

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: P534029

Luminaire Tested: **GALN-SA9C-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534029  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-730-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33880 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

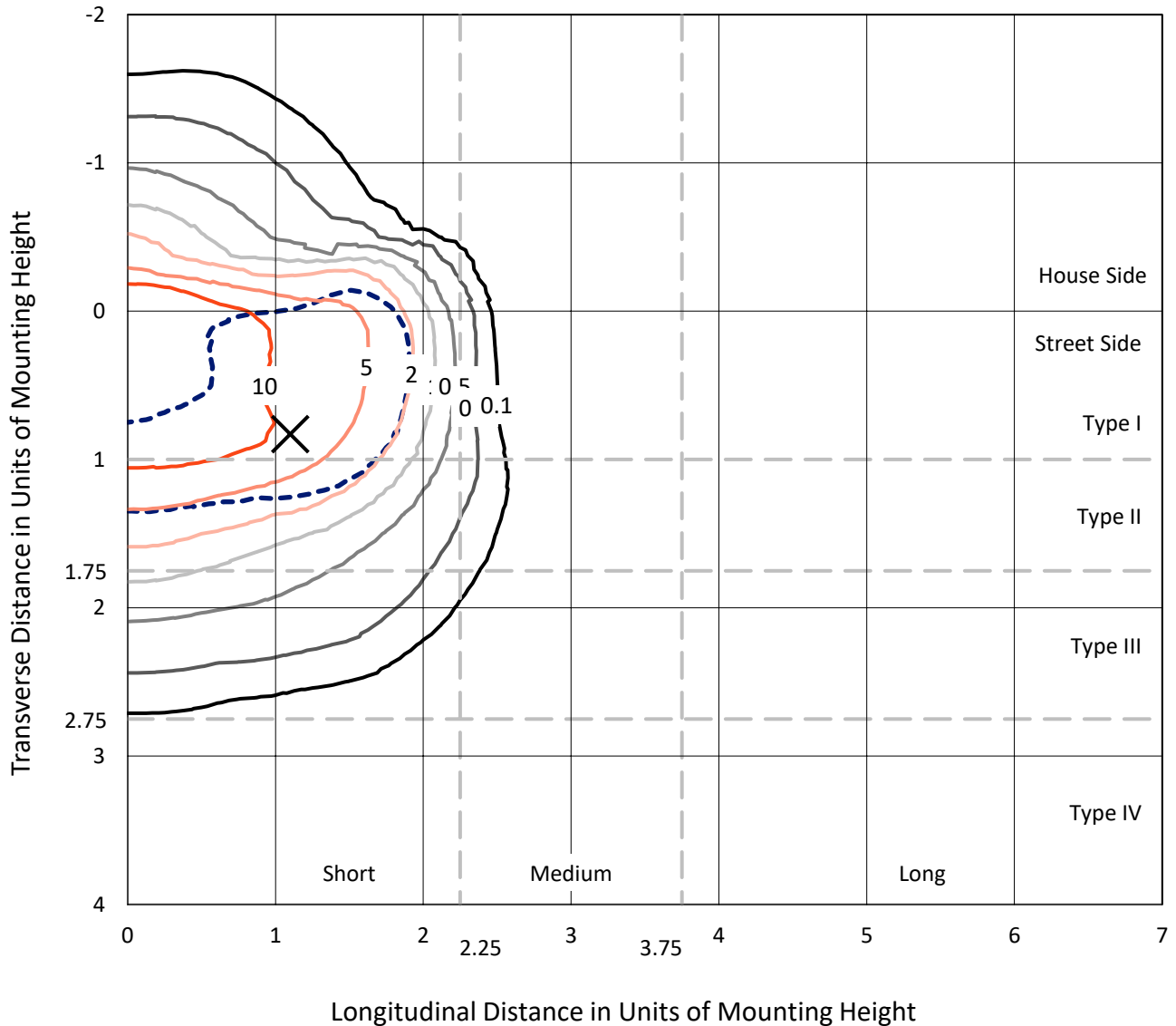
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

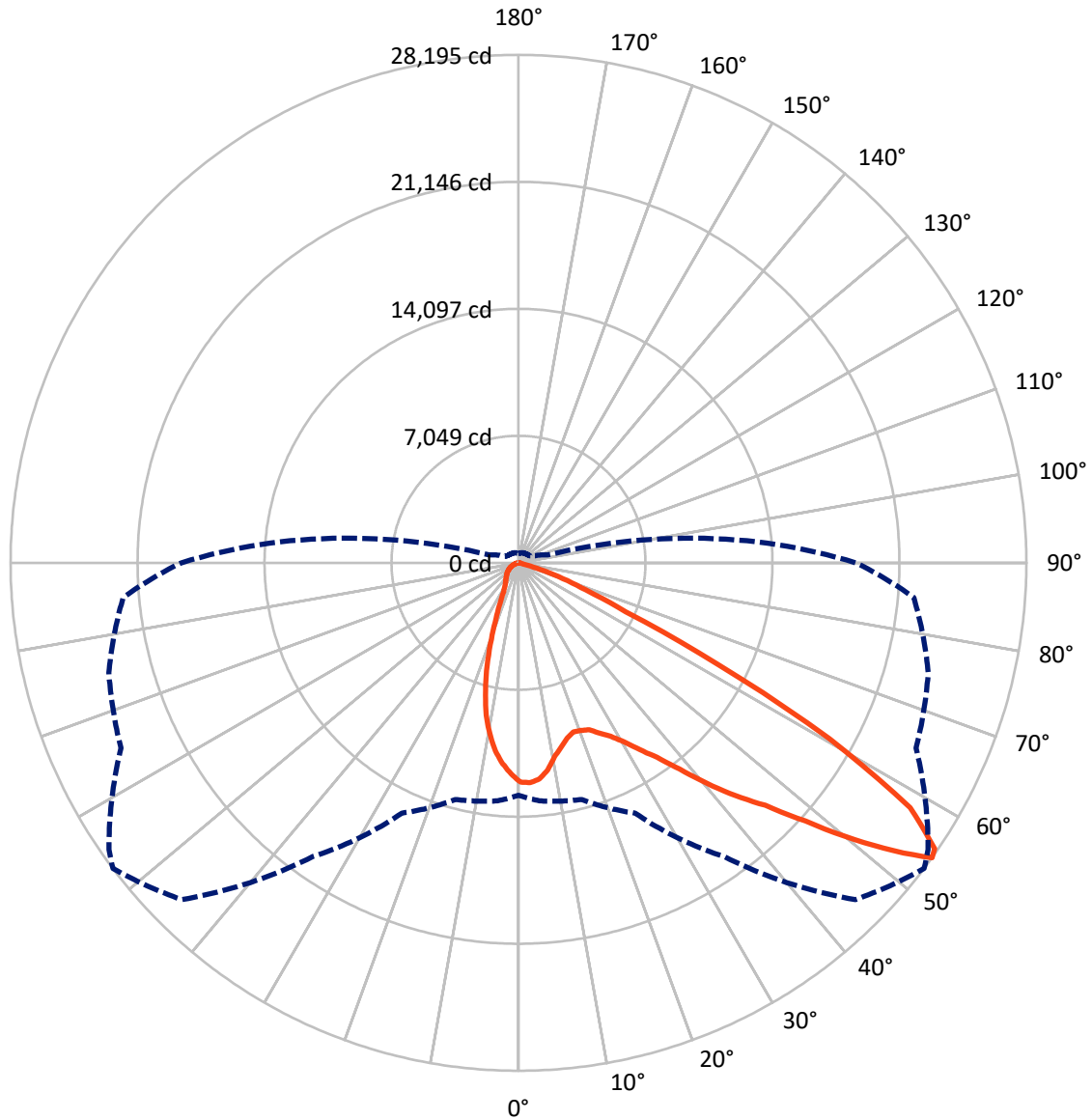
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical



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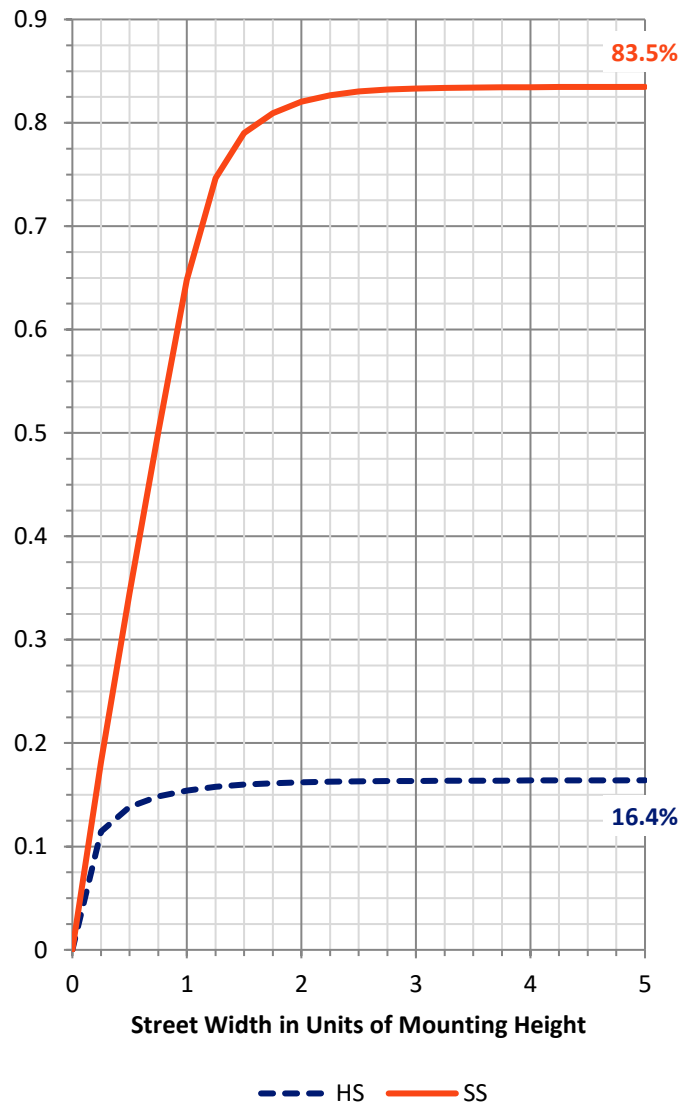
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5605.5	0.0	5605.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	28274.5	0.0	28274.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	33880.0	0.0	33880.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1044.1	3.1
10°-20°	2393.7	7.1
20°-30°	3402.0	10.0
30°-40°	5250.2	15.5
40°-50°	8231.9	24.3
50°-60°	9562.5	28.2
60°-70°	3613.3	10.7
70°-80°	343.6	1.0
80°-90°	38.7	0.1
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°	33880.0	100.0
0°-180°	33880.0	100.0

**Coefficient of Utilization**



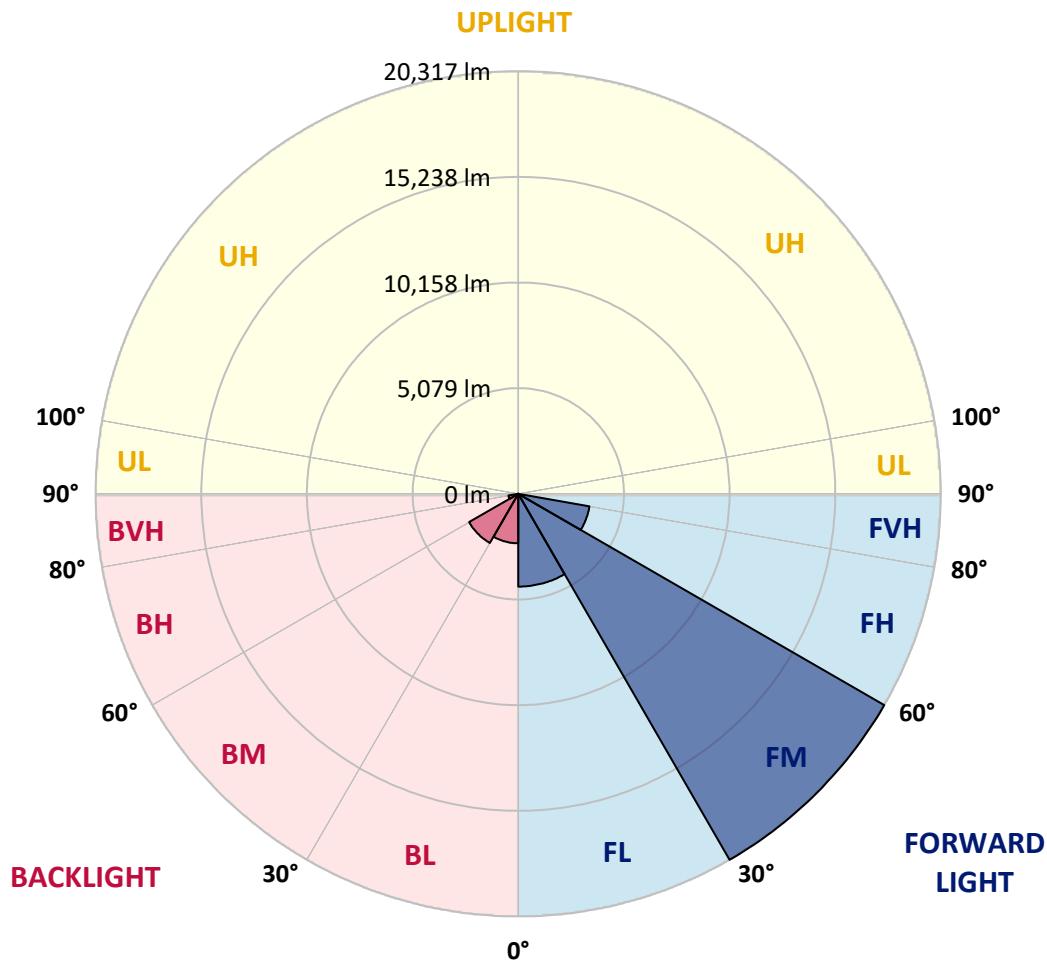
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4461.1	13.2			
FM (30°-60°)	20316.8	60.0			
FH (60°-80°)	3476.6	10.3			G2/5000
FVH (80°-90°)	20.0	0.1			G1/100
BL (0°-30°)	2378.8	7.0	B3/2500		
BM (30°-60°)	2727.8	8.1	B3/5000		
BH (60°-80°)	480.3	1.4	B1/500		G1/500
BVH (80°-90°)	18.7	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	12169.1	12169.1	12169.1	12169.1	12169.1	12169.1	12169.1	12169.1	12169.1	12169.1	12169.1
2.5°	12106.0	11998.7	12106.0	12118.6	12194.4	12263.8	12219.6	12320.6	12263.8	12200.7	12181.7
5°	11127.7	11272.9	11279.2	11506.4	11455.9	11872.5	12055.5	12005.0	12314.3	12295.4	12251.2
7.5°	10250.3	10193.5	10269.3	10534.4	10868.9	11348.6	11613.7	11607.4	12049.2	12364.8	12333.2
10°	9436.1	9429.8	9587.6	9795.9	10079.9	10584.9	10950.9	11134.0	11822.0	12301.7	12371.1
12.5°	8887.0	8861.7	9032.2	9202.6	9650.7	10042.1	10509.1	10597.5	11386.5	12080.8	12194.4
15°	8527.2	8584.0	8596.7	8924.9	9208.9	9726.5	10092.5	10275.6	11184.5	11904.0	12339.5
17.5°	8464.1	8539.8	8546.2	8817.6	9120.5	9556.0	9877.9	10124.1	11014.1	11992.4	12345.9
20°	8590.3	8546.2	8584.0	8754.4	9051.1	9467.7	9934.8	10016.8	10957.3	12036.6	12415.3
22.5°	8950.1	8937.5	8842.8	8981.7	9190.0	9625.5	10067.3	10193.5	11121.4	12263.8	12472.1
25°	9347.8	9417.2	9328.8	9309.9	9455.1	9884.3	10471.3	10635.4	11670.5	12674.1	12648.8
27.5°	10092.5	10023.1	10023.1	9934.8	9896.9	10105.2	10906.8	11178.2	12282.7	13204.3	12850.8
30°	10805.8	10881.5	10824.7	10856.3	10603.8	10584.9	11525.3	11859.8	13368.4	14012.2	13280.0
32.5°	11935.6	11834.6	11929.3	11847.2	11512.7	11171.9	12364.8	12711.9	14681.2	14940.0	13923.8
35°	12876.0	12831.9	13235.8	13223.2	12680.4	12345.9	13254.8	13772.3	15596.4	16050.9	14681.2
37.5°	14214.1	14132.1	14592.9	14813.8	14327.8	13829.1	14529.7	15129.4	16448.5	16940.8	15457.6
40°	15590.1	15798.4	16417.0	16783.0	16265.5	15602.7	16088.7	16271.8	17016.6	17521.5	15987.8
42.5°	17332.2	17635.1	18266.3	18581.9	18537.7	17818.2	17673.0	17666.7	17426.8	17357.4	16379.1
45°	19004.8	18891.2	19863.2	20551.2	21106.6	20898.3	19200.5	19011.1	18077.0	17603.6	16480.1
47.5°	19737.0	19699.1	20361.8	21586.3	23479.8	23738.6	21422.2	20690.0	19175.2	18638.7	17029.2
50°	18790.2	18985.9	19642.3	20999.3	23902.7	25878.3	24148.9	23164.3	20456.5	19901.1	18329.4
52.5°	15697.4	15830.0	16454.8	18177.9	22463.6	27140.7	26762.0	26193.9	22810.8	21889.3	20595.4
54°	12907.6	13261.1	13601.9	15331.3	19901.1	26440.1	28194.8	27759.2	24344.6	23543.0	22021.8
55°	11241.3	11449.6	11695.7	13418.9	18127.5	25253.5	28030.6	28068.5	25373.4	24060.5	22981.2
57.5°	8211.6	8356.8	8104.3	8868.1	12446.8	20507.0	25638.5	26661.0	26762.0	24836.9	23568.2
60°	6273.9	6337.0	6053.0	6172.9	7738.3	14075.3	19831.6	21062.4	24142.6	21706.2	19964.2
62.5°	4866.4	4879.0	4872.7	5081.0	5333.5	8281.1	12402.7	13494.6	16644.2	15413.4	13557.7
65°	3585.1	3528.3	3629.3	4260.5	4550.8	5207.2	6532.7	7328.0	9044.8	7637.3	5459.7
67.5°	2322.7	2341.7	2442.7	3168.5	3900.7	3995.4	4020.6	3957.5	3963.8	2183.9	1369.7
70°	1394.9	1426.5	1394.9	1792.5	2789.8	2865.6	2619.4	2556.3	1994.5	517.6	511.3
72.5°	826.8	782.7	700.6	770.0	1161.4	1388.6	1249.7	1243.4	782.7	303.0	303.0
75°	347.1	315.6	258.8	233.5	309.3	296.7	296.7	265.1	208.3	202.0	189.4
77.5°	69.4	69.4	50.5	56.8	75.7	88.4	107.3	107.3	126.2	126.2	119.9
80°	0.0	6.3	18.9	37.9	56.8	82.1	94.7	94.7	107.3	107.3	88.4
82.5°	0.0	6.3	18.9	37.9	50.5	75.7	94.7	94.7	107.3	113.6	94.7
85°	0.0	6.3	18.9	31.6	50.5	63.1	63.1	56.8	44.2	37.9	25.2
87.5°	0.0	0.0	6.3	12.6	6.3	12.6	12.6	12.6	12.6	12.6	12.6
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°	12169.1	12169.1	12169.1	12169.1	12169.1	12169.1	12169.1	12169.1	12169.1	12169.1	12169.1
2.5°	12225.9	12219.6	12068.1	11822.0	11765.2	11556.9	11531.6	11405.4	11474.8	11241.3	11216.0
5°	12124.9	12049.2	11866.2	11708.4	11247.6	10919.4	10660.6	10345.0	10162.0	10193.5	10073.6
7.5°	12270.1	12074.4	11752.5	11203.4	10641.7	10067.3	9758.0	9114.2	8880.7	8533.5	8483.0
10°	12118.6	11973.5	11474.8	10565.9	9789.6	8962.7	8236.9	7523.6	6980.8	6747.3	6696.8
12.5°	12106.0	11853.5	11020.4	10010.5	8887.0	7700.4	6646.3	5756.3	5219.8	4916.9	4847.5
15°	11910.3	11607.4	10509.1	9152.1	7599.4	6122.4	4973.7	4115.3	3705.0	3528.3	3578.8
17.5°	11929.3	11474.8	9997.9	8243.2	6330.7	4494.0	3395.7	2953.9	2846.6	2890.8	2890.8
20°	11910.3	11178.2	9379.3	7195.4	4847.5	3118.0	2493.2	2335.4	2404.8	2543.7	2512.1
22.5°	11809.4	11039.3	8811.3	6090.9	3566.2	2310.1	2000.8	2007.1	2114.4	2284.9	2322.7
25°	11885.1	10730.0	8091.7	4973.7	2600.5	1843.0	1735.7	1779.9	1893.5	2019.8	2045.0
27.5°	11828.3	10509.1	7340.6	3862.8	1899.8	1584.3	1577.9	1628.4	1678.9	1773.6	1773.6
30°	11891.4	10307.1	6602.1	2871.9	1565.3	1451.7	1426.5	1464.3	1514.8	1533.8	1527.5
32.5°	12124.9	10155.7	5750.0	2146.0	1382.3	1325.5	1325.5	1325.5	1319.2	1344.4	1350.7
35°	12636.2	10180.9	4998.9	1660.0	1262.4	1218.2	1199.2	1174.0	1161.4	1174.0	1180.3
37.5°	13191.6	10168.3	4222.6	1413.8	1174.0	1136.1	1091.9	1054.1	1047.8	1060.4	1041.4
40°	13437.8	10288.2	3503.0	1268.7	1091.9	1047.8	978.3	946.8	953.1	965.7	953.1
42.5°	13772.3	10326.1	3036.0	1155.1	1016.2	946.8	902.6	864.7	858.4	877.3	871.0
45°	13766.0	10111.5	2543.7	1091.9	946.8	871.0	814.2	782.7	782.7	795.3	801.6
47.5°	14170.0	10079.9	2183.9	1035.1	896.3	820.5	751.1	725.9	719.5	719.5	706.9
50°	15110.4	10521.7	1906.2	972.0	833.2	763.7	706.9	675.4	650.1	637.5	631.2
52.5°	16947.1	11897.7	1691.6	896.3	763.7	706.9	656.4	631.2	599.6	568.1	561.7
54°	18727.1	13317.9	1678.9	833.2	706.9	669.0	624.9	612.2	574.4	530.2	517.6
55°	19528.7	14144.7	1723.1	782.7	669.0	643.8	605.9	593.3	555.4	504.9	498.6
57.5°	20191.4	14466.6	1697.9	650.1	605.9	599.6	568.1	549.1	504.9	435.5	422.9
60°	16252.9	10938.3	1218.2	574.4	555.4	542.8	517.6	504.9	448.1	372.4	366.1
62.5°	10269.3	6292.9	776.3	504.9	486.0	467.1	435.5	422.9	372.4	296.7	277.7
65°	4374.1	2606.8	523.9	448.1	416.6	385.0	359.8	340.8	296.7	220.9	214.6
67.5°	1136.1	927.8	435.5	391.3	347.1	303.0	284.0	252.5	202.0	151.5	145.2
70°	511.3	467.1	366.1	328.2	277.7	233.5	208.3	176.7	132.5	101.0	94.7
72.5°	303.0	296.7	277.7	246.2	208.3	176.7	151.5	119.9	88.4	56.8	56.8
75°	189.4	183.0	189.4	170.4	145.2	132.5	113.6	82.1	50.5	25.2	25.2
77.5°	113.6	113.6	113.6	107.3	101.0	101.0	82.1	50.5	25.2	6.3	6.3
80°	88.4	88.4	94.7	88.4	88.4	88.4	69.4	37.9	12.6	0.0	0.0
82.5°	88.4	94.7	107.3	101.0	88.4	75.7	63.1	37.9	12.6	0.0	0.0
85°	25.2	18.9	31.6	44.2	63.1	56.8	44.2	31.6	12.6	0.0	0.0
87.5°	12.6	12.6	12.6	12.6	6.3	6.3	6.3	6.3	6.3	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)