

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: P458101

Luminaire Tested: **GALN-SA9C-727-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458101  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9C-727-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41732 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

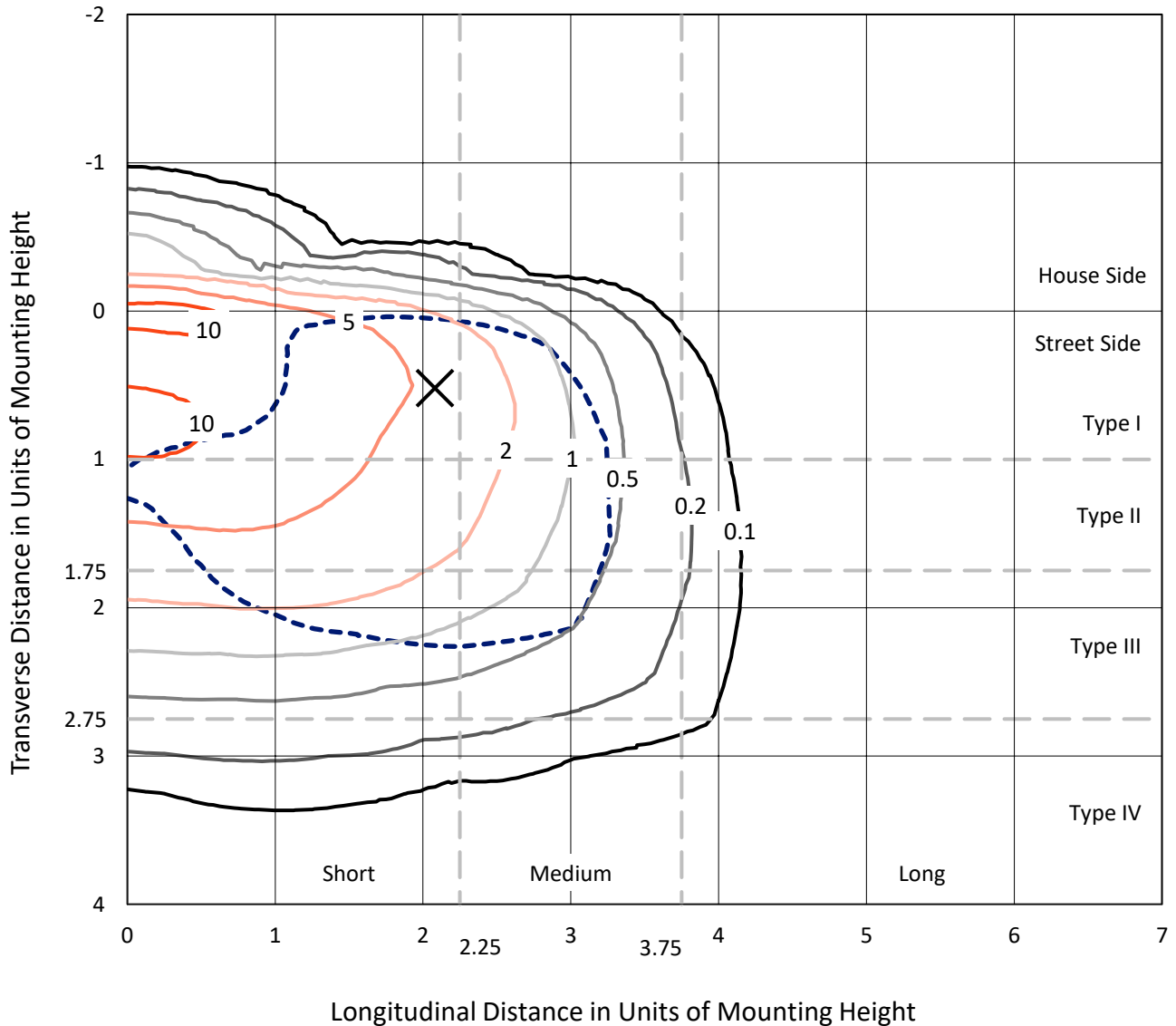
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

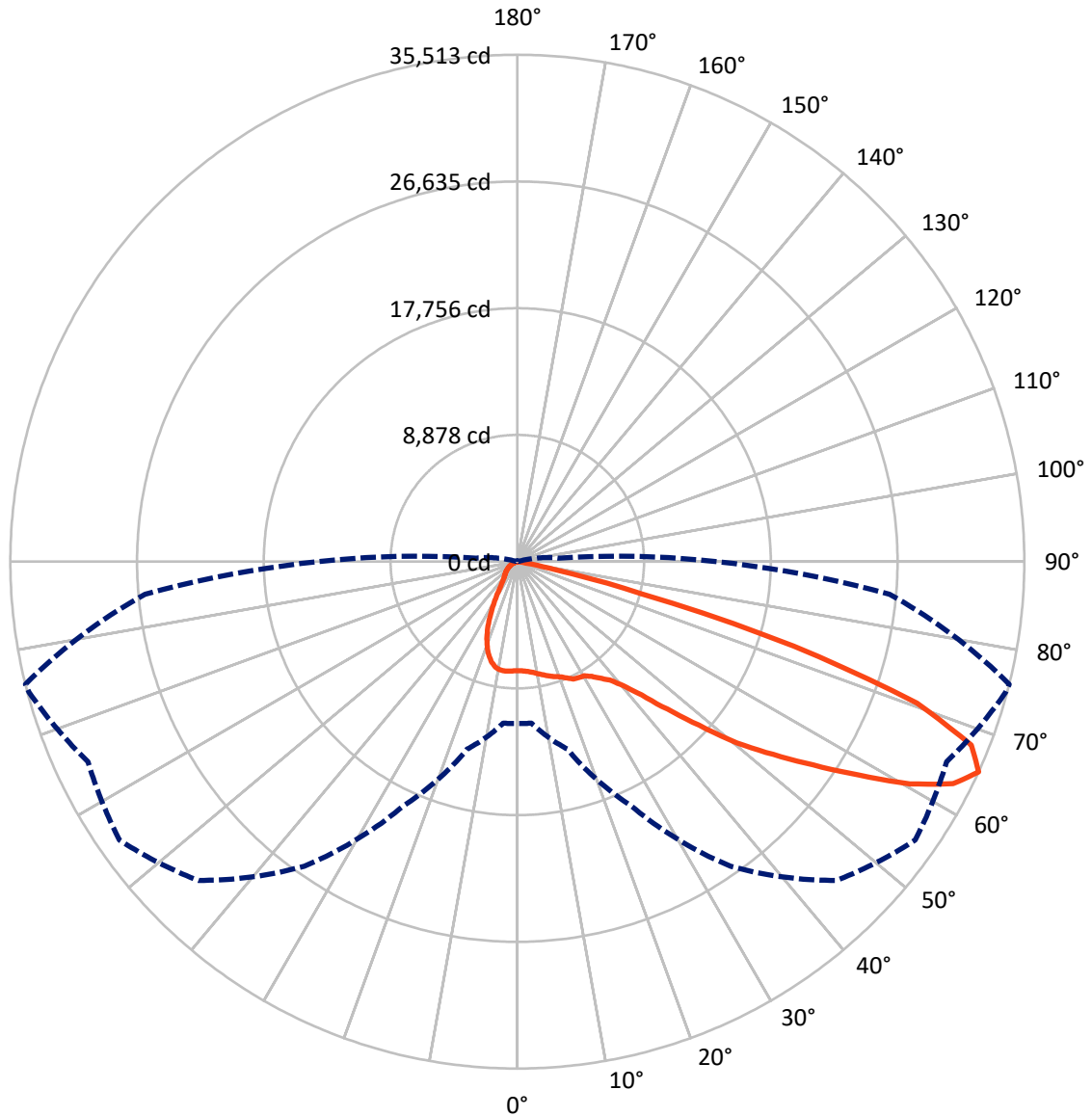
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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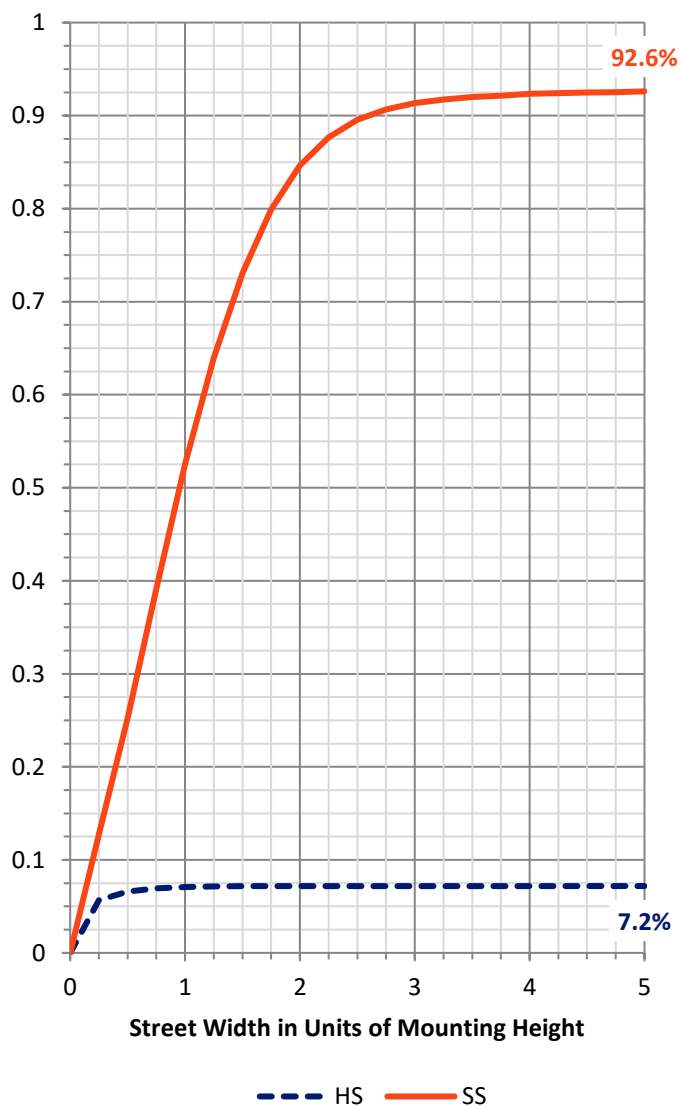
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3013.9	0.0	3013.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	38718.1	0.0	38718.1
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	41732.0	0.0	41732.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	628.9	1.5
10°-20°	1400.2	3.4
20°-30°	2256.3	5.4
30°-40°	3923.2	9.4
40°-50°	6482.9	15.5
50°-60°	10014.7	24.0
60°-70°	12229.4	29.3
70°-80°	4641.4	11.1
80°-90°	154.9	0.4
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°	41732.0	100.0
0°-180°	41732.0	100.0

**Coefficient of Utilization**



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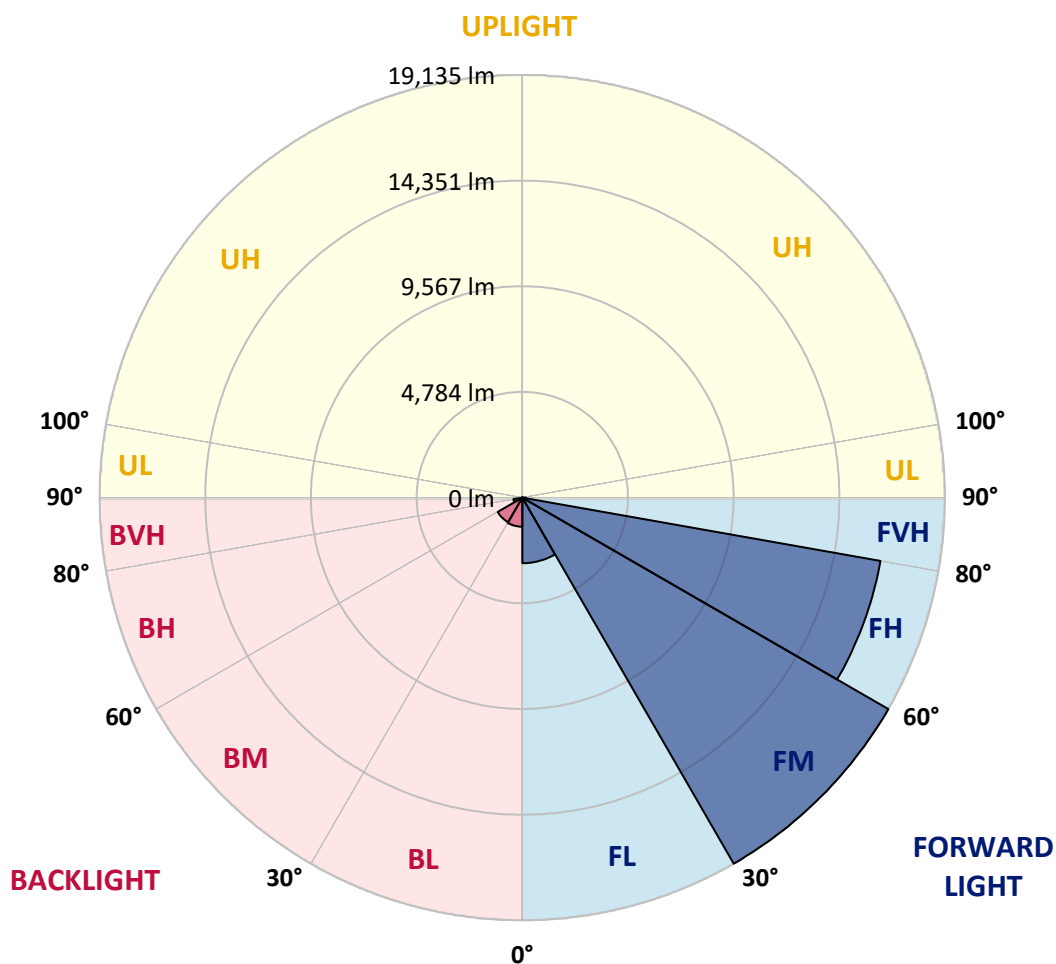
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2968.7	7.1			
FM	(30°-60°)	19134.8	45.9			
FH	(60°-80°)	16461.9	39.4			G5
FVH	(80°-90°)	152.8	0.4			G2/225
BL	(0°-30°)	1316.7	3.2	B3/2500		
BM	(30°-60°)	1286.1	3.1	B2/2500		
BH	(60°-80°)	408.9	1.0	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1
2.5°	7295.3	7298.2	7315.9	7360.1	7427.9	7483.8	7531.0	7607.6	7660.6	7666.5	7684.2
5°	6791.4	6756.1	6791.4	6906.4	7009.5	7165.6	7357.2	7548.7	7719.6	7731.3	7813.8
7.5°	6225.7	6255.2	6311.2	6429.0	6623.5	6862.2	7139.1	7480.9	7805.0	7834.5	7996.5
10°	5651.2	5716.0	5807.3	5987.1	6258.1	6567.5	6944.7	7433.8	7940.5	7981.8	8261.7
12.5°	5120.8	5150.3	5262.3	5503.9	5839.8	6275.8	6797.3	7407.2	8090.8	8140.9	8544.6
15°	4714.2	4752.5	4849.8	5067.8	5442.0	6001.8	6676.5	7398.4	8238.1	8308.8	8827.4
17.5°	4637.6	4661.2	4702.4	4849.8	5176.8	5783.8	6567.5	7395.5	8379.6	8465.0	9089.6
20°	4952.9	4932.3	4891.0	4876.3	5056.0	5615.8	6488.0	7419.0	8515.1	8612.3	9366.6
22.5°	5742.5	5769.0	5527.4	5241.6	5182.7	5589.3	6476.2	7531.0	8730.2	8845.1	9676.0
25°	7419.0	7215.7	6838.6	6155.0	5639.4	5751.4	6608.8	7796.2	8980.6	9107.3	9955.9
27.5°	9272.3	9210.4	8624.1	7498.6	6538.1	6093.1	6844.5	7999.5	9063.1	9192.8	10115.0
30°	11093.2	11166.8	10495.1	9251.7	7843.3	6726.6	7065.5	8076.1	9136.8	9272.3	10318.3
32.5°	12781.5	12869.9	12280.6	11049.0	9381.3	7822.7	7445.5	8373.7	9446.1	9584.6	10657.1
35°	14110.3	14122.1	13677.2	12696.0	11060.8	9154.5	8267.6	8895.2	9864.5	10026.6	11016.6
37.5°	15330.1	15312.4	14790.9	13945.3	12460.3	10477.4	9301.8	9496.2	10341.9	10509.8	11535.1
40°	16234.6	16246.4	16078.5	15283.0	13765.6	11700.1	10120.9	10059.0	11143.3	11405.5	12289.4
42.5°	16838.7	16947.7	17030.2	16626.5	15406.7	13205.8	11379.0	11264.1	12534.0	12752.0	13356.0
45°	17327.8	17522.2	17934.7	17914.1	16983.0	15053.1	13105.6	12869.9	14505.1	14737.9	14714.3
47.5°	17684.3	17881.7	18565.2	18977.7	18465.1	16844.6	15277.1	15073.8	16859.3	17112.7	16214.0
50°	17867.0	18102.7	18974.8	19773.3	19623.0	18571.1	17752.0	17763.8	19702.6	19947.1	17952.4
52.5°	17439.7	17746.1	19192.8	20630.7	20922.4	20224.1	20070.9	20459.8	22233.5	22442.7	19522.8
55°	16075.5	16461.5	18895.2	21361.4	22428.0	22174.6	22704.9	23297.2	25000.2	25135.7	21134.5
57.5°	15212.2	15621.8	18017.2	21983.1	24237.1	24626.0	25465.7	25898.8	27855.2	28200.0	22984.8
60°	14484.5	14805.6	17295.4	22115.7	26075.6	27625.4	28441.6	28889.4	31379.1	31603.1	25020.8
62.5°	13273.5	13641.8	16075.5	21190.5	27000.8	30026.7	31718.0	31517.6	34104.5	34260.7	26270.1
65°	11326.0	11358.4	13600.6	18865.8	26046.1	31585.4	34019.1	33179.4	35406.9	35512.9	26172.8
67.5°	8453.2	8765.5	10462.7	14829.2	22000.7	30253.6	34764.5	33223.6	34584.8	34290.2	24095.6
70°	5444.9	5683.6	7092.0	10282.9	15863.4	25247.7	32292.5	30946.0	30353.8	29699.7	19723.2
72.5°	2513.3	2819.7	4213.3	5875.1	9407.8	17984.8	26214.1	25141.6	21847.5	20232.9	12536.9
75°	1096.1	1172.7	2080.2	3099.6	4410.8	9511.0	17283.6	15607.1	9867.5	9013.0	5017.7
77.5°	668.8	718.9	1090.2	1661.8	1732.5	3624.1	9310.6	6809.1	3049.5	2690.1	1361.2
80°	453.7	509.7	792.6	869.2	592.2	1010.6	3494.4	1817.9	615.8	589.3	291.7
82.5°	221.0	279.9	586.3	486.2	256.3	324.1	1016.5	388.9	179.7	167.9	103.1
85°	32.4	56.0	330.0	318.2	114.9	76.6	179.7	97.2	61.9	58.9	47.1
87.5°	0.0	0.0	112.0	50.1	11.8	11.8	20.6	20.6	23.6	20.6	23.6
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°	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1
2.5°	7693.0	7707.8	7651.8	7572.2	7486.8	7401.3	7280.5	7171.5	7106.7	7145.0	7050.7
5°	7831.5	7819.7	7672.4	7430.8	7109.7	6723.7	6340.6	6013.6	5907.5	5748.4	5730.7
7.5°	8023.0	7990.6	7678.3	7124.4	6399.6	5674.8	4967.6	4499.1	4231.0	4004.2	4010.0
10°	8291.2	8196.9	7610.5	6585.2	5391.9	4298.8	3397.2	2778.5	2510.3	2424.9	2357.1
12.5°	8568.1	8385.4	7422.0	5857.4	4198.6	2937.6	2065.4	1688.3	1523.3	1470.3	1464.4
15°	8815.6	8526.9	7092.0	4982.4	3052.5	1876.9	1408.4	1284.6	1264.0	1267.0	1264.0
17.5°	9060.2	8638.8	6635.3	4054.2	2074.3	1346.5	1211.0	1181.5	1190.3	1202.1	1199.2
20°	9263.5	8662.4	6051.9	3093.7	1467.3	1181.5	1137.3	1131.4	1140.3	1149.1	1149.1
22.5°	9484.5	8680.1	5359.5	2142.0	1199.2	1099.0	1075.4	1075.4	1087.2	1099.0	1102.0
25°	9649.5	8582.9	4531.6	1538.0	1057.8	1019.5	1007.7	1010.6	1022.4	1028.3	1025.3
27.5°	9676.0	8308.8	3653.5	1178.6	960.5	922.2	910.4	922.2	907.5	916.3	910.4
30°	9699.5	7961.2	2763.7	992.9	872.1	813.2	795.5	777.8	766.1	751.3	748.4
32.5°	9773.2	7551.6	2018.3	892.8	789.6	724.8	683.6	633.5	595.2	583.4	580.4
35°	9805.6	7059.6	1482.0	813.2	716.0	645.3	571.6	500.9	444.9	424.3	439.0
37.5°	9929.4	6582.3	1149.1	754.3	651.2	562.8	468.5	380.1	327.1	315.3	321.2
40°	10182.7	6063.7	963.5	704.2	595.2	486.2	371.2	285.8	250.4	238.7	235.7
42.5°	10589.4	5548.1	857.4	657.0	539.2	409.5	291.7	223.9	194.5	185.6	185.6
45°	11084.3	5053.1	783.7	607.0	480.3	330.0	229.8	179.7	162.1	156.2	156.2
47.5°	11735.5	4620.0	721.9	556.9	415.4	262.2	185.6	156.2	144.4	147.3	150.3
50°	12395.5	4298.8	654.1	500.9	341.8	215.1	159.1	138.5	135.5	138.5	138.5
52.5°	12893.4	4110.2	562.8	424.3	268.1	179.7	141.4	129.6	126.7	120.8	120.8
55°	13565.2	4069.0	447.9	344.7	212.1	150.3	126.7	117.9	109.0	103.1	100.2
57.5°	14428.5	4116.1	344.7	268.1	165.0	123.7	112.0	97.2	85.4	73.7	73.7
60°	14964.8	4010.0	268.1	206.2	120.8	100.2	85.4	70.7	56.0	47.1	44.2
62.5°	14793.9	3562.2	212.1	153.2	85.4	73.7	56.0	47.1	32.4	23.6	20.6
65°	13912.9	2875.7	170.9	106.1	61.9	44.2	29.5	29.5	14.7	2.9	0.0
67.5°	12177.5	2130.2	135.5	70.7	35.4	20.6	14.7	8.8	0.0	0.0	0.0
70°	9911.7	1538.0	106.1	44.2	20.6	14.7	5.9	2.9	0.0	0.0	0.0
72.5°	6293.5	881.0	82.5	26.5	14.7	5.9	0.0	0.0	0.0	0.0	0.0
75°	2433.7	344.7	56.0	17.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	689.5	162.1	32.4	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	179.7	70.7	17.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	85.4	29.5	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.1	11.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.6	2.9	0.0	0.0	0.0	0.0	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)