

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: P400210

Luminaire Tested: **ARCH-L-PA3-250-730-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400210  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-250-730-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30772 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

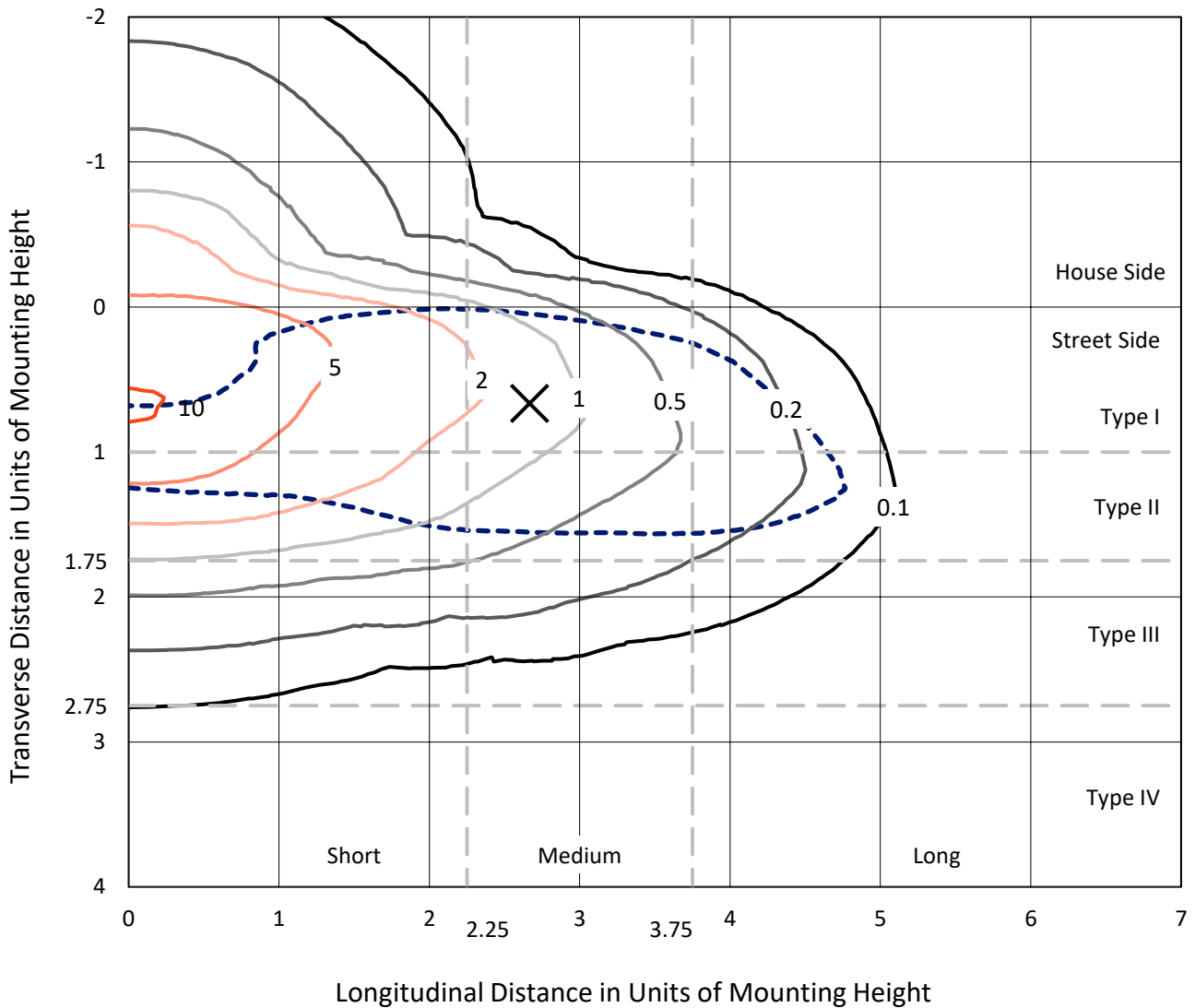
Input Watts (W): 251  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

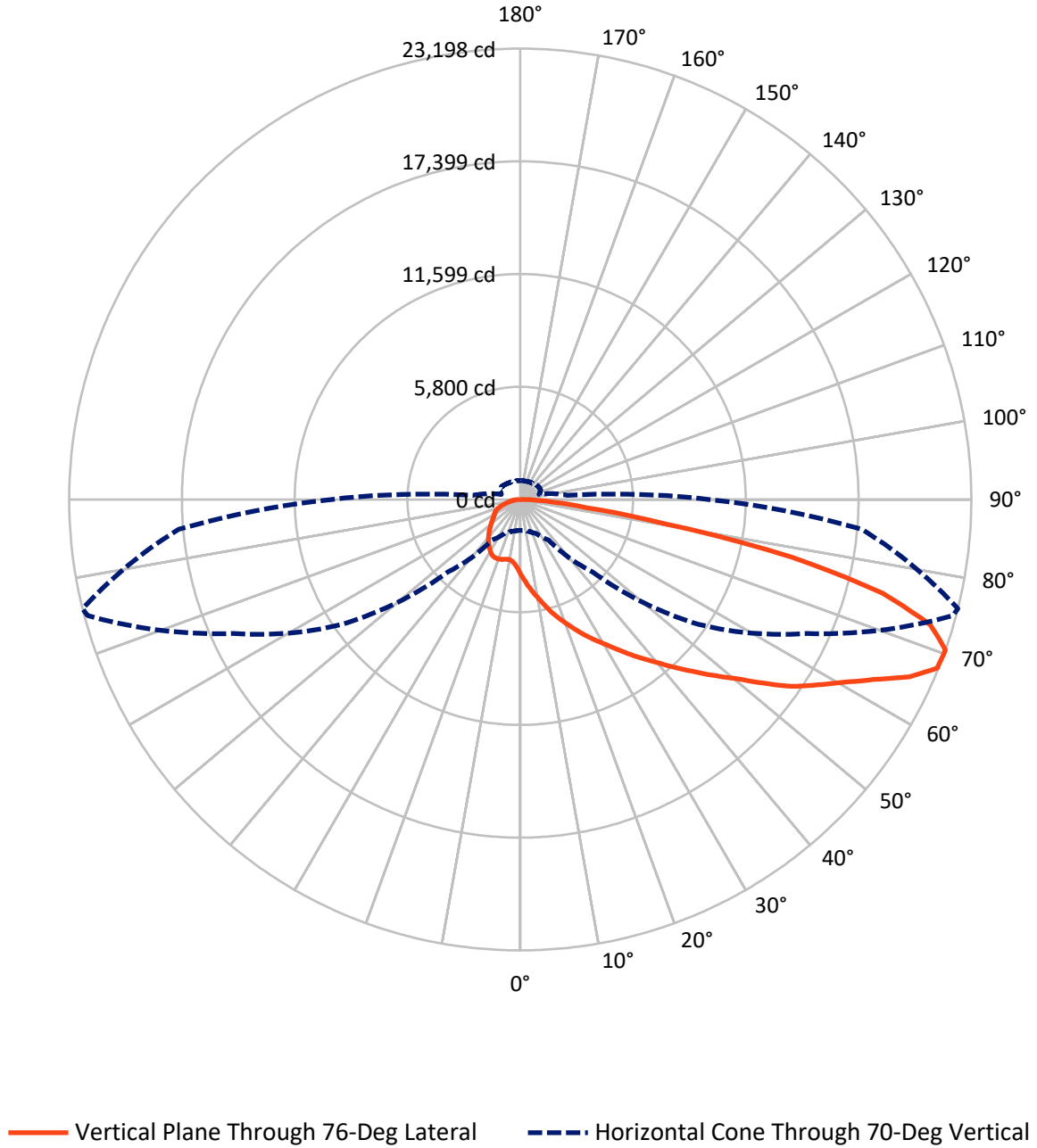
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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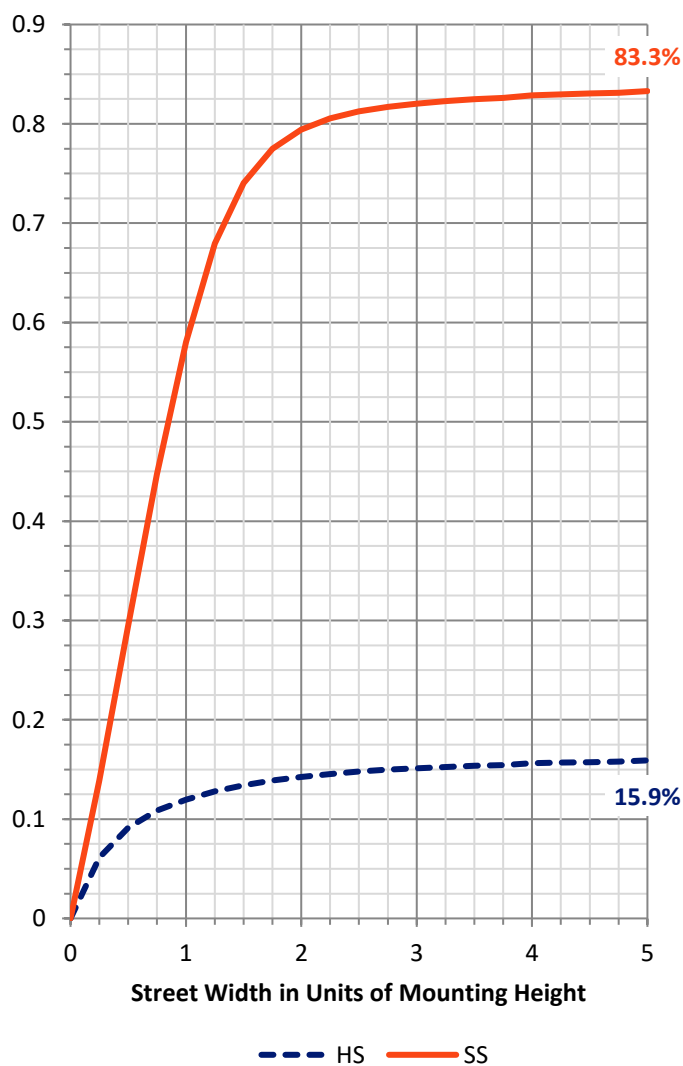
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5023.8	0.0	5023.8
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	25748.2	0.0	25748.2
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	30772.0	0.0	30772.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.8	1.3
10°-20°	1358.9	4.4
20°-30°	2431.3	7.9
30°-40°	3933.0	12.8
40°-50°	5689.7	18.5
50°-60°	6512.2	21.2
60°-70°	5990.5	19.5
70°-80°	3704.4	12.0
80°-90°	752.2	2.4
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°	30772.0	100.0
0°-180°	30772.0	100.0

**Coefficient of Utilization**



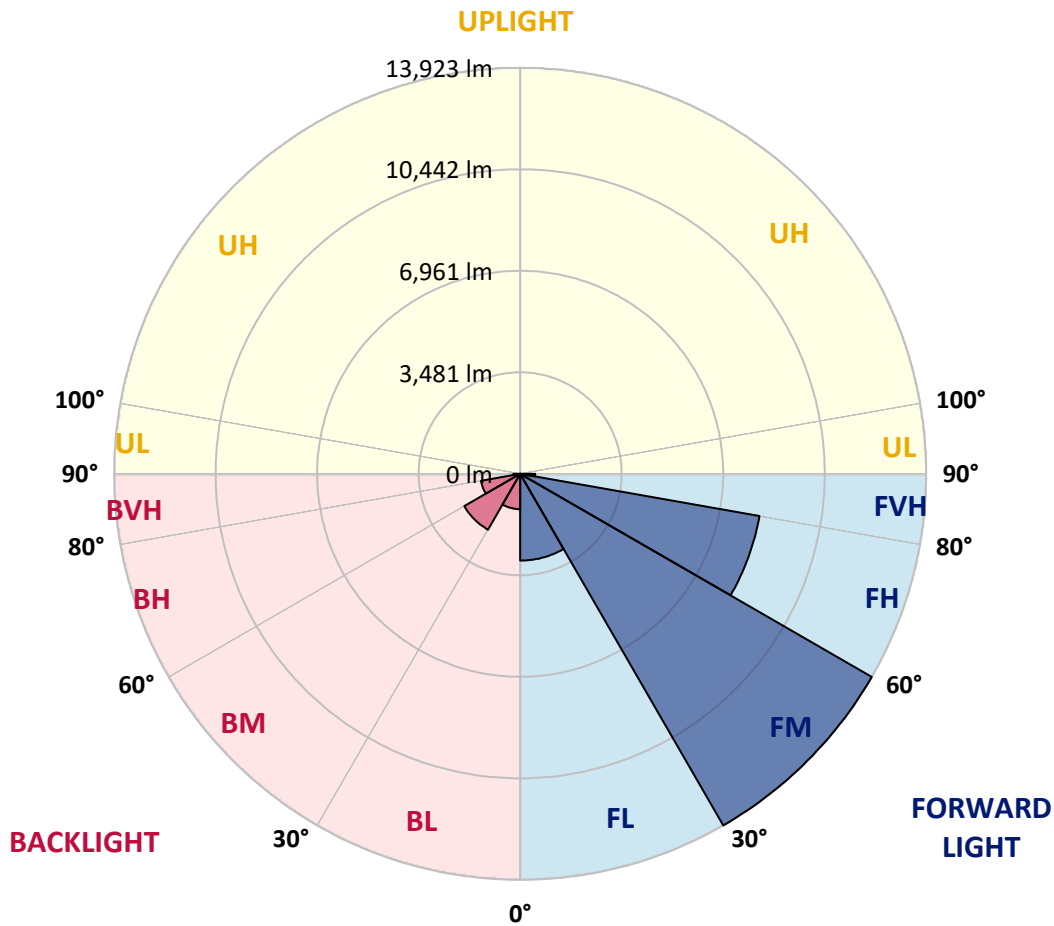
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2976.7	9.7			
FM (30°-60°)	13922.9	45.2			
FH (60°-80°)	8332.2	27.1			G4/12000
FVH (80°-90°)	516.4	1.7			G4/750
BL (0°-30°)	1213.4	3.9	B3/2500		
BM (30°-60°)	2212.0	7.2	B2/2500		
BH (60°-80°)	1362.6	4.4	B3/2500		G3/2500
BVH (80°-90°)	235.8	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3848.2	3848.2	3848.2	3848.2	3848.2	3848.2	3848.2	3848.2	3848.2	3848.2	3848.2
2.5°	4904.3	4867.9	4863.8	4807.2	4754.6	4612.9	4511.8	4333.7	4155.7	4151.7	3973.6
5°	5669.1	5632.7	5612.4	5543.6	5454.6	5268.5	5086.4	4811.2	4507.7	4487.5	4151.7
7.5°	6187.0	6154.6	6114.2	6085.9	6000.9	5835.0	5612.4	5284.7	4867.9	4827.4	4358.0
10°	6535.0	6514.8	6506.7	6486.5	6433.8	6300.3	6085.9	5737.9	5228.0	5183.5	4576.5
12.5°	6684.7	6676.6	6713.1	6769.7	6789.9	6737.3	6531.0	6203.2	5624.6	5576.0	4839.5
15°	6510.7	6518.8	6611.9	6806.1	7012.5	7125.8	7004.4	6684.7	6073.7	6004.9	5147.1
17.5°	6429.8	6441.9	6506.7	6692.8	6984.2	7336.2	7392.9	7142.0	6506.7	6409.6	5470.8
20°	6571.4	6587.6	6636.2	6781.8	6984.2	7360.5	7655.9	7579.0	6931.6	6830.4	5782.4
22.5°	6931.6	6951.8	6947.7	7040.8	7178.4	7437.4	7801.5	7991.7	7376.7	7263.4	6106.1
25°	7700.4	7684.2	7546.6	7502.1	7538.5	7704.4	7995.8	8388.3	7842.0	7728.7	6446.0
27.5°	8744.4	8724.1	8473.3	8246.7	8044.3	8117.2	8270.9	8708.0	8315.4	8186.0	6769.7
30°	9861.2	9836.9	9545.6	9177.3	8728.2	8623.0	8602.7	8987.2	8792.9	8655.3	7113.7
32.5°	10949.7	10929.5	10617.9	10189.0	9569.8	9254.2	9060.0	9298.7	9335.2	9201.6	7490.0
35°	11941.1	11941.1	11674.0	11164.1	10464.1	9986.6	9667.0	9683.1	9958.3	9804.5	7918.9
37.5°	12823.2	12819.1	12527.8	12026.0	11354.3	10808.1	10411.5	10148.5	10553.1	10419.6	8368.1
40°	13523.2	13494.9	13280.4	12843.4	12167.7	11625.4	11224.8	10694.8	11216.7	11095.4	8845.5
42.5°	14033.1	14016.9	13871.2	13490.9	12847.5	12337.6	12062.5	11382.7	11969.4	11848.0	9403.9
45°	14231.4	14263.7	14263.7	13903.6	13393.7	12928.4	12807.0	12139.3	12782.7	12661.3	10002.8
47.5°	13911.7	13996.7	14170.7	14194.9	13745.8	13430.2	13470.6	12900.1	13620.3	13555.6	10658.3
50°	12912.2	13070.0	13450.4	14138.3	13887.4	13814.6	14037.1	13677.0	14518.6	14498.4	11455.5
52.5°	10334.6	10719.0	11904.6	13138.8	13790.3	13992.6	14599.6	14551.0	15675.9	15708.3	12495.4
55°	7927.0	8072.7	9444.4	11544.5	13195.5	13936.0	14975.9	15404.8	16930.3	16970.8	13450.4
57.5°	6409.6	6506.7	7255.3	9444.4	11839.9	13628.4	15271.3	15902.5	17893.4	17998.6	14300.1
60°	5078.3	5219.9	5721.7	7227.0	9942.1	12887.9	15477.7	16456.9	18929.3	19087.1	15315.8
62.5°	3775.3	3844.1	4317.6	5353.4	7870.3	11556.7	15368.4	17059.8	20199.9	20390.0	16537.8
65°	2686.8	2747.5	3083.4	3807.7	5818.8	9756.0	14733.1	17509.0	21794.2	21988.4	17767.9
67.5°	2011.1	2035.4	2225.5	2662.6	3921.0	7579.0	13446.3	17432.1	22959.5	23133.5	18261.6
70°	1590.3	1598.3	1691.4	1926.1	2549.3	5276.6	11192.5	16303.1	23044.5	23198.3	17638.5
72.5°	1319.1	1315.1	1367.7	1481.0	1776.4	3338.3	8291.2	14207.1	21952.0	22057.2	15898.5
75°	1088.5	1096.6	1133.0	1197.7	1355.6	2201.3	5373.7	11334.1	19366.3	19253.0	13341.1
77.5°	914.5	910.5	926.6	983.3	1096.6	1582.2	3148.1	8190.0	14352.7	14296.1	8756.5
80°	736.5	744.5	768.8	817.4	922.6	1205.8	1861.4	5110.7	7700.4	7494.0	4184.0
82.5°	493.7	570.5	619.1	675.8	797.1	890.2	1181.6	2597.8	3443.5	3390.9	1897.8
85°	234.7	311.6	461.3	526.0	647.4	558.4	801.2	1238.2	1723.8	1703.6	683.8
87.5°	48.6	48.6	246.8	295.4	400.6	238.7	445.1	538.2	833.6	781.0	279.2
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°	3848.2	3848.2	3848.2	3848.2	3848.2	3848.2	3848.2	3848.2	3848.2	3848.2	3848.2
2.5°	3868.4	3759.1	3540.6	3366.6	3188.6	3087.4	2962.0	2901.3	2889.2	2856.8	2881.1
5°	3937.2	3722.7	3310.0	3038.9	2856.8	2767.8	2723.3	2707.1	2703.0	2694.9	2694.9
7.5°	4030.3	3702.5	3164.3	2889.2	2771.8	2743.5	2755.6	2779.9	2784.0	2792.0	2788.0
10°	4143.6	3706.5	3083.4	2852.7	2796.1	2800.1	2840.6	2873.0	2889.2	2901.3	2897.3
12.5°	4301.4	3755.1	3071.3	2877.0	2852.7	2868.9	2909.4	2941.8	2958.0	2962.0	2962.0
15°	4507.7	3856.3	3099.6	2929.6	2909.4	2921.5	2945.8	2958.0	2962.0	2958.0	2958.0
17.5°	4734.3	3977.7	3140.0	2962.0	2929.6	2917.5	2909.4	2897.3	2873.0	2856.8	2856.8
20°	4952.9	4086.9	3160.3	2958.0	2901.3	2852.7	2804.2	2743.5	2703.0	2670.7	2670.7
22.5°	5171.4	4188.1	3160.3	2913.4	2824.4	2731.4	2630.2	2533.1	2472.4	2431.9	2431.9
25°	5402.0	4285.2	3136.0	2836.6	2703.0	2569.5	2431.9	2310.5	2249.8	2209.4	2201.3
27.5°	5596.2	4341.8	3071.3	2727.3	2553.3	2383.4	2225.5	2100.1	2055.6	2019.2	2019.2
30°	5802.6	4378.3	2949.9	2585.7	2383.4	2189.1	2027.3	1926.1	1877.6	1824.9	1820.9
32.5°	6033.3	4402.5	2812.3	2436.0	2209.4	2003.0	1865.4	1784.5	1679.3	1622.6	1614.5
35°	6300.3	4434.9	2666.6	2266.0	2035.4	1849.2	1768.3	1634.8	1533.6	1485.0	1481.0
37.5°	6583.6	4459.2	2508.8	2116.3	1877.6	1748.1	1667.1	1509.3	1420.3	1347.5	1339.4
40°	6883.0	4459.2	2346.9	1970.6	1752.1	1703.6	1549.8	1408.2	1258.4	1222.0	1213.9
42.5°	7214.8	4451.1	2185.1	1829.0	1634.8	1602.4	1481.0	1331.3	1254.4	1222.0	1213.9
45°	7566.9	4422.8	2031.3	1667.1	1513.4	1448.6	1355.6	1315.1	1282.7	1282.7	1282.7
47.5°	7967.5	4398.5	1857.3	1521.5	1424.3	1351.5	1282.7	1258.4	1254.4	1266.5	1278.7
50°	8481.4	4390.4	1711.6	1416.3	1355.6	1270.6	1262.5	1242.3	1246.3	1246.3	1246.3
52.5°	9104.5	4317.6	1574.1	1339.4	1286.8	1185.6	1209.9	1230.1	1238.2	1234.2	1230.1
55°	9561.8	4188.1	1456.7	1286.8	1238.2	1153.2	1185.6	1218.0	1226.1	1213.9	1213.9
57.5°	9974.5	4006.0	1363.7	1246.3	1205.8	1133.0	1169.4	1201.8	1193.7	1189.7	1185.6
60°	10447.9	3832.0	1290.8	1226.1	1173.5	1124.9	1157.3	1177.5	1165.4	1157.3	1153.2
62.5°	10961.8	3662.0	1238.2	1226.1	1149.2	1120.9	1145.1	1153.2	1129.0	1120.9	1120.9
65°	11200.6	3395.0	1181.6	1226.1	1137.1	1112.8	1120.9	1112.8	1088.5	1088.5	1084.4
67.5°	10808.1	2953.9	1108.7	1209.9	1153.2	1100.6	1084.4	1072.3	1044.0	1044.0	1035.9
70°	9723.6	2427.9	1003.5	1157.3	1157.3	1096.6	1035.9	1007.6	975.2	987.3	971.1
72.5°	8307.4	1926.1	874.0	1068.3	1133.0	1092.5	983.3	938.8	910.5	922.6	898.3
75°	6729.2	1493.1	720.3	926.6	1072.3	1072.3	930.7	870.0	837.6	837.6	809.3
77.5°	4289.2	1104.7	586.7	768.8	963.1	1044.0	886.2	793.1	744.5	732.4	712.2
80°	2124.4	776.9	481.5	611.0	821.4	979.2	853.8	704.1	635.3	611.0	574.6
82.5°	1129.0	538.2	384.4	477.5	655.5	882.1	813.3	607.0	522.0	485.6	445.1
85°	505.8	331.8	307.5	364.2	497.7	724.3	732.4	497.7	400.6	477.5	352.0
87.5°	186.1	149.7	149.7	186.1	287.3	303.5	517.9	319.7	254.9	174.0	137.6
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)