

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: McGRAW-EDISON

Report Number: P456104

Luminaire Tested: **GALN-SA7B-750-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456104  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7B-750-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28671 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

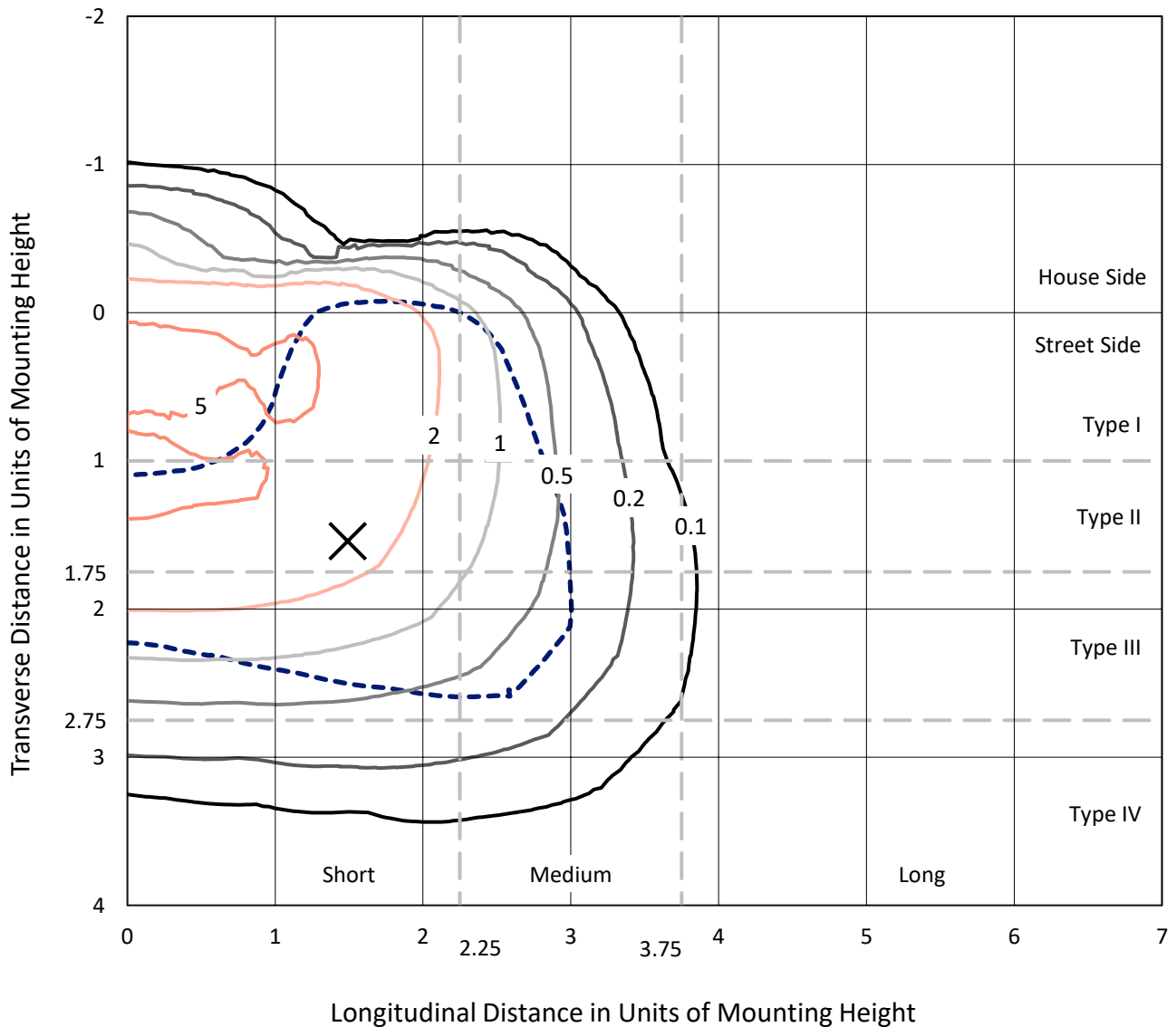
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

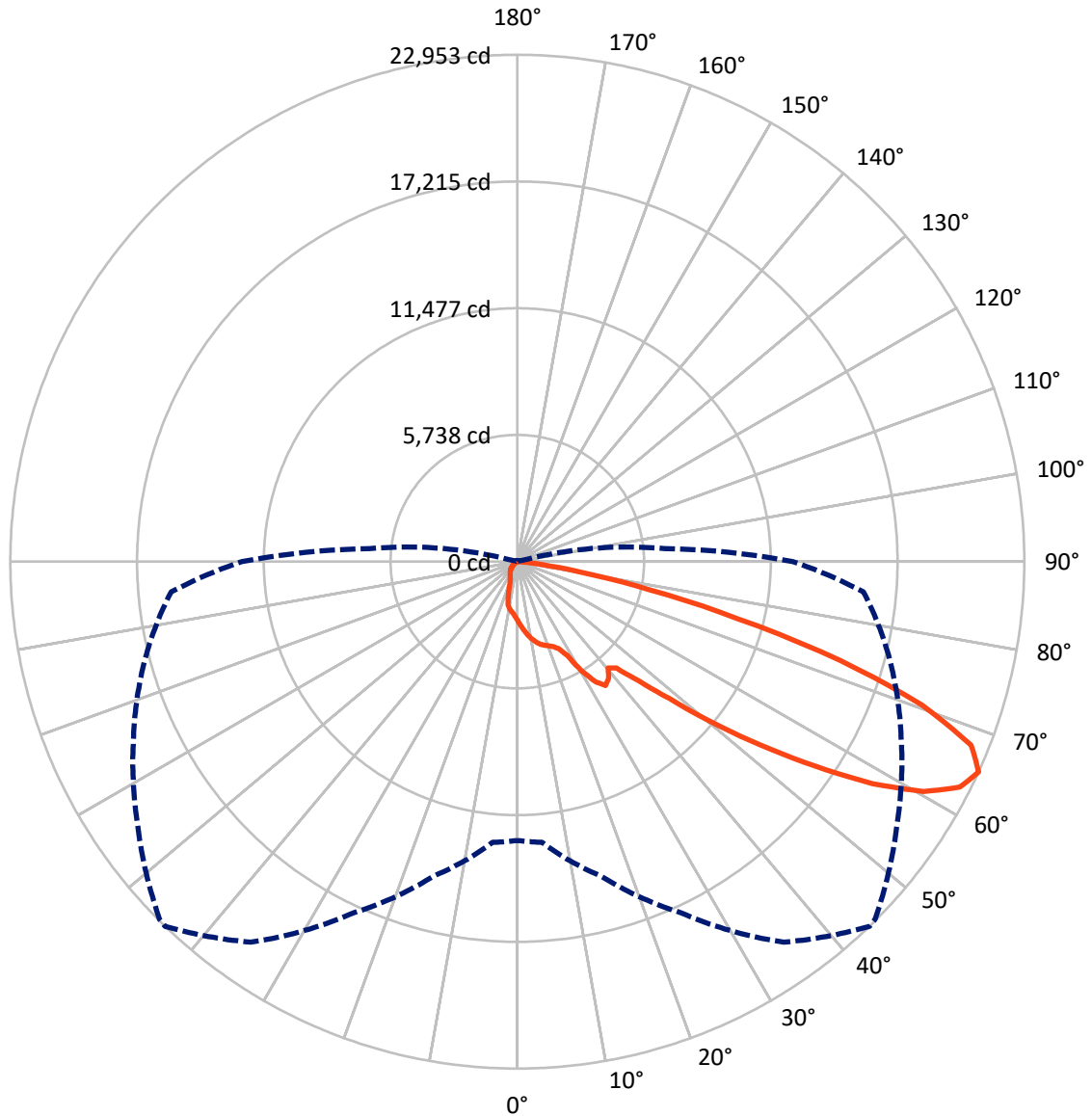
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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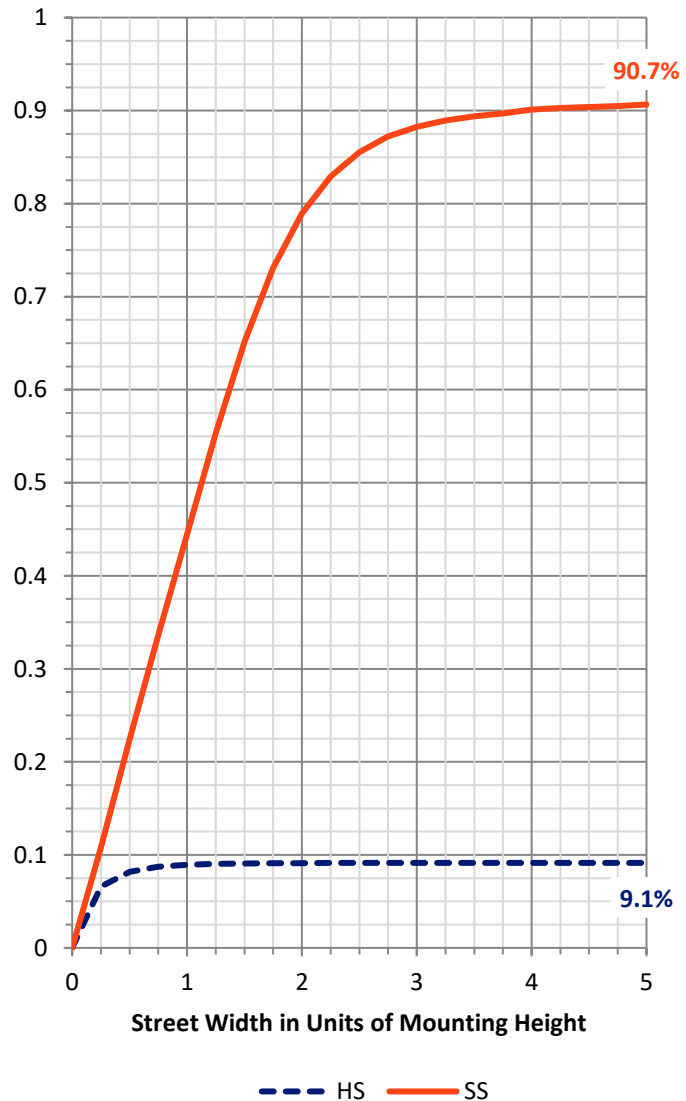
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2641.6	0.0	2641.6
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	26029.4	0.0	26029.4
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	28671.0	0.0	28671.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.4	0.9
10°-20°	798.8	2.8
20°-30°	1354.4	4.7
30°-40°	2252.0	7.9
40°-50°	3932.0	13.7
50°-60°	7681.7	26.8
60°-70°	8912.6	31.1
70°-80°	3245.5	11.3
80°-90°	228.7	0.8
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°	28671.0	100.0
0°-180°	28671.0	100.0



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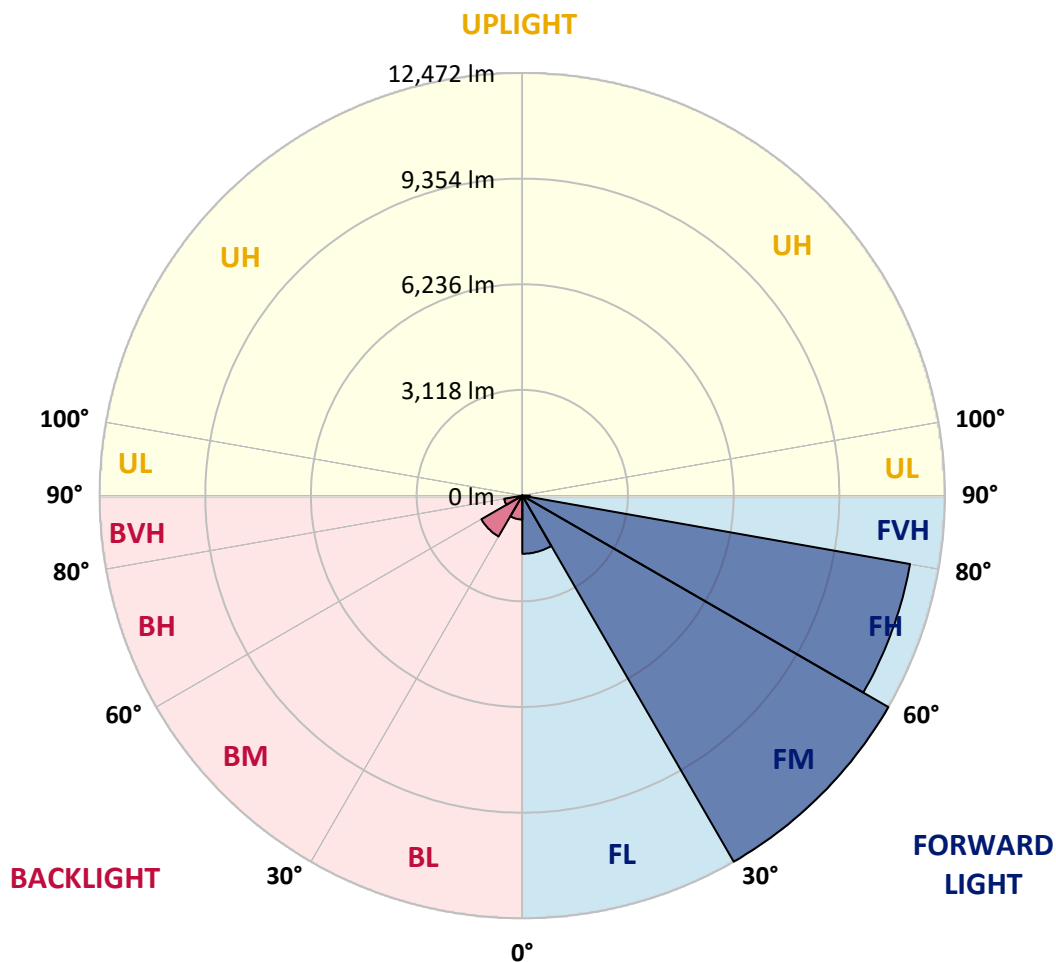
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1714.8	6.0			
FM (30°-60°)	12471.9	43.5			
FH (60°-80°)	11617.1	40.5			G4/12000
FVH (80°-90°)	225.6	0.8			G3/500
BL (0°-30°)	703.8	2.5	B2/1000		
BM (30°-60°)	1393.7	4.9	B2/2500		
BH (60°-80°)	541.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4
2.5°	3003.6	2990.5	2983.9	2948.8	2922.5	2889.7	2889.7	2848.1	2799.9	2747.3	2699.1
5°	3338.8	3316.9	3288.4	3257.7	3196.4	3108.8	3108.8	3021.1	2920.4	2830.5	2731.9
7.5°	3660.9	3641.1	3592.9	3533.8	3433.0	3341.0	3334.4	3207.4	3086.9	2951.0	2810.8
10°	3943.5	3928.1	3886.5	3772.6	3667.4	3546.9	3544.7	3402.3	3262.1	3095.6	2922.5
12.5°	4140.6	4142.8	4088.1	3978.5	3842.7	3728.8	3720.0	3579.8	3433.0	3253.4	3040.9
15°	4280.9	4280.9	4223.9	4101.2	3978.5	3877.7	3869.0	3746.3	3595.1	3400.1	3170.1
17.5°	4320.3	4333.4	4272.1	4162.6	4064.0	3976.3	3974.1	3871.2	3750.7	3562.3	3301.6
20°	4305.0	4318.1	4269.9	4184.5	4116.5	4066.2	4059.6	4018.0	3906.2	3728.8	3441.8
22.5°	4272.1	4285.2	4250.2	4199.8	4166.9	4182.3	4171.3	4206.4	4147.2	3932.5	3608.3
25°	4278.7	4291.8	4265.5	4237.0	4265.5	4359.7	4388.2	4539.4	4486.8	4191.0	3787.9
27.5°	4484.6	4510.9	4473.6	4486.8	4587.6	4806.7	4861.4	5122.1	4889.9	4519.7	4068.3
30°	4942.5	4925.0	4854.9	4918.4	5268.9	5733.4	5718.0	5676.4	5312.7	4898.7	4401.4
32.5°	5358.7	5343.4	5339.0	5612.9	6248.2	6473.9	6462.9	6059.8	5691.7	5332.4	4730.0
35°	5527.4	5468.3	5455.1	6119.0	7181.5	6883.5	6815.6	6217.5	6151.8	5805.7	5065.2
37.5°	6035.7	5994.1	5790.3	6202.2	6809.1	6710.5	6657.9	6489.2	6642.6	6224.1	5444.2
40°	7082.9	6966.8	6782.8	6379.7	6281.1	6322.7	6375.3	6837.5	7223.1	6795.9	5950.3
42.5°	8384.3	8358.0	8016.2	7264.7	6526.4	6583.4	6651.3	7564.9	8057.8	7656.9	6776.2
45°	9946.3	9983.6	9490.6	8603.3	7635.0	7683.2	7781.8	8638.4	9188.3	8995.5	8075.4
47.5°	11366.0	11337.5	11171.0	10248.6	9354.8	9247.4	9407.4	10016.4	10752.5	10783.2	9687.8
50°	12794.4	12945.5	12698.0	12336.5	11672.7	11447.0	11387.9	11685.8	12807.5	12660.7	11624.5
52.5°	14847.2	14926.0	14461.6	14369.6	14520.7	13789.0	13729.8	13802.1	14805.5	14301.7	13074.8
55°	16137.6	16091.6	15918.5	16637.1	17235.2	16321.6	16247.1	15955.7	16464.0	15460.6	14470.3
57.5°	16545.0	16610.8	17013.9	18313.0	19728.3	18952.8	18816.9	17988.8	17660.2	16540.7	15754.2
60°	16363.2	16483.7	17353.5	19285.8	21248.7	21132.6	21016.5	19625.3	18519.0	17443.3	16654.6
62.5°	15068.4	15237.1	16628.3	19112.7	21763.6	22488.7	22344.1	20646.3	19090.8	17881.4	16812.3
65°	12627.9	12752.7	14750.8	17541.9	21031.8	22953.2	22900.6	20966.1	19180.6	17480.5	15732.3
67.5°	9002.1	9427.1	11278.3	14783.6	18867.3	22160.1	22249.9	20582.7	18337.1	15747.6	13028.8
70°	5658.9	5948.1	7275.7	10583.8	15125.4	19441.3	19737.1	18827.9	15914.1	12275.1	8721.6
72.5°	2699.1	2913.8	3860.2	6699.5	10675.9	15296.3	15530.7	15456.2	12305.8	7733.6	4499.9
75°	1202.8	1283.8	1842.5	3419.9	6892.3	10281.5	10888.4	10989.1	7689.8	3783.5	1750.5
77.5°	613.4	615.6	863.2	1656.3	3441.8	6134.3	6254.8	6607.5	4169.1	1667.2	609.0
80°	326.4	348.3	457.9	782.1	1785.5	3021.1	3005.8	3303.8	1849.0	817.2	203.7
82.5°	146.8	162.1	258.5	409.7	871.9	1145.8	1235.6	1351.7	793.1	521.4	89.8
85°	43.8	52.6	127.1	205.9	315.5	330.8	370.2	477.6	449.1	370.2	46.0
87.5°	6.6	6.6	52.6	57.0	46.0	59.2	61.3	67.9	144.6	135.8	24.1
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°	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4	2668.4
2.5°	2672.8	2657.5	2602.7	2556.7	2517.2	2493.1	2464.7	2447.1	2438.4	2431.8	2434.0
5°	2683.8	2646.5	2552.3	2477.8	2420.9	2359.5	2317.9	2293.8	2282.8	2265.3	2265.3
7.5°	2745.1	2685.9	2554.5	2440.6	2342.0	2258.7	2179.9	2151.4	2131.7	2127.3	2122.9
10°	2832.7	2758.2	2578.6	2420.9	2280.6	2166.7	2055.0	1956.4	1879.7	1833.7	1827.1
12.5°	2942.3	2834.9	2615.8	2407.7	2228.1	2026.5	1730.7	1531.4	1397.7	1356.1	1362.7
15°	3043.0	2926.9	2653.1	2396.8	2131.7	1680.4	1345.2	1117.3	1049.4	1042.8	1045.0
17.5°	3163.5	3025.5	2696.9	2381.4	1866.6	1283.8	999.0	937.7	950.8	972.7	970.5
20°	3288.4	3130.7	2749.5	2289.4	1489.8	966.2	882.9	889.5	909.2	928.9	933.3
22.5°	3422.1	3251.2	2810.8	2068.1	1137.0	841.3	836.9	845.7	865.4	887.3	891.7
25°	3606.1	3402.3	2856.8	1778.9	861.0	777.7	786.5	801.8	819.4	843.5	847.8
27.5°	3842.7	3606.1	2880.9	1402.1	744.9	720.8	723.0	744.9	766.8	788.7	788.7
30°	4149.4	3849.3	2832.7	1060.4	687.9	666.0	657.2	670.4	698.9	720.8	723.0
32.5°	4423.3	4079.3	2705.7	810.6	646.3	615.6	593.7	595.9	606.9	620.0	622.2
35°	4697.1	4302.8	2488.8	681.3	602.5	567.4	534.6	517.0	508.3	501.7	508.3
37.5°	5047.6	4581.0	2199.6	620.0	565.2	521.4	475.4	438.2	407.5	387.8	392.2
40°	5499.0	4966.6	1857.8	580.6	530.2	477.6	416.3	368.1	315.5	298.0	289.2
42.5°	6243.8	5551.5	1498.5	547.7	495.1	431.6	354.9	289.2	241.0	223.5	227.8
45°	7420.3	6289.8	1154.6	512.7	460.1	381.2	298.0	227.8	188.4	179.6	184.0
47.5°	8980.2	7245.0	889.5	473.2	416.3	326.4	234.4	179.6	155.5	153.4	151.2
50°	10448.0	8134.5	742.7	429.4	363.7	271.7	192.8	151.2	135.8	133.6	133.6
52.5°	11775.6	8772.0	604.7	379.0	306.7	223.5	162.1	133.6	120.5	113.9	113.9
55°	12956.5	9188.3	490.7	317.7	241.0	177.5	140.2	120.5	105.2	96.4	94.2
57.5°	13848.2	9238.7	368.1	254.1	179.6	138.0	120.5	105.2	87.6	76.7	72.3
60°	14229.4	8802.7	271.7	192.8	133.6	109.5	96.4	85.4	65.7	54.8	52.6
62.5°	13846.0	7954.9	201.6	146.8	103.0	81.1	67.9	63.5	46.0	32.9	30.7
65°	12472.3	6730.2	159.9	111.7	76.7	59.2	43.8	41.6	28.5	15.3	13.1
67.5°	9992.3	5271.1	127.1	83.3	54.8	39.4	28.5	26.3	15.3	4.4	4.4
70°	6498.0	3369.5	103.0	61.3	35.1	26.3	17.5	13.1	8.8	2.2	0.0
72.5°	3213.9	1575.2	83.3	48.2	24.1	13.1	6.6	4.4	6.6	0.0	0.0
75°	1246.6	560.8	61.3	32.9	13.1	6.6	4.4	0.0	2.2	0.0	0.0
77.5°	414.1	186.2	37.2	17.5	8.8	4.4	0.0	0.0	0.0	0.0	0.0
80°	153.4	72.3	19.7	11.0	4.4	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	61.3	28.5	13.1	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.7	17.5	8.8	6.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.9	13.1	8.8	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
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)