

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: P507737

Luminaire Tested: **VERD-S-CA1-80-740-U-T2**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507737  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-80-740-U-T2  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1500mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10881 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.1  
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

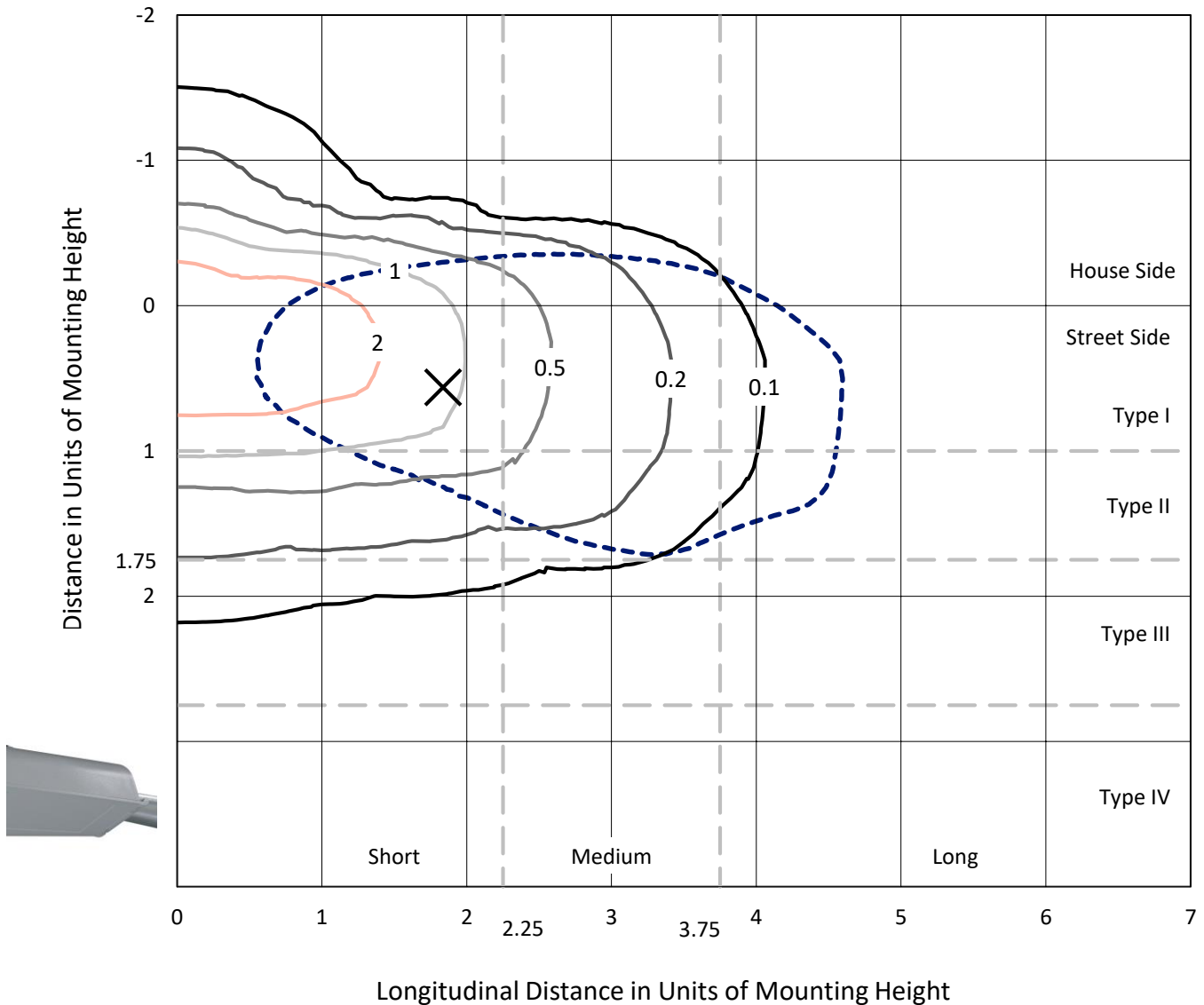


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

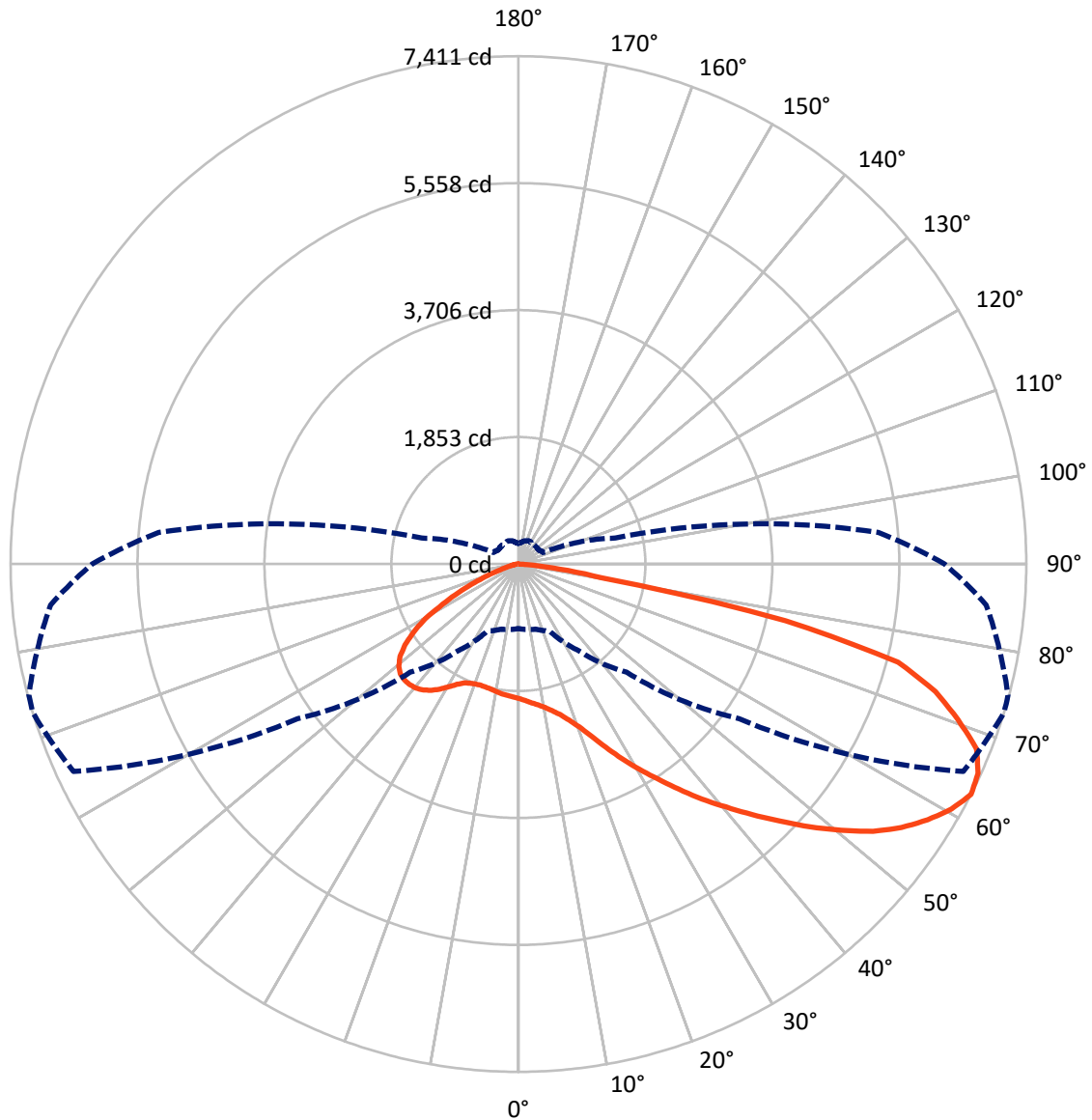


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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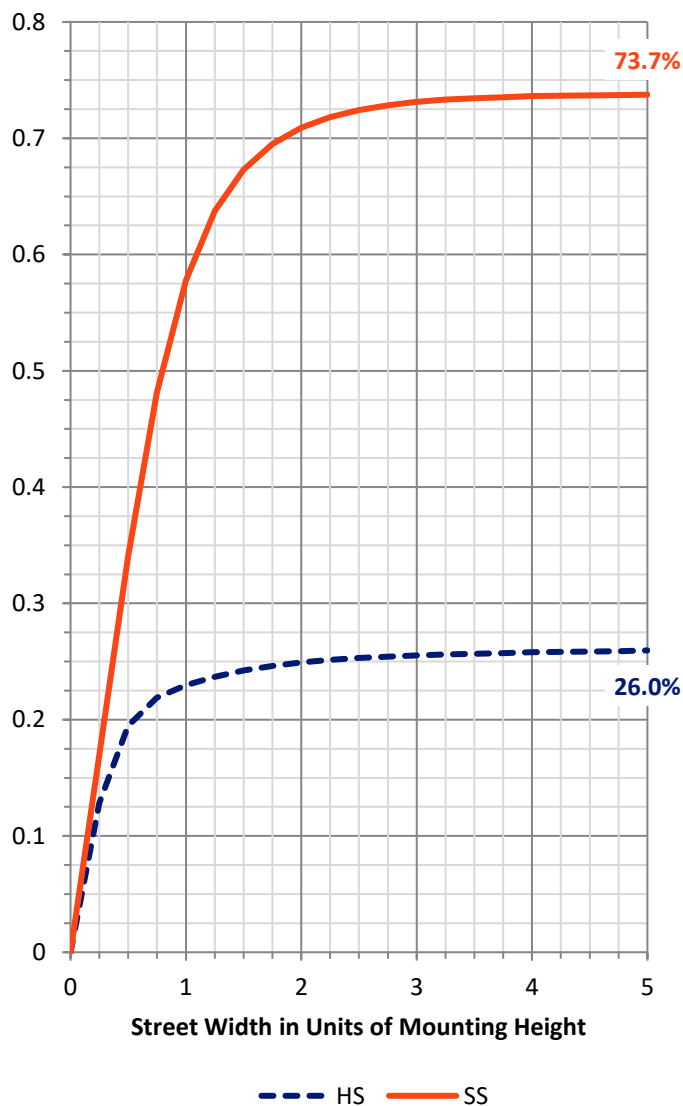
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2866.2	0.0	2866.2
	% Fixture	26.3	0.0	26.3
<b>Street Side</b>	Lumens	8014.8	0.0	8014.8
	% Fixture	73.7	0.0	73.7
<b>Total</b>	Lumens	10881.0	0.0	10881.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.0	1.7
10°-20°	580.6	5.3
20°-30°	1005.0	9.2
30°-40°	1455.5	13.4
40°-50°	1864.2	17.1
50°-60°	2158.4	19.8
60°-70°	2173.5	20.0
70°-80°	1328.8	12.2
80°-90°	125.1	1.1
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°	10881.0	100.0
0°-180°	10881.0	100.0

**Coefficient of Utilization**



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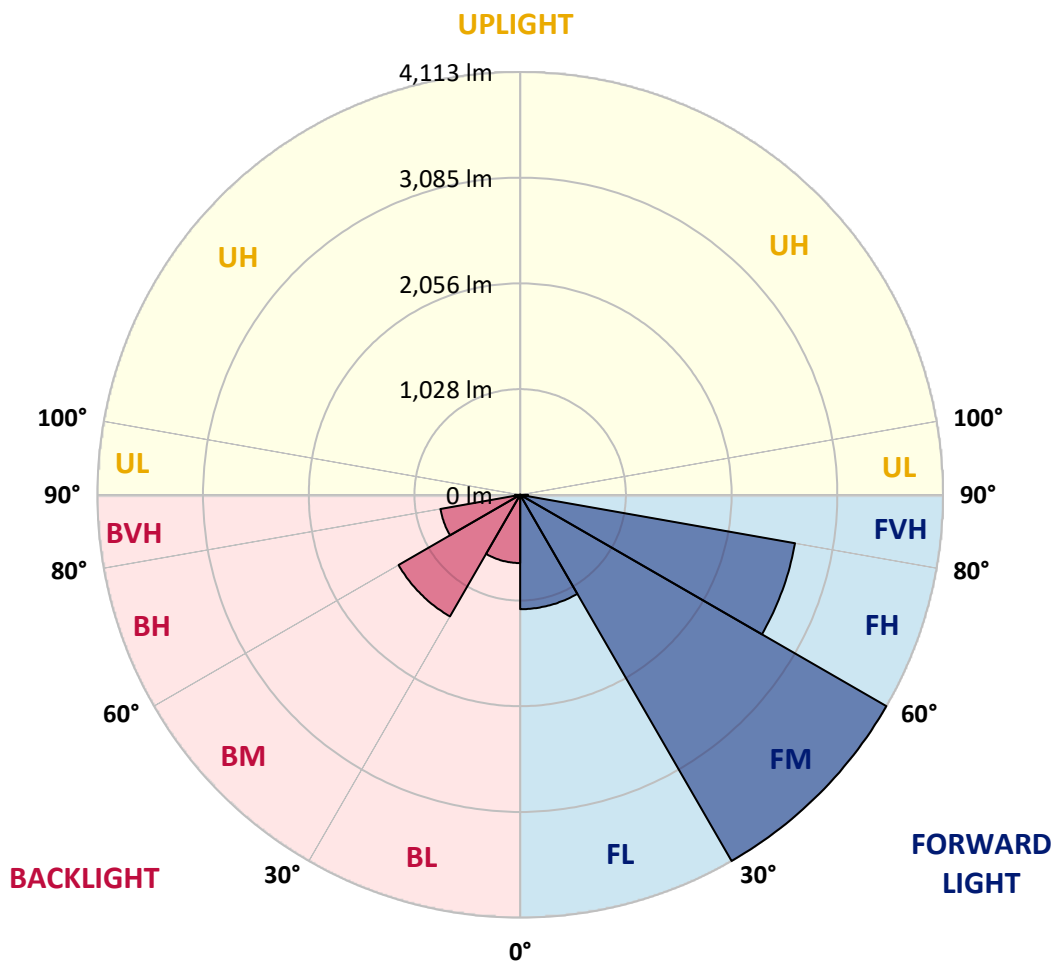
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1112.1	10.2			
FM	(30°-60°)	4112.7	37.8			
FH	(60°-80°)	2714.4	24.9			G2/5000
FVH	(80°-90°)	75.6	0.7			G1/100
BL	(0°-30°)	663.5	6.1	B2/1000		
BM	(30°-60°)	1365.4	12.5	B2/2500		
BH	(60°-80°)	787.8	7.2	B2/1000		G2/1000
BVH	(80°-90°)	49.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4
2.5°	2066.6	2063.5	2057.4	2054.3	2048.2	2032.9	2023.7	2008.3	1996.1	1993.0	1974.6
5°	2167.8	2170.9	2167.8	2158.6	2146.3	2124.9	2094.2	2054.3	2035.9	2029.8	1999.1
7.5°	2262.8	2262.8	2259.8	2247.5	2235.2	2207.6	2164.7	2118.7	2075.8	2063.5	2023.7
10°	2354.8	2354.8	2345.6	2333.4	2315.0	2281.2	2238.3	2180.1	2127.9	2109.5	2042.1
12.5°	2452.9	2449.9	2437.6	2419.2	2394.7	2367.1	2321.1	2256.7	2198.5	2177.0	2081.9
15°	2529.6	2529.6	2520.4	2508.1	2486.7	2452.9	2410.0	2354.8	2278.2	2259.8	2137.1
17.5°	2597.1	2600.1	2594.0	2594.0	2575.6	2551.1	2514.3	2468.3	2394.7	2367.1	2219.9
20°	2652.2	2649.2	2661.4	2670.6	2676.8	2661.4	2640.0	2609.3	2535.7	2508.1	2327.2
22.5°	2676.8	2682.9	2719.7	2765.7	2793.3	2796.4	2793.3	2790.2	2725.8	2689.0	2474.4
25°	2689.0	2698.2	2753.4	2833.2	2894.5	2940.5	2989.5	3020.2	2961.9	2934.3	2695.2
27.5°	2701.3	2710.5	2774.9	2873.0	2989.5	3099.9	3198.0	3256.3	3213.4	3179.6	2922.1
30°	2679.8	2689.0	2762.6	2900.6	3066.2	3259.3	3397.3	3480.1	3474.0	3452.5	3182.7
32.5°	2633.8	2643.0	2725.8	2897.5	3145.9	3421.9	3575.2	3713.1	3740.7	3719.3	3443.3
35°	2551.1	2563.3	2658.4	2860.7	3182.7	3556.8	3762.2	3964.6	4035.1	4038.2	3728.5
37.5°	2437.6	2443.7	2560.3	2790.2	3195.0	3651.8	3918.6	4206.8	4350.9	4354.0	4019.8
40°	2284.3	2299.6	2443.7	2701.3	3167.4	3719.3	4075.0	4470.5	4660.6	4639.1	4335.6
42.5°	2109.5	2121.8	2262.8	2560.3	3103.0	3759.1	4219.1	4746.4	4997.9	4985.6	4633.0
45°	1953.2	1971.6	2078.9	2364.0	2980.3	3768.3	4344.8	5022.4	5347.4	5332.1	4936.6
47.5°	1744.7	1790.6	1934.8	2189.3	2796.4	3728.5	4458.2	5396.5	5733.8	5712.3	5255.4
50°	1343.0	1358.3	1661.9	2042.1	2587.9	3630.4	4556.3	5743.0	6107.8	6092.5	5589.6
52.5°	1211.1	1223.4	1321.5	1873.4	2379.4	3455.6	4614.6	6187.6	6481.9	6439.0	5890.1
55°	1137.6	1149.8	1205.0	1496.3	2198.5	3191.9	4626.9	6564.7	6785.5	6745.6	6172.2
57.5°	1070.1	1079.3	1131.4	1281.7	1990.0	2827.0	4562.5	6868.2	7043.0	7003.2	6426.7
60°	999.6	1008.8	1064.0	1165.1	1732.4	2492.8	4350.9	7104.3	7260.7	7220.9	6656.7
62.5°	941.3	956.6	984.2	1079.3	1548.4	2232.2	3937.0	7162.6	7411.0	7395.6	6852.9
65°	870.8	876.9	919.9	996.5	1367.5	2051.3	3492.4	6994.0	7371.1	7398.7	6969.4
67.5°	791.1	794.1	834.0	889.2	1143.7	1873.4	3096.8	6767.1	7211.7	7257.6	6883.6
70°	683.8	686.8	723.6	781.9	947.4	1625.1	2689.0	6432.8	6803.9	6846.8	6552.4
72.5°	570.3	570.3	601.0	665.4	781.9	1346.1	2152.5	5700.0	6365.4	6435.9	6012.8
75°	248.4	257.6	309.7	371.0	505.9	990.4	1468.7	4412.2	5721.5	5770.6	5270.8
77.5°	67.5	67.5	79.7	104.3	147.2	441.5	466.1	1940.9	3986.0	4111.7	3897.1
80°	55.2	55.2	61.3	79.7	101.2	217.7	156.4	625.5	1232.6	1625.1	2020.6
82.5°	30.7	30.7	36.8	46.0	55.2	55.2	55.2	318.9	607.1	647.0	846.3
85°	15.3	18.4	18.4	21.5	21.5	18.4	18.4	64.4	116.5	131.8	202.4
87.5°	6.1	6.1	6.1	6.1	3.1	3.1	6.1	9.2	9.2	12.3	15.3
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°	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4
2.5°	1968.5	1959.3	1947.0	1937.8	1919.4	1901.0	1888.8	1879.6	1876.5	1873.4	1873.4
5°	1980.8	1965.4	1931.7	1898.0	1870.4	1845.8	1824.4	1809.0	1802.9	1799.8	1799.8
7.5°	1999.1	1977.7	1922.5	1873.4	1824.4	1787.6	1753.9	1732.4	1720.1	1723.2	1732.4
10°	2008.3	1974.6	1901.0	1852.0	1787.6	1729.3	1689.5	1664.9	1655.7	1655.7	1652.7
12.5°	2032.9	1983.8	1885.7	1809.0	1753.9	1674.1	1628.1	1606.7	1594.4	1576.0	1569.9
15°	2069.7	2008.3	1879.6	1778.4	1692.5	1622.0	1560.7	1530.0	1520.8	1496.3	1496.3
17.5°	2137.1	2051.3	1879.6	1744.7	1634.3	1566.8	1487.1	1444.2	1438.0	1422.7	1419.6
20°	2216.8	2109.5	1894.9	1710.9	1573.0	1484.0	1395.1	1352.2	1336.9	1321.5	1321.5
22.5°	2342.6	2198.5	1922.5	1686.4	1508.6	1398.2	1300.1	1238.7	1214.2	1211.1	1205.0
25°	2535.7	2339.5	1965.4	1661.9	1444.2	1303.1	1205.0	1125.3	1085.4	1079.3	1076.2
27.5°	2747.3	2532.7	2051.3	1640.4	1373.6	1195.8	1079.3	993.4	944.4	938.3	935.2
30°	2974.2	2732.0	2164.7	1622.0	1284.7	1073.2	941.3	858.5	812.5	800.3	803.3
32.5°	3222.6	2946.6	2287.4	1606.7	1189.7	913.7	791.1	735.9	686.8	665.4	668.4
35°	3464.8	3136.7	2394.7	1594.4	1064.0	769.6	674.6	616.3	567.2	539.6	539.6
37.5°	3737.7	3360.5	2483.6	1569.9	929.1	671.5	579.5	521.3	484.5	459.9	459.9
40°	4004.4	3584.4	2554.1	1523.9	778.8	591.8	478.3	444.6	420.1	404.7	398.6
42.5°	4265.1	3808.2	2600.1	1447.2	653.1	496.7	398.6	395.5	398.6	383.3	380.2
45°	4534.9	4029.0	2633.8	1324.6	564.2	410.9	355.7	377.1	398.6	392.5	392.5
47.5°	4829.2	4243.6	2661.4	1125.3	478.3	361.8	352.6	374.1	401.7	404.7	404.7
50°	5111.3	4461.3	2652.2	870.8	420.1	358.7	355.7	361.8	398.6	407.8	401.7
52.5°	5375.0	4648.3	2578.7	634.7	392.5	364.9	364.9	358.7	389.4	395.5	398.6
55°	5641.8	4823.1	2413.1	502.9	377.1	364.9	380.2	364.9	374.1	377.1	383.3
57.5°	5884.0	5000.9	2167.8	450.7	374.1	364.9	380.2	371.0	371.0	358.7	355.7
60°	6071.0	5148.1	1870.4	429.3	364.9	367.9	374.1	374.1	364.9	337.3	328.1
62.5°	6218.2	5270.8	1462.6	401.7	358.7	361.8	358.7	371.0	349.5	309.7	300.5
65°	6301.0	5292.2	1119.2	371.0	343.4	355.7	346.5	343.4	325.0	282.1	263.7
67.5°	6209.0	5142.0	781.9	340.3	325.0	346.5	331.1	318.9	297.4	257.6	233.0
70°	5853.3	4706.6	515.1	300.5	300.5	325.0	312.8	294.4	266.8	236.1	208.5
72.5°	5184.9	4056.6	309.7	248.4	266.8	297.4	291.3	266.8	187.0	144.1	125.7
75°	4384.6	3332.9	199.3	187.0	217.7	266.8	269.8	239.2	159.4	128.8	128.8
77.5°	3185.8	2189.3	116.5	104.3	144.1	214.6	230.0	174.8	171.7	239.2	174.8
80°	1634.3	1060.9	88.9	64.4	76.7	159.4	128.8	131.8	260.6	193.2	122.6
82.5°	708.3	420.1	55.2	46.0	49.1	79.7	82.8	217.7	202.4	113.4	76.7
85°	150.2	79.7	30.7	30.7	30.7	36.8	46.0	236.1	125.7	58.3	24.5
87.5°	15.3	15.3	15.3	15.3	15.3	15.3	12.3	12.3	12.3	9.2	9.2
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)