

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: P510150

Luminaire Tested: **VERD-M-CA4-210-760-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510150  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-210-760-U-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5700K, 960mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28031 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

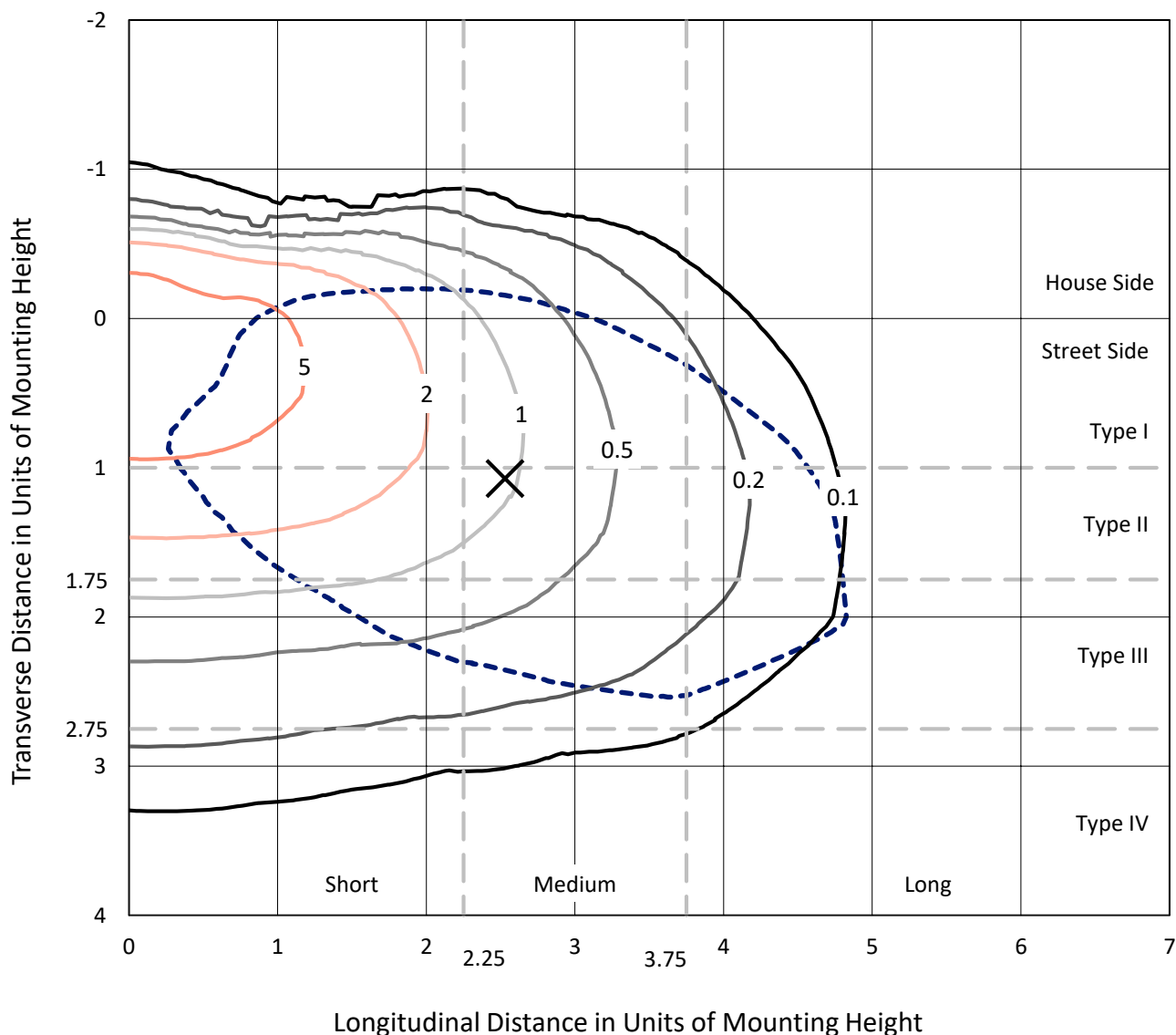
Input Watts (W): 213.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P510150  
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### Iso-Footcandle Lines of Horizontal Illumination

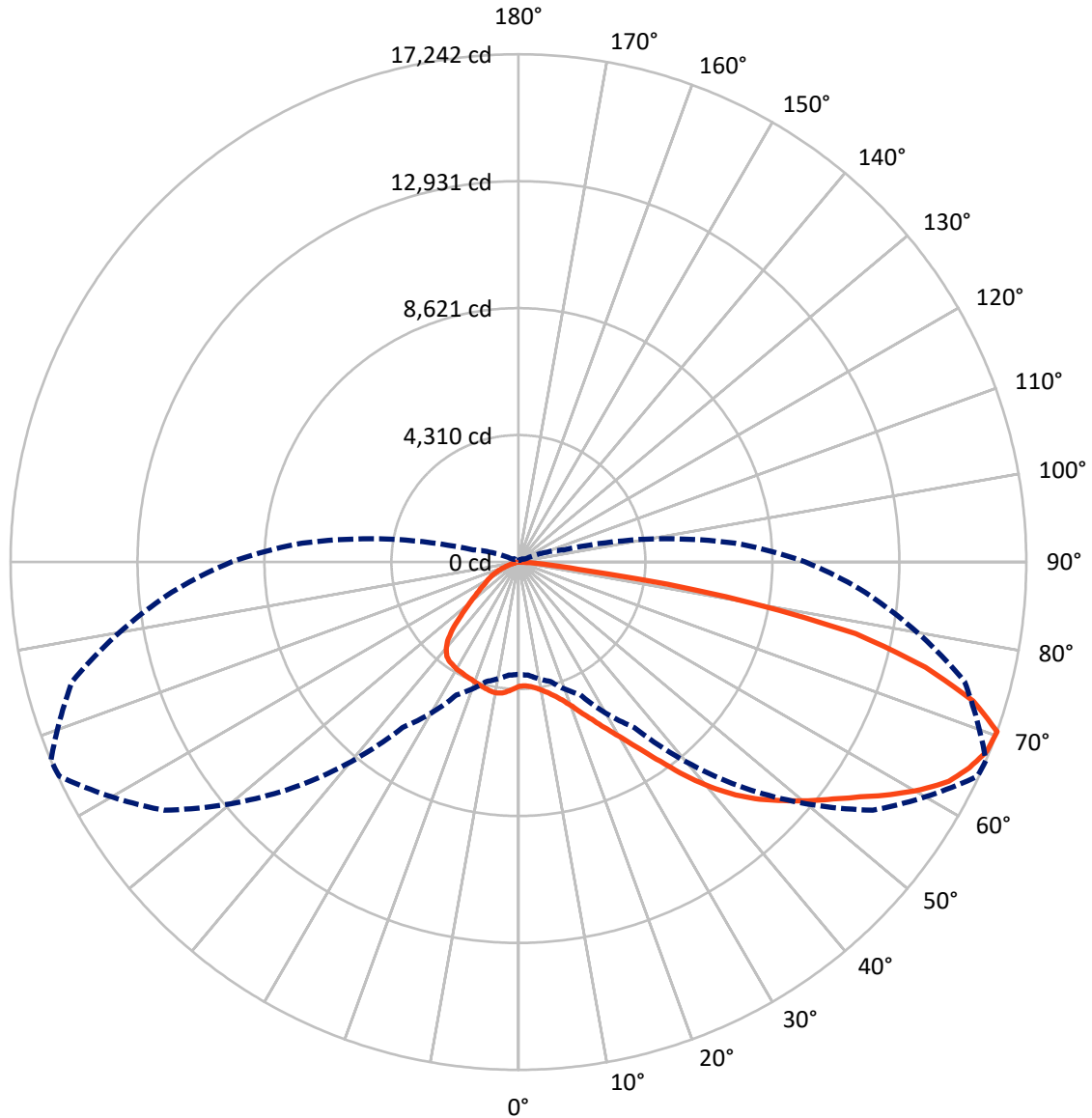
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Medium - N/A

REPORT NUMBER: P510150  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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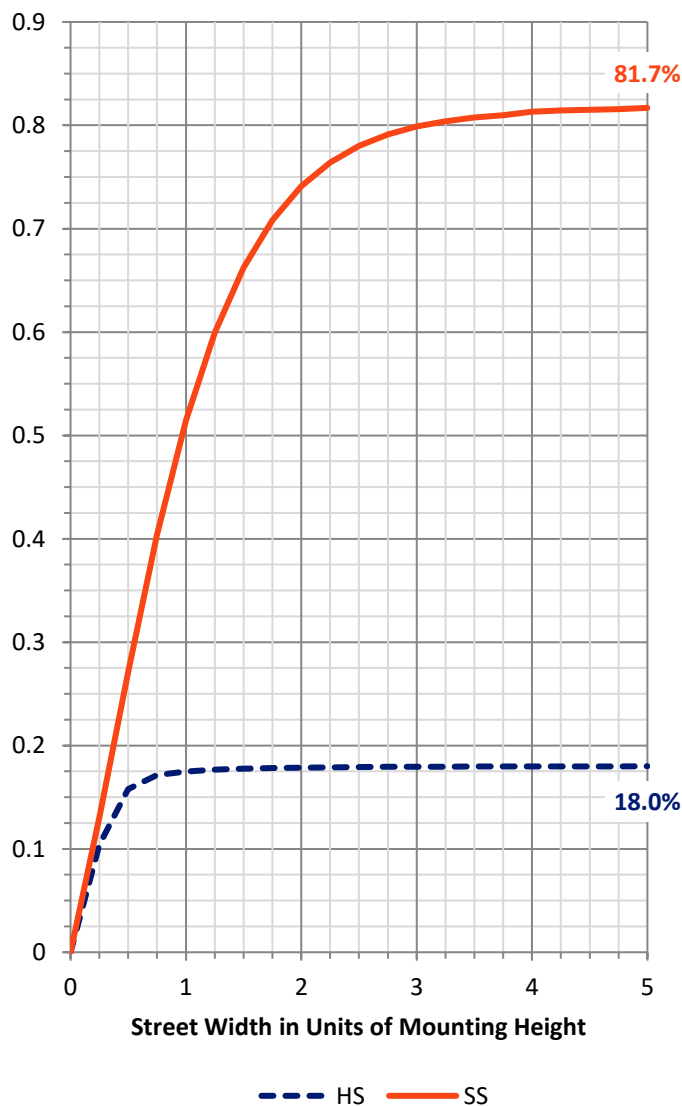
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5107.5	0.0	5107.5
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	22923.5	0.0	22923.5
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	28031.0	0.0	28031.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	420.1	1.5
10°-20°	1310.6	4.7
20°-30°	2274.0	8.1
30°-40°	3377.3	12.0
40°-50°	4633.4	16.5
50°-60°	5690.1	20.3
60°-70°	6100.4	21.8
70°-80°	3872.6	13.8
80°-90°	352.4	1.3
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°	28031.0	100.0
0°-180°	28031.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P510150

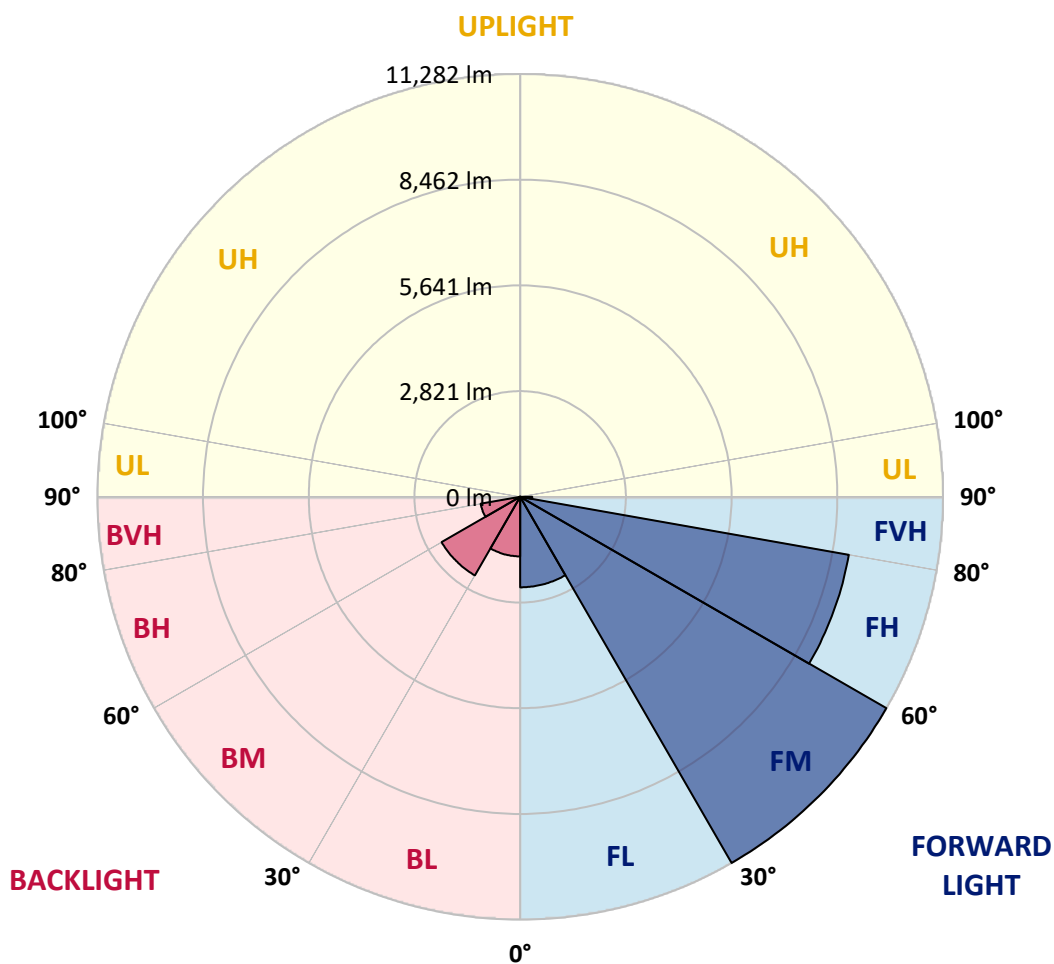
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2415.1	8.6			
FM	(30°-60°)	11282.2	40.2			
FH	(60°-80°)	8904.8	31.8			G4/12000
FVH	(80°-90°)	321.5	1.1			G3/500
BL	(0°-30°)	1589.5	5.7	B3/2500		
BM	(30°-60°)	2418.7	8.6	B2/2500		
BH	(60°-80°)	1068.3	3.8	B3/2500		G3/2500
BVH	(80°-90°)	31.0	0.1			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5
2.5°	4178.5	4217.8	4194.8	4192.1	4219.2	4193.4	4211.1	4207.0	4204.3	4208.4	4236.8
5°	4288.4	4334.5	4303.3	4293.8	4308.7	4262.6	4258.5	4249.0	4246.3	4247.7	4288.4
7.5°	4441.6	4495.9	4483.7	4459.3	4451.1	4375.2	4361.6	4327.7	4316.9	4319.6	4360.3
10°	4683.0	4737.3	4712.9	4658.6	4624.7	4537.9	4489.1	4445.7	4424.0	4426.7	4470.1
12.5°	4992.3	5043.8	5003.1	4904.1	4885.1	4745.4	4669.5	4577.2	4562.3	4540.6	4586.7
15°	5283.8	5328.6	5309.6	5217.4	5165.8	5000.4	4860.7	4746.8	4733.2	4712.9	4711.5
17.5°	5606.6	5651.4	5616.1	5548.3	5480.5	5283.8	5133.3	4986.8	4951.6	4933.9	4870.2
20°	5951.1	6021.6	6014.8	5959.2	5877.9	5647.3	5434.4	5268.9	5230.9	5198.4	5064.1
22.5°	6306.4	6398.7	6378.3	6348.5	6314.6	6055.5	5807.3	5616.1	5587.6	5518.5	5306.9
25°	6699.7	6763.5	6748.6	6763.5	6740.4	6511.2	6240.0	6006.7	5968.7	5903.6	5579.5
27.5°	7080.8	7147.3	7173.1	7141.9	7156.8	6992.7	6671.3	6462.4	6425.8	6306.4	5907.7
30°	7425.3	7508.0	7544.7	7558.2	7608.4	7438.9	7201.5	6947.9	6935.7	6813.7	6340.3
32.5°	7700.6	7792.8	7882.4	7940.7	8020.7	7946.1	7710.1	7556.9	7558.2	7448.4	6990.0
35°	7900.0	8005.8	8136.0	8290.6	8458.8	8427.6	8287.9	8290.6	8312.3	8348.9	7818.6
37.5°	8121.1	8206.5	8359.7	8575.4	8831.7	8896.8	8877.8	9093.5	9199.3	9264.3	8546.9
40°	8252.6	8339.4	8530.6	8820.9	9193.8	9349.8	9524.7	9903.1	10041.5	9973.7	9169.4
42.5°	8107.5	8184.8	8517.1	9018.9	9490.8	9844.8	10158.1	10711.4	10811.8	10590.7	9694.3
45°	7919.0	8019.3	8369.2	9073.1	9753.9	10330.3	10817.2	11415.3	11489.9	11176.6	10158.1
47.5°	7764.4	7852.5	8260.7	9014.8	9996.7	10828.1	11396.3	12079.9	12098.9	11712.3	10638.2
50°	7566.4	7673.5	8099.4	8942.9	10143.2	11268.8	11926.6	12699.7	12741.7	12267.0	11045.1
52.5°	7358.9	7463.3	7904.1	8824.9	10249.0	11635.0	12477.2	13358.8	13362.9	12854.3	11479.1
55°	7052.4	7163.6	7651.8	8654.0	10281.5	11877.8	13030.6	14031.5	14073.5	13449.6	11872.4
57.5°	6728.2	6823.2	7348.0	8388.2	10160.8	12107.0	13598.8	14778.7	14894.0	14121.0	12210.1
60°	6298.3	6393.2	6947.9	8039.7	9904.5	12364.7	14249.8	15679.3	15691.5	14664.8	12455.5
62.5°	5835.8	5918.6	6428.5	7493.1	9507.1	12463.7	14808.6	16399.4	16398.1	15149.0	12577.6
65°	5286.6	5320.5	5839.9	6821.8	8890.0	12318.6	15055.4	16874.1	16828.0	15497.5	12536.9
67.5°	4635.6	4672.2	5065.5	5987.7	7994.9	11751.7	14945.6	17103.3	17149.4	15808.1	12360.6
70°	3811.0	3854.4	4197.5	4976.0	6854.3	10847.1	14687.9	17202.3	17241.6	15683.3	11816.8
72.5°	2812.8	2871.1	3081.3	3703.8	5202.5	9113.8	13494.4	16118.7	16140.4	14641.8	10684.3
75°	1746.8	1854.0	2052.0	2461.5	3375.6	6391.9	11534.7	14409.9	14274.2	13060.4	8841.2
77.5°	698.5	716.1	815.1	1152.8	1646.5	3328.2	8361.1	11454.6	11713.7	10449.7	6324.1
80°	406.9	404.2	427.2	537.1	706.6	1137.9	3252.2	6425.8	7162.2	5739.5	2845.4
82.5°	328.2	316.0	316.0	344.5	339.1	478.7	1066.0	1877.0	2058.7	1826.8	809.7
85°	172.2	168.2	137.0	169.5	169.5	238.7	409.6	531.6	561.5	489.6	303.8
87.5°	43.4	43.4	43.4	52.9	42.0	50.2	69.2	84.1	86.8	70.5	44.8
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: P510150

CATALOG NUMBER: VERD-M-CA4-210-760-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5	4216.5
2.5°	4247.7	4259.9	4307.4	4300.6	4308.7	4308.7	4322.3	4337.2	4382.0	4356.2	4345.3
5°	4296.5	4320.9	4380.6	4402.3	4434.8	4438.9	4466.0	4475.5	4524.4	4497.2	4497.2
7.5°	4390.1	4418.6	4474.2	4482.3	4497.2	4471.5	4478.2	4448.4	4481.0	4448.4	4449.8
10°	4495.9	4514.9	4552.8	4498.6	4475.5	4414.5	4400.9	4327.7	4353.5	4311.4	4300.6
12.5°	4597.6	4590.8	4562.3	4466.0	4402.3	4301.9	4259.9	4160.9	4155.5	4099.9	4089.0
15°	4693.9	4646.4	4554.2	4405.0	4296.5	4156.8	4056.5	3948.0	3910.0	3846.2	3840.8
17.5°	4811.9	4730.5	4566.4	4346.7	4169.0	3965.6	3823.2	3701.1	3622.5	3564.2	3562.8
20°	4955.6	4830.9	4571.8	4280.2	4037.5	3777.1	3577.7	3423.1	3310.5	3237.3	3235.9
22.5°	5136.0	4966.5	4622.0	4204.3	3869.3	3549.2	3301.0	3033.9	2879.3	2730.1	2702.9
25°	5347.6	5103.5	4665.4	4165.0	3703.8	3311.9	2943.0	2552.4	2312.4	2193.0	2148.3
27.5°	5644.6	5331.3	4729.1	4090.4	3547.9	3018.9	2481.9	2056.0	1767.2	1665.4	1665.4
30°	5987.7	5618.8	4848.5	4045.6	3330.9	2608.0	1976.0	1519.0	1250.4	1097.2	1093.1
32.5°	6511.2	5961.9	4957.0	3949.3	3067.8	2160.5	1429.5	979.2	763.6	668.6	663.2
35°	7263.9	6615.6	5131.9	3853.0	2686.7	1608.5	907.3	561.5	435.3	381.1	378.4
37.5°	7988.1	7238.2	5509.0	3661.8	2145.5	1010.4	503.2	324.1	265.8	259.0	256.3
40°	8498.1	7775.2	5774.8	3370.2	1524.4	535.7	291.6	234.6	230.6	227.8	226.5
42.5°	9054.1	8173.9	5963.3	2998.6	904.6	310.6	237.3	211.6	204.8	202.1	202.1
45°	9505.8	8557.8	5998.6	2467.0	455.7	256.3	217.0	192.6	184.4	189.9	191.2
47.5°	9922.1	8919.9	5879.2	1855.3	307.9	238.7	203.4	179.0	173.6	187.2	187.2
50°	10277.4	9226.4	5605.3	1384.7	288.9	225.1	189.9	165.5	164.1	176.3	177.7
52.5°	10631.4	9473.2	5174.0	1045.6	274.0	210.2	176.3	153.3	149.2	157.3	158.7
55°	10912.2	9561.4	4853.9	778.5	263.1	196.7	164.1	141.0	131.6	130.2	132.9
57.5°	11066.8	9484.1	4540.6	572.3	250.9	184.4	151.9	124.8	109.9	109.9	109.9
60°	11069.5	9390.5	4205.6	453.0	237.3	170.9	138.3	107.1	92.2	89.5	89.5
62.5°	11039.6	9223.7	3718.8	393.3	222.4	160.0	120.7	90.9	80.0	75.9	75.9
65°	10908.1	8909.0	3128.8	336.3	204.8	151.9	103.1	81.4	71.9	66.5	66.5
67.5°	10498.5	8319.1	2408.6	292.9	188.5	134.3	93.6	73.2	63.7	58.3	57.0
70°	9747.2	7365.6	1589.5	249.5	172.2	119.3	85.4	66.5	57.0	51.5	50.2
72.5°	8487.2	5994.5	798.8	211.6	147.8	109.9	77.3	58.3	48.8	43.4	43.4
75°	6650.9	4160.9	435.3	168.2	116.6	96.3	67.8	48.8	42.0	38.0	38.0
77.5°	4078.2	2062.8	297.0	130.2	88.2	78.7	54.2	40.7	36.6	35.3	35.3
80°	1487.8	675.4	199.4	92.2	66.5	61.0	43.4	35.3	33.9	33.9	33.9
82.5°	537.1	343.1	134.3	62.4	42.0	46.1	35.3	29.8	28.5	29.8	31.2
85°	221.1	150.5	48.8	35.3	23.1	24.4	21.7	20.3	21.7	23.1	23.1
87.5°	33.9	29.8	17.6	17.6	13.6	12.2	9.5	10.8	13.6	16.3	16.3
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)