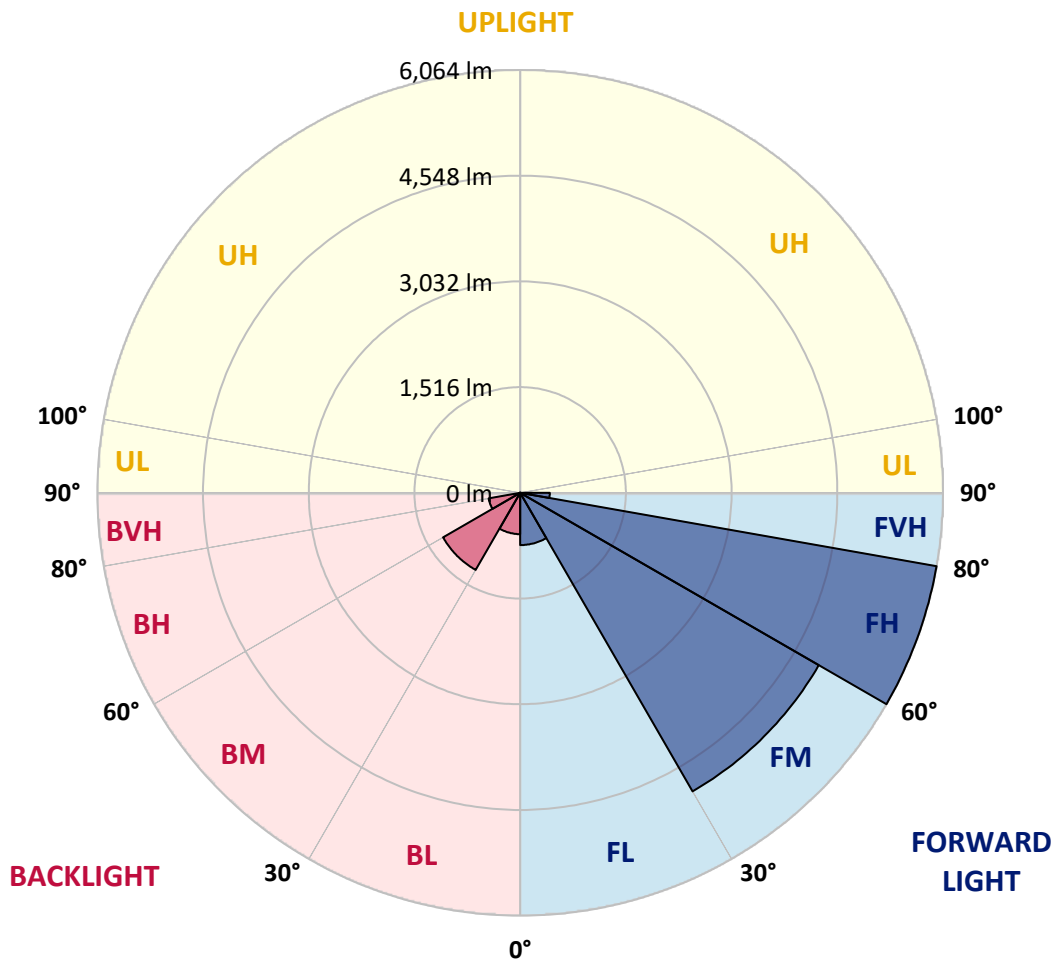
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	749.7	5.2			
FM	(30°-60°)	4943.7	34.0			
FH	(60°-80°)	6063.8	41.8			G3/7500
FVH	(80°-90°)	424.5	2.9			G3/500
BL	(0°-30°)	592.8	4.1	B2/1000		
BM	(30°-60°)	1277.9	8.8	B2/2500		
BH	(60°-80°)	459.2	3.2	B1/500		G1/500
BVH	(80°-90°)	12.4	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°	36°	45°	55°	65°	75°	85°
0°	1605.2	1605.2	1605.2	1605.2	1605.2	1605.2	1605.2	1605.2	1605.2	1605.2	1605.2
2.5°	1612.1	1627.8	1626.0	1624.3	1624.3	1622.5	1612.1	1601.7	1606.9	1605.2	1603.4
5°	1619.1	1634.7	1633.0	1631.2	1631.2	1633.0	1617.3	1605.2	1608.6	1612.1	1610.4
7.5°	1622.5	1636.4	1633.0	1631.2	1629.5	1634.7	1622.5	1624.3	1627.8	1627.8	1627.8
10°	1627.8	1638.2	1638.2	1639.9	1641.7	1646.9	1641.7	1646.9	1660.8	1657.3	1666.0
12.5°	1613.9	1626.0	1631.2	1639.9	1648.6	1652.1	1657.3	1671.2	1688.6	1697.2	1705.9
15°	1608.6	1620.8	1629.5	1639.9	1653.8	1657.3	1671.2	1695.5	1716.4	1733.7	1752.8
17.5°	1626.0	1639.9	1652.1	1659.0	1666.0	1671.2	1685.1	1716.4	1752.8	1784.1	1811.9
20°	1659.0	1672.9	1686.8	1693.8	1699.0	1702.5	1712.9	1742.4	1789.3	1838.0	1877.9
22.5°	1697.2	1711.1	1726.8	1732.0	1744.1	1744.1	1745.9	1775.4	1832.7	1898.8	1947.4
25°	1738.9	1747.6	1761.5	1770.2	1787.6	1791.1	1796.3	1822.3	1893.5	1968.2	2044.7
27.5°	1787.6	1804.9	1818.8	1829.3	1864.0	1865.8	1862.3	1895.3	1964.8	2056.8	2164.6
30°	1876.2	1895.3	1909.2	1926.6	1971.7	1970.0	1992.6	2027.3	2067.3	2168.0	2312.2
32.5°	2016.9	2018.6	2025.6	2048.2	2112.4	2119.4	2162.8	2225.4	2305.3	2369.5	2522.4
35°	2274.0	2265.3	2244.5	2241.0	2284.4	2287.9	2373.0	2505.0	2678.8	2892.4	3128.7
37.5°	2574.5	2597.1	2572.8	2498.1	2505.0	2506.8	2607.5	2776.0	3099.2	3634.2	3858.3
40°	3102.6	3114.8	2963.7	2845.5	2803.8	2784.7	2836.8	3092.2	3505.7	4202.3	4360.4
42.5°	3568.2	3568.2	3427.5	3245.1	3139.1	3153.0	3137.4	3391.0	3922.6	4695.6	4753.0
45°	4033.8	4018.1	3889.6	3736.7	3550.8	3538.7	3498.7	3693.3	4306.5	5050.0	5051.8
47.5°	4468.1	4504.6	4311.7	4143.2	3953.9	3945.2	3874.0	4025.1	4674.8	5361.0	5314.1
50°	4925.0	4975.3	4733.9	4544.5	4339.5	4351.7	4292.6	4398.6	5041.4	5651.1	5566.0
52.5°	5574.7	5480.9	5192.5	4930.2	4718.2	4753.0	4692.2	4754.7	5421.8	5882.2	5705.0
55°	6271.3	6104.5	5864.8	5425.3	5117.8	5114.3	5069.1	5143.8	5805.7	6146.2	5863.0
57.5°	6644.8	6695.2	6639.6	6283.4	5786.6	5777.9	5506.9	5515.6	6158.4	6372.0	6083.7
60°	7070.4	7132.9	7254.5	7032.2	6783.8	6790.7	6114.9	5913.4	6530.1	6552.7	6101.0
62.5°	7296.2	7303.2	7582.9	7661.0	7862.6	7907.7	7395.3	6399.8	6776.8	6691.7	6130.6
65°	6896.7	6908.8	7447.4	7841.7	8514.0	8574.8	8354.2	7341.4	6961.0	6764.7	6102.8
67.5°	6158.4	6257.4	6650.0	7591.6	8997.0	9005.6	8560.9	8038.0	7025.2	6775.1	5969.0
70°	5161.2	5126.5	5623.3	6754.2	8922.3	8858.0	8470.6	8117.9	6978.3	6632.6	5359.3
72.5°	3827.0	3774.9	4287.4	5430.5	8048.4	8170.0	8065.8	7650.6	6801.1	6101.0	4349.9
75°	2619.7	2680.5	3140.9	4094.6	6684.7	6868.9	7329.2	7289.3	6050.7	5057.0	2977.6
77.5°	1792.8	1818.8	2213.2	3047.0	5298.5	5369.7	6132.3	5889.1	4449.0	3107.8	993.7
80°	1167.4	1158.7	1513.1	2169.8	3884.4	3875.7	4379.5	3726.3	2397.3	1059.7	137.2
82.5°	651.4	689.7	906.8	1426.2	2624.9	2652.7	2734.4	2037.7	922.5	123.3	86.9
85°	366.5	382.2	521.2	807.8	1375.9	1445.3	1219.5	748.7	165.0	67.8	50.4
87.5°	86.9	83.4	166.8	309.2	229.3	248.4	118.1	34.7	17.4	12.2	12.2
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°	1605.2	1605.2	1605.2	1605.2	1605.2	1605.2	1605.2	1605.2	1605.2	1605.2	1605.2
2.5°	1603.4	1600.0	1596.5	1589.5	1584.3	1568.7	1570.4	1580.9	1570.4	1587.8	1577.4
5°	1606.9	1601.7	1593.0	1572.2	1556.5	1544.4	1540.9	1539.2	1525.3	1540.9	1533.9
7.5°	1620.8	1615.6	1596.5	1573.9	1551.3	1514.8	1509.6	1502.7	1476.6	1487.0	1478.4
10°	1653.8	1646.9	1613.9	1582.6	1547.8	1499.2	1471.4	1450.6	1421.0	1424.5	1415.8
12.5°	1695.5	1688.6	1650.3	1598.2	1549.6	1481.8	1433.2	1393.2	1349.8	1349.8	1341.1
15°	1744.1	1737.2	1693.8	1633.0	1556.5	1467.9	1395.0	1330.7	1261.2	1252.5	1242.1
17.5°	1810.2	1799.7	1749.4	1671.2	1575.6	1455.8	1356.8	1261.2	1155.2	1122.2	1104.9
20°	1877.9	1865.8	1822.3	1725.0	1601.7	1443.6	1301.2	1170.9	1033.6	965.9	953.7
22.5°	1964.8	1961.3	1907.4	1771.9	1610.4	1417.6	1231.7	1070.1	886.0	792.2	773.1
25°	2067.3	2062.1	1978.7	1808.4	1600.0	1365.4	1132.7	925.9	719.2	625.4	604.5
27.5°	2188.9	2175.0	2039.5	1817.1	1570.4	1283.8	1005.8	740.0	531.6	451.7	436.0
30°	2317.4	2296.6	2103.7	1818.8	1511.4	1183.0	839.1	543.7	377.0	319.6	319.6
32.5°	2532.8	2461.6	2166.3	1794.5	1426.2	1038.8	639.3	366.5	264.1	241.5	241.5
35°	2994.9	2824.7	2265.3	1763.3	1315.1	859.9	434.3	248.4	220.6	220.6	218.9
37.5°	3688.1	3371.9	2433.8	1711.1	1163.9	639.3	286.6	205.0	210.2	210.2	210.2
40°	4131.1	3799.3	2663.1	1629.5	990.2	434.3	205.0	194.6	198.0	201.5	201.5
42.5°	4544.5	4171.0	2892.4	1516.6	799.1	278.0	191.1	182.4	184.1	184.1	185.9
45°	4806.8	4447.2	3062.7	1396.7	588.9	198.0	187.6	172.0	166.8	166.8	170.2
47.5°	5050.0	4627.9	3137.4	1238.6	380.4	185.9	178.9	159.8	152.9	151.1	151.1
50°	5293.2	4813.8	3179.1	1051.0	238.0	178.9	165.0	145.9	139.0	137.2	137.2
52.5°	5401.0	4872.8	3085.3	839.1	177.2	172.0	154.6	133.8	123.3	123.3	123.3
55°	5513.9	4982.3	2927.2	601.1	168.5	159.8	142.5	119.9	111.2	114.7	114.7
57.5°	5638.9	4904.1	2758.7	390.9	166.8	144.2	126.8	107.7	100.8	104.2	106.0
60°	5600.7	4923.2	2517.2	262.3	159.8	132.0	114.7	95.5	90.3	90.3	90.3
62.5°	5600.7	4775.6	2121.1	199.8	145.9	121.6	106.0	88.6	79.9	76.4	73.0
65°	5453.1	4426.4	1549.6	173.7	130.3	112.9	95.5	78.2	67.8	62.5	60.8
67.5°	5006.6	3847.9	623.7	158.1	119.9	104.2	88.6	71.2	59.1	52.1	50.4
70°	4256.1	2840.3	178.9	140.7	121.6	97.3	83.4	62.5	52.1	43.4	41.7
72.5°	3154.8	1500.9	145.9	111.2	107.7	83.4	78.2	59.1	45.2	36.5	34.7
75°	1593.0	205.0	125.1	79.9	83.4	86.9	74.7	52.1	41.7	29.5	27.8
77.5°	165.0	121.6	109.4	53.9	59.1	60.8	64.3	48.6	36.5	24.3	22.6
80°	102.5	92.1	107.7	46.9	34.7	41.7	43.4	38.2	29.5	19.1	19.1
82.5°	73.0	78.2	79.9	29.5	26.1	24.3	22.6	22.6	26.1	17.4	17.4
85°	50.4	52.1	33.0	19.1	17.4	15.6	13.9	13.9	12.2	13.9	12.2
87.5°	12.2	10.4	10.4	10.4	8.7	8.7	6.9	6.9	6.9	6.9	8.7
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)