

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: P553517

Luminaire Tested: **VERD-G-CA2-140-730-U-T4**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553517  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-140-730-U-T4  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1290mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20052 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

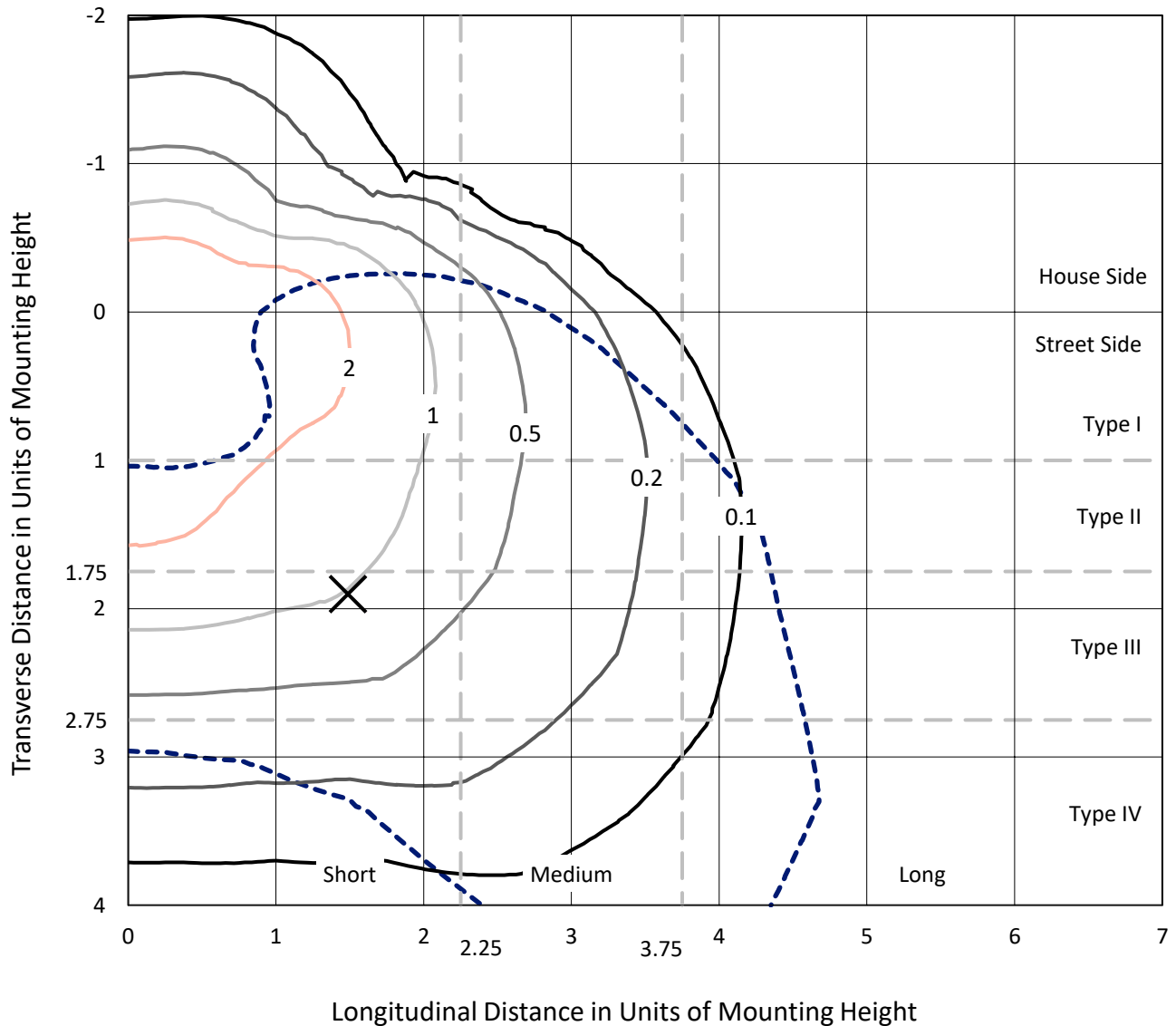
Input Watts (W): 142.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

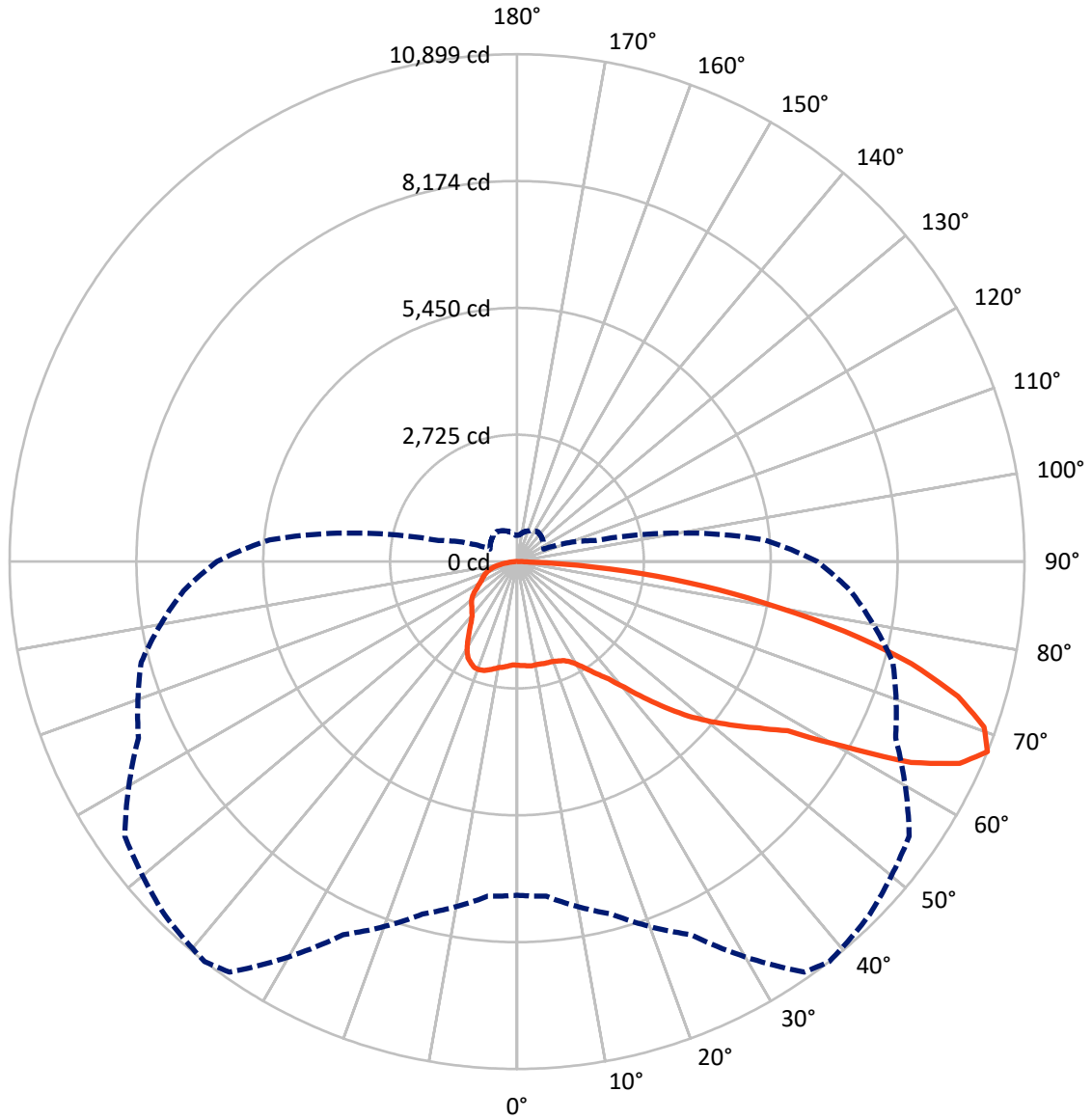
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P553517  
CATALOG NUMBER: VERD-G-CA2-140-730-U-T4

### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: VERD-G-CA2-140-730-U-T4

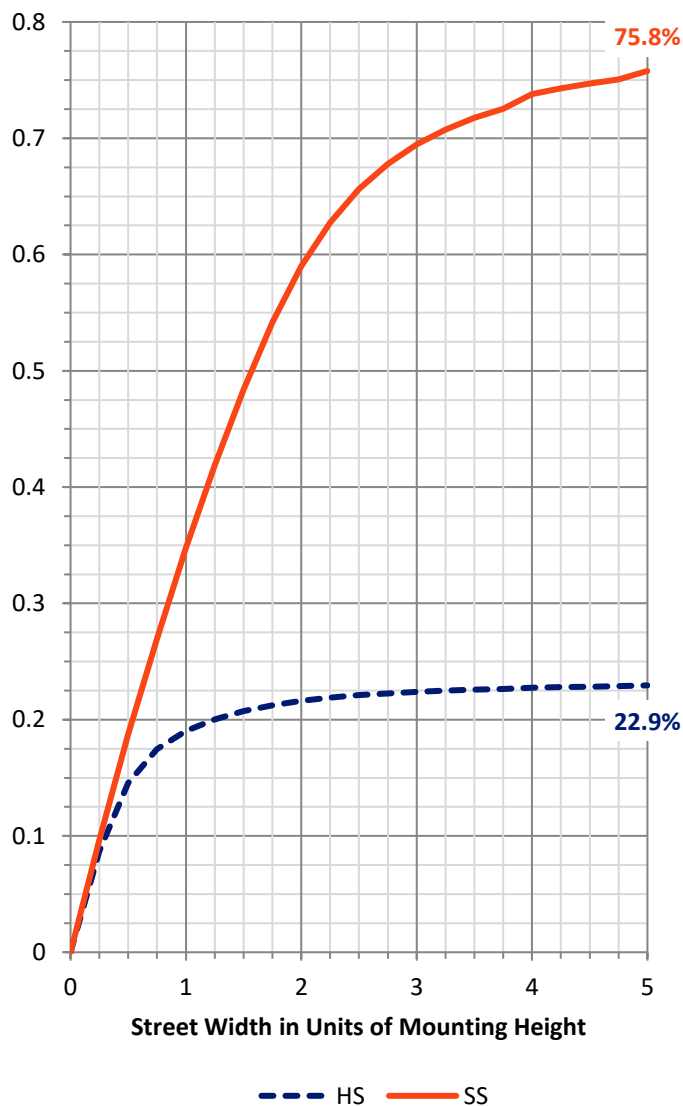
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4652.6	0.0	4652.6
	% Fixture	23.2	0.0	23.2
<b>Street Side</b>	Lumens	15399.4	0.0	15399.4
	% Fixture	76.8	0.0	76.8
<b>Total</b>	Lumens	20052.0	0.0	20052.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.2	1.1
10°-20°	666.6	3.3
20°-30°	1129.8	5.6
30°-40°	1731.4	8.6
40°-50°	2852.9	14.2
50°-60°	4077.6	20.3
60°-70°	5079.6	25.3
70°-80°	3619.8	18.1
80°-90°	678.1	3.4
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°	20052.0	100.0
0°-180°	20052.0	100.0



REPORT NUMBER: P553517

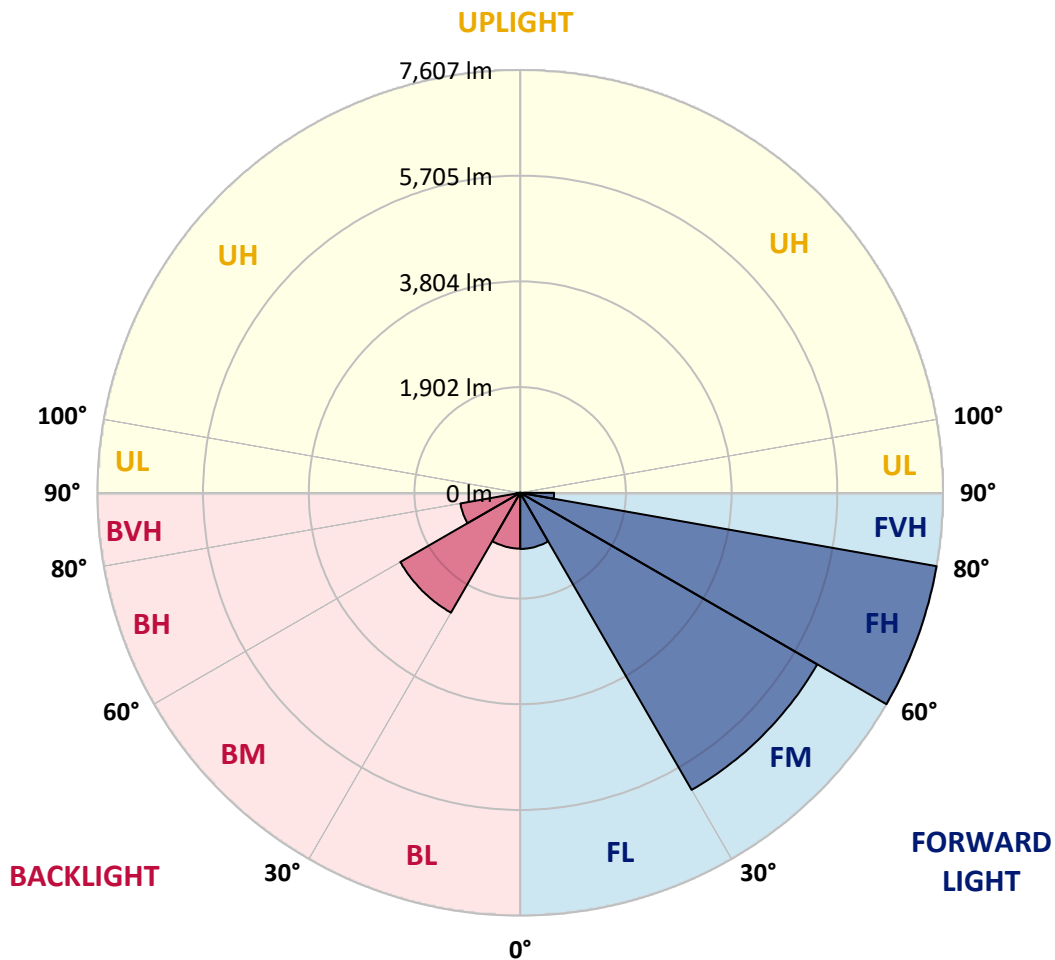
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1009.3	5.0			
FM (30°-60°)	6171.5	30.8			
FH (60°-80°)	7607.3	37.9			G4/12000
FVH (80°-90°)	611.3	3.0			G4/750
BL (0°-30°)	1003.3	5.0	B3/2500		
BM (30°-60°)	2490.4	12.4	B2/2500		
BH (60°-80°)	1092.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	66.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





REPORT NUMBER: P553517

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8
2.5°	2269.1	2278.5	2261.1	2258.5	2247.8	2234.5	2237.1	2226.5	2213.2	2218.5	2221.2
5°	2282.4	2282.4	2269.1	2255.8	2250.5	2247.8	2250.5	2238.5	2235.8	2245.1	2237.1
7.5°	2270.5	2278.5	2255.8	2255.8	2246.5	2262.5	2263.8	2249.1	2259.8	2259.8	2258.5
10°	2267.8	2270.5	2261.1	2242.5	2241.1	2250.5	2269.1	2274.5	2279.8	2278.5	2283.8
12.5°	2237.1	2234.5	2215.8	2221.2	2246.5	2255.8	2287.8	2302.4	2322.4	2327.7	2330.4
15°	2198.5	2209.2	2210.5	2226.5	2253.1	2267.8	2299.8	2329.1	2373.1	2383.7	2382.4
17.5°	2202.5	2206.5	2213.2	2222.5	2263.8	2270.5	2322.4	2354.4	2409.0	2446.3	2465.0
20°	2227.8	2219.8	2233.1	2257.1	2279.8	2285.1	2339.7	2389.0	2463.7	2513.0	2534.3
22.5°	2270.5	2271.8	2278.5	2278.5	2294.4	2318.4	2369.1	2407.7	2499.6	2568.9	2606.2
25°	2310.4	2313.1	2321.1	2318.4	2345.1	2355.7	2403.7	2462.3	2567.6	2648.9	2720.8
27.5°	2370.4	2378.4	2373.1	2374.4	2426.3	2437.0	2458.3	2536.9	2644.9	2754.1	2882.0
30°	2482.3	2482.3	2477.0	2482.3	2538.3	2564.9	2571.6	2648.9	2736.8	2868.7	3061.9
32.5°	2643.5	2644.9	2611.6	2638.2	2700.8	2747.5	2767.5	2890.0	2988.6	3052.6	3301.8
35°	2988.6	2974.0	2939.3	2862.1	2902.0	2959.3	3023.3	3179.2	3396.4	3634.9	3885.4
37.5°	3517.6	3516.3	3393.7	3239.1	3169.8	3199.2	3288.4	3521.6	3861.4	4457.0	4678.2
40°	4105.2	4119.9	3942.7	3749.4	3545.6	3548.3	3570.9	3862.7	4354.4	5215.1	5331.0
42.5°	4691.5	4667.5	4471.6	4286.4	4009.3	3992.0	3932.0	4207.8	4870.0	5821.4	5837.4
45°	5213.8	5201.8	4984.6	4796.7	4535.6	4469.0	4401.0	4576.9	5361.7	6311.7	6206.4
47.5°	5704.1	5720.1	5420.3	5251.1	4992.6	4959.3	4880.7	4992.6	5848.0	6696.8	6506.2
50°	6262.4	6269.1	5910.6	5701.5	5445.6	5403.0	5372.3	5514.9	6350.3	7064.5	6811.4
52.5°	6887.3	6756.7	6407.6	6119.8	5874.7	5842.7	5825.4	5974.6	6900.6	7387.0	7012.6
55°	7673.4	7498.9	7141.8	6664.8	6307.7	6313.0	6253.1	6427.6	7364.3	7609.5	7208.4
57.5°	8017.2	8057.2	7990.6	7556.2	6930.0	6852.7	6704.8	6839.3	7805.4	7870.6	7363.0
60°	8664.8	8819.3	8675.4	8432.9	8247.7	8045.2	7323.0	7373.7	8207.8	8159.8	7380.3
62.5°	8708.7	8762.0	9216.4	9255.0	9434.9	9502.9	8904.6	7979.9	8572.8	8305.0	7438.9
65°	8277.0	8337.0	8884.6	9365.6	10355.6	10448.9	10259.7	9089.8	8868.6	8383.6	7392.3
67.5°	7167.1	7216.4	7838.7	8843.3	10764.7	10899.3	10715.4	10283.7	8972.6	8357.0	7187.1
70°	6130.5	6158.5	6675.5	8081.2	10483.5	10642.1	10568.8	10329.0	8968.6	8199.8	6734.1
72.5°	4815.4	4896.7	5313.7	6702.1	9773.4	9906.6	9927.9	10050.5	8740.7	7682.8	5721.4
75°	3492.3	3536.3	4009.3	5207.1	8435.6	8754.0	9128.5	9590.8	7884.0	6522.2	4230.5
77.5°	2461.0	2503.6	2948.7	3948.0	6827.4	7189.8	7866.6	8138.5	6397.0	4888.7	2226.5
80°	1620.2	1614.9	2038.6	2922.0	5123.2	5377.7	5880.0	5516.2	3712.1	2125.2	242.5
82.5°	951.4	1004.6	1305.8	2008.0	3580.2	3721.5	3708.1	2904.7	1473.7	219.9	123.9
85°	549.0	568.9	770.1	1189.9	1973.3	1993.3	1785.5	1127.2	365.1	98.6	73.3
87.5°	245.2	235.8	306.5	393.1	359.8	267.8	166.6	46.6	28.0	18.7	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P553517  
 CATALOG NUMBER: VERD-G-CA2-140-730-U-T4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8	2227.8
2.5°	2210.5	2203.8	2237.1	2218.5	2234.5	2225.2	2217.2	2227.8	2247.8	2265.1	2254.5
5°	2227.8	2231.8	2258.5	2235.8	2257.1	2253.1	2242.5	2254.5	2286.4	2302.4	2301.1
7.5°	2247.8	2250.5	2278.5	2269.1	2278.5	2270.5	2287.8	2279.8	2307.8	2318.4	2311.8
10°	2271.8	2275.8	2301.1	2302.4	2306.4	2301.1	2309.1	2313.1	2329.1	2350.4	2337.1
12.5°	2323.8	2333.1	2351.7	2371.7	2369.1	2347.7	2354.4	2333.1	2347.7	2354.4	2365.1
15°	2395.7	2418.4	2429.0	2457.0	2431.7	2419.7	2394.4	2351.7	2338.4	2331.7	2321.1
17.5°	2473.0	2494.3	2514.3	2550.3	2509.0	2477.0	2433.0	2353.1	2293.1	2271.8	2262.5
20°	2559.6	2579.6	2615.6	2639.5	2578.2	2509.0	2438.3	2321.1	2202.5	2121.2	2130.6
22.5°	2656.9	2700.8	2724.8	2718.2	2631.5	2536.9	2415.7	2237.1	2085.2	1964.0	1956.0
25°	2791.4	2816.8	2826.1	2764.8	2660.9	2517.0	2339.7	2137.2	1925.4	1789.4	1769.5
27.5°	2932.7	2959.3	2910.0	2795.4	2651.5	2470.3	2254.5	1966.7	1740.1	1609.6	1594.9
30°	3113.9	3107.2	2967.3	2786.1	2598.2	2358.4	2098.6	1792.1	1582.9	1461.7	1455.0
32.5°	3311.1	3261.8	3013.9	2740.8	2497.0	2211.8	1900.0	1626.9	1465.7	1344.4	1339.1
35°	3777.4	3550.9	3081.9	2683.5	2347.7	2009.3	1716.2	1503.0	1372.4	1235.2	1208.5
37.5°	4462.3	4097.2	3221.8	2624.9	2177.2	1809.4	1562.9	1411.0	1287.1	1140.6	1115.2
40°	5100.5	4652.8	3467.0	2580.9	2024.0	1648.2	1457.7	1347.1	1227.2	1080.6	1048.6
42.5°	5553.6	5084.5	3761.4	2509.0	1870.7	1520.3	1413.7	1323.1	1211.2	1075.3	1050.0
45°	5918.6	5457.6	4053.2	2427.7	1690.8	1411.0	1368.4	1303.1	1191.2	1059.3	1030.0
47.5°	6175.8	5692.1	4255.8	2335.7	1519.0	1344.4	1329.8	1271.1	1160.5	1036.6	1018.0
50°	6441.0	5954.6	4394.3	2241.1	1364.4	1293.8	1276.5	1199.2	1097.9	987.3	967.3
52.5°	6614.2	6082.5	4474.3	2222.5	1232.5	1224.5	1203.2	1129.9	1034.0	914.0	890.1
55°	6746.1	6195.8	4462.3	2113.2	1113.9	1133.9	1120.6	1065.9	982.0	864.7	848.8
57.5°	6778.1	6213.1	4353.0	1774.8	1002.0	1012.6	1019.3	1030.0	948.7	851.4	824.8
60°	6870.0	6131.8	4159.8	1276.5	870.1	896.7	950.0	959.3	903.4	792.8	776.8
62.5°	6811.4	6077.2	3740.1	899.4	776.8	831.4	882.1	882.1	804.8	702.2	691.5
65°	6708.8	5861.3	2926.0	708.9	727.5	783.5	830.1	798.1	731.5	635.6	628.9
67.5°	6447.6	5335.0	1746.8	638.2	692.9	746.2	779.5	731.5	668.9	574.3	563.6
70°	5697.5	4251.8	664.9	604.9	658.2	695.5	716.8	667.5	606.3	511.7	502.3
72.5°	4523.6	2659.5	422.4	563.6	614.2	647.6	660.9	603.6	506.3	398.4	387.7
75°	2722.1	759.5	366.4	487.7	541.0	598.3	575.6	501.0	427.7	334.4	327.8
77.5°	688.9	230.5	326.4	393.1	439.7	507.7	506.3	451.7	373.1	273.1	262.5
80°	165.2	161.2	265.2	290.5	331.8	389.1	383.7	375.7	295.8	189.2	155.9
82.5°	105.3	111.9	179.9	162.6	189.2	226.5	257.2	242.5	221.2	115.9	103.9
85°	70.6	89.3	87.9	61.3	85.3	127.9	166.6	151.9	125.2	72.0	64.0
87.5°	10.7	12.0	16.0	24.0	37.3	62.6	82.6	81.3	61.3	45.3	42.6
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)