

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: P452179

Luminaire Tested: **GALN-SA3A-760-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452179  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-760-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10205 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

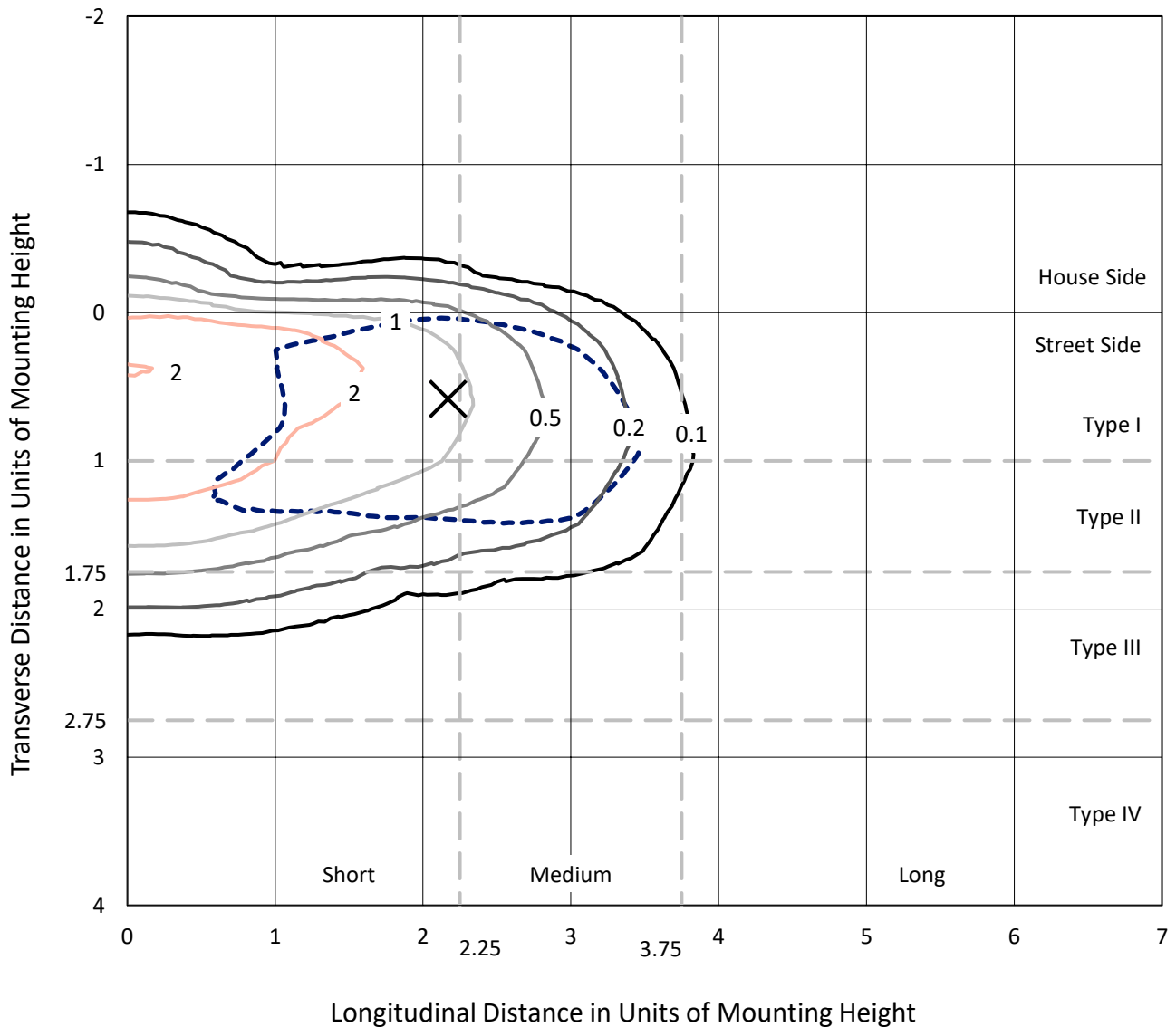
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

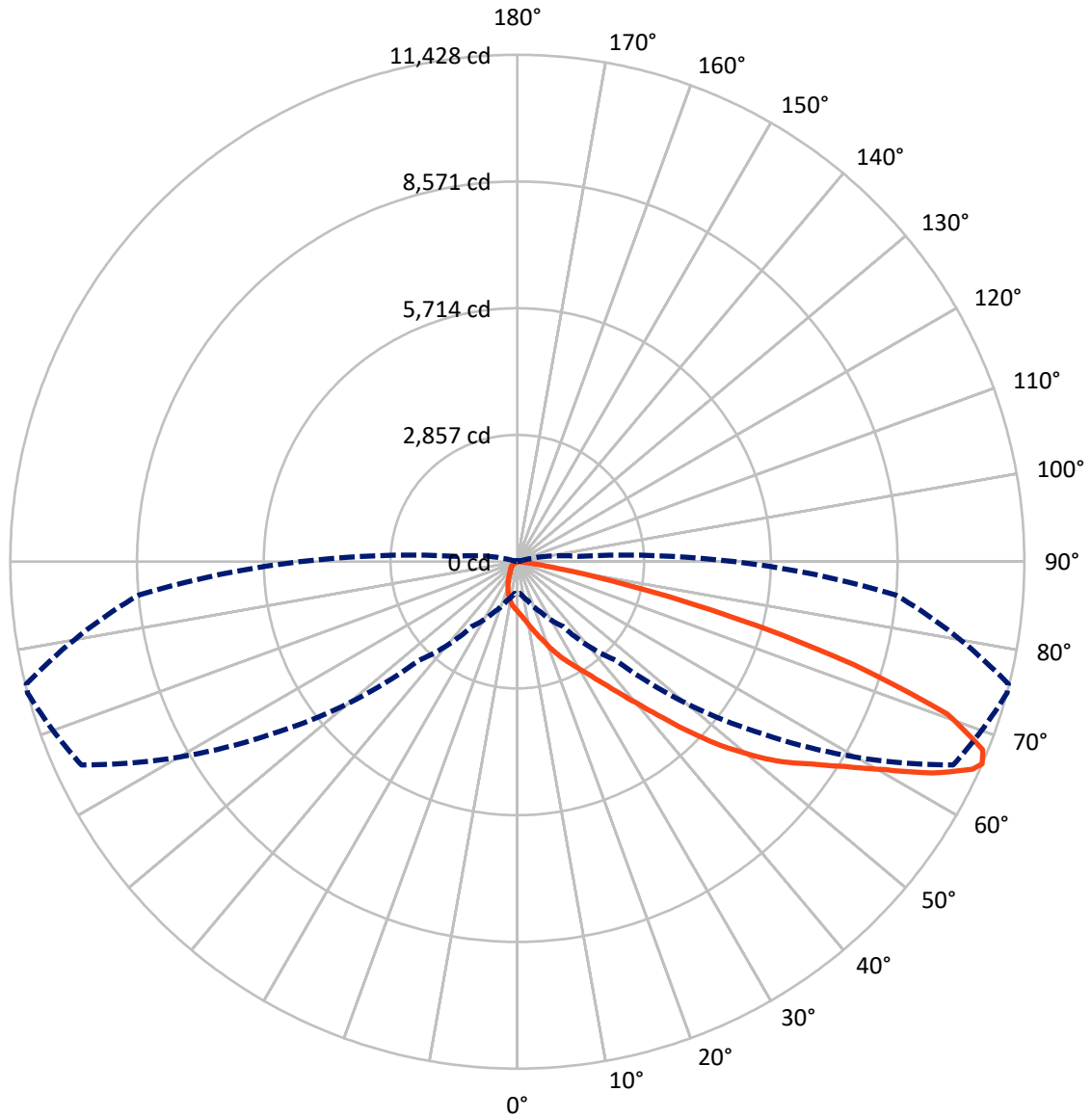
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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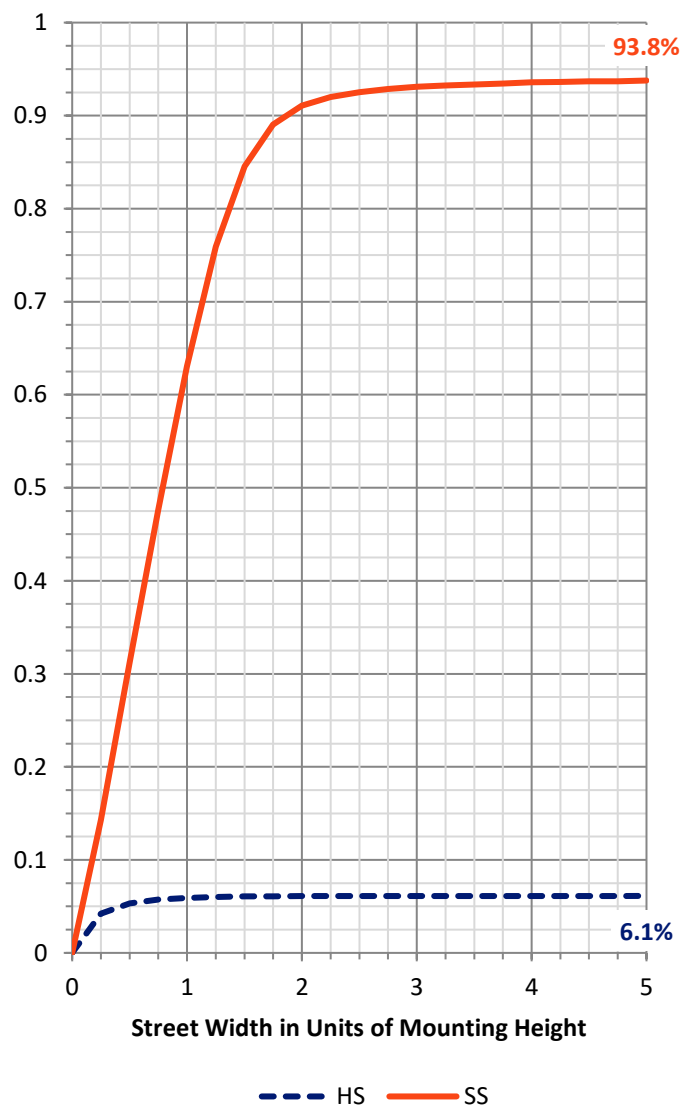
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	630.0	0.0	630.0
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	9575.0	0.0	9575.0
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	10205.0	0.0	10205.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.6	1.1
10°-20°	316.8	3.1
20°-30°	547.0	5.4
30°-40°	986.7	9.7
40°-50°	1782.6	17.5
50°-60°	2779.0	27.2
60°-70°	2640.0	25.9
70°-80°	989.4	9.7
80°-90°	55.8	0.5
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°	10205.0	100.0
0°-180°	10205.0	100.0

**Coefficient of Utilization**



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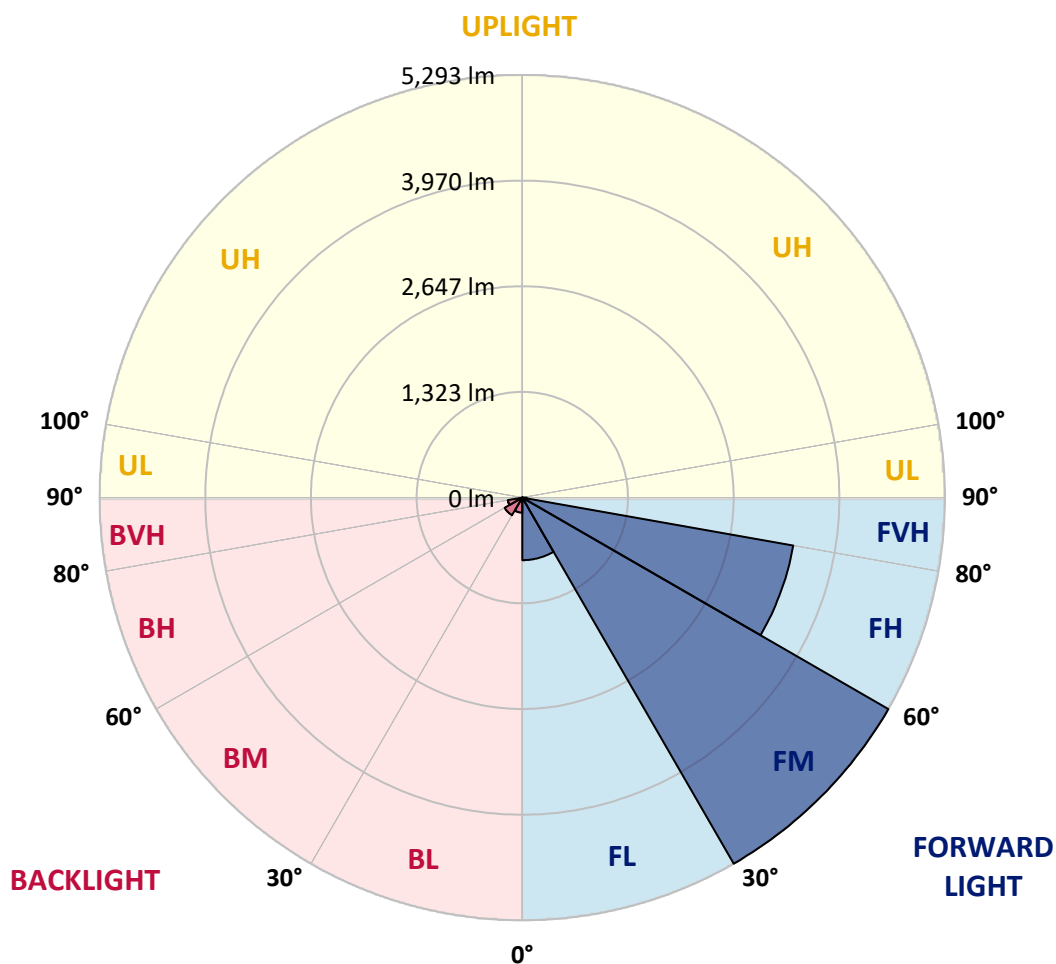
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	783.3	7.7			
FM (30°-60°)	5293.3	51.9			
FH (60°-80°)	3445.4	33.8			G2/5000
FVH (80°-90°)	52.9	0.5			G1/100
BL (0°-30°)	188.2	1.8	B1/500		
BM (30°-60°)	255.0	2.5	B1/1000		
BH (60°-80°)	184.0	1.8	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
2.5°	1333.3	1316.7	1322.0	1314.5	1297.1	1271.5	1248.8	1216.4	1183.9	1178.6	1142.4
5°	1509.2	1504.6	1498.6	1476.7	1464.6	1425.4	1378.6	1322.8	1255.6	1243.5	1177.9
7.5°	1629.1	1626.9	1629.9	1618.6	1608.0	1572.5	1522.7	1446.5	1342.4	1335.6	1226.2
10°	1668.4	1674.4	1685.7	1703.8	1720.4	1709.1	1671.4	1576.3	1454.8	1435.2	1281.3
12.5°	1645.7	1652.5	1679.7	1728.0	1781.6	1812.5	1797.4	1728.0	1574.0	1558.2	1343.1
15°	1587.6	1595.9	1634.4	1709.1	1804.9	1892.5	1930.2	1880.4	1712.9	1687.2	1417.8
17.5°	1501.6	1513.7	1568.8	1667.6	1798.9	1949.8	2056.2	2039.6	1860.8	1836.6	1499.3
20°	1436.7	1445.8	1492.6	1605.7	1773.3	1981.5	2176.2	2223.0	2043.4	2001.9	1595.2
22.5°	1479.7	1482.7	1498.6	1566.5	1727.2	1989.8	2281.8	2413.9	2237.3	2200.3	1694.8
25°	1690.2	1660.1	1644.2	1629.1	1717.4	1982.3	2377.7	2613.1	2430.5	2391.3	1793.6
27.5°	2022.3	2008.7	1928.7	1821.5	1801.2	1992.1	2441.1	2801.7	2612.3	2570.1	1890.2
30°	2383.7	2360.3	2311.3	2154.3	1996.6	2061.5	2487.1	2985.1	2827.4	2771.6	1978.5
32.5°	2715.7	2730.8	2657.6	2496.1	2313.5	2209.4	2546.7	3185.1	3074.1	3004.7	2081.1
35°	3102.8	3133.0	3020.6	2865.9	2652.3	2476.5	2662.9	3410.7	3387.3	3299.8	2239.6
37.5°	3495.9	3514.1	3445.4	3228.1	3035.7	2816.1	2881.7	3689.1	3772.9	3698.2	2429.0
40°	3826.5	3851.4	3800.8	3607.6	3402.4	3209.2	3199.4	3992.5	4231.7	4154.7	2711.2
42.5°	4079.2	4098.1	4099.6	3963.0	3778.2	3690.6	3604.6	4379.6	4806.6	4717.6	3038.7
45°	4398.4	4425.6	4409.7	4316.9	4178.8	4163.0	4118.5	4847.4	5494.8	5382.4	3463.5
47.5°	4891.9	4910.0	4870.8	4761.4	4621.0	4645.9	4619.5	5371.8	6196.6	6100.0	3903.4
50°	5234.5	5264.7	5320.5	5364.3	5262.4	5170.4	5091.9	5861.5	6862.9	6776.1	4353.1
52.5°	5230.7	5280.5	5457.1	5677.4	5900.0	5872.1	5646.5	6402.6	7499.0	7391.8	4775.7
55°	4878.3	4974.9	5234.5	5625.4	6241.9	6549.0	6446.3	7028.9	8048.3	7975.9	5265.4
57.5°	4150.9	4209.8	4570.5	5116.8	6050.9	6867.4	7373.0	7877.8	8707.1	8673.1	6026.0
60°	2791.9	2818.3	3282.4	3957.8	5151.5	6549.7	8052.1	8904.7	9518.2	9501.6	6914.2
62.5°	1599.7	1611.0	1947.6	2517.3	3665.7	5550.7	8109.4	10171.7	10490.9	10499.9	7941.9
65°	861.0	867.0	1138.7	1477.5	2230.5	3956.2	7292.2	10865.9	11277.1	11294.5	8578.8
66°	743.3	714.6	906.2	1259.4	1774.8	3148.8	6775.3	10841.0	11428.1	11409.2	8556.1
67.5°	565.2	590.8	723.6	968.1	1315.2	2238.8	5593.7	10358.8	11313.4	11254.5	8208.3
70°	404.5	415.0	515.4	690.4	895.7	1228.4	3574.4	8603.7	10282.6	10203.4	7151.1
72.5°	261.1	272.4	365.2	499.5	647.4	670.8	2001.1	6216.2	7927.6	7916.3	5385.4
75°	186.4	196.9	241.5	357.7	486.7	415.0	963.6	4189.4	5039.8	5005.9	3331.5
77.5°	135.1	140.4	161.5	233.9	347.9	297.3	446.7	2237.3	2509.0	2627.4	1472.2
80°	77.7	82.2	112.4	142.6	235.4	203.0	213.5	897.9	925.9	881.3	460.3
82.5°	38.5	43.8	67.2	97.3	147.1	136.6	98.1	270.1	285.2	277.7	116.2
85°	9.1	11.3	37.7	64.1	71.7	61.1	47.5	79.2	98.1	95.8	44.5
87.5°	0.8	1.5	13.6	11.3	12.1	20.4	16.6	20.4	31.7	29.4	15.8
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°	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
2.5°	1125.8	1111.5	1070.0	1029.2	995.3	959.8	927.4	908.5	901.0	892.7	896.4
5°	1141.7	1107.0	1023.2	950.8	879.8	819.5	771.2	740.2	725.1	722.9	719.1
7.5°	1162.8	1103.2	973.4	860.2	767.4	700.2	645.2	600.6	587.1	575.0	565.2
10°	1188.5	1096.4	911.5	765.1	666.3	581.8	509.3	456.5	429.4	421.8	427.1
12.5°	1215.6	1083.6	846.6	677.6	563.7	455.8	388.6	362.2	354.7	351.6	352.4
15°	1242.8	1067.7	778.7	593.1	449.0	363.7	332.8	326.0	323.0	321.4	319.9
17.5°	1267.7	1042.1	702.5	510.8	363.7	310.9	299.6	293.5	287.5	285.2	281.5
20°	1297.1	1012.6	633.8	418.8	307.9	281.5	267.9	256.6	247.5	241.5	240.7
22.5°	1325.0	974.9	562.2	347.1	280.7	252.8	230.9	218.8	208.3	200.7	203.0
25°	1340.1	928.9	498.0	302.6	255.8	224.1	200.0	184.9	173.6	169.8	169.0
27.5°	1340.1	872.3	435.4	276.9	233.2	198.5	173.6	159.2	151.7	146.4	147.1
30°	1329.6	809.7	377.3	257.3	213.5	175.8	152.4	139.6	133.6	129.8	129.0
32.5°	1321.3	750.0	327.5	238.4	193.2	156.2	135.8	126.0	120.0	116.2	116.2
35°	1334.1	698.7	289.0	219.6	174.3	141.1	123.0	113.9	107.9	104.9	104.1
37.5°	1368.0	652.0	259.6	199.2	157.0	128.3	113.9	103.4	97.3	93.6	92.1
40°	1451.8	625.5	237.7	180.3	140.4	117.7	103.4	93.6	86.0	82.2	81.5
42.5°	1586.1	626.3	216.6	163.0	127.5	108.7	94.3	83.0	74.7	70.9	70.2
45°	1788.3	655.0	200.0	146.4	116.2	98.8	84.5	72.4	64.9	61.1	61.1
47.5°	2030.6	710.8	185.6	132.1	105.6	89.8	74.7	62.6	55.1	52.1	52.1
50°	2293.2	783.2	171.3	117.0	96.6	80.0	64.1	54.3	48.3	46.0	46.0
52.5°	2561.0	870.8	157.0	104.9	86.8	69.4	55.1	48.3	43.0	41.5	40.7
55°	2912.7	982.5	141.9	92.1	76.2	59.6	49.0	42.3	36.2	34.0	33.2
57.5°	3453.7	1150.7	125.3	80.7	62.6	49.8	42.3	35.5	28.7	24.9	24.1
60°	4106.4	1356.0	107.9	70.9	50.6	40.7	34.0	27.2	21.1	16.6	15.8
62.5°	4717.6	1486.5	91.3	59.6	40.0	30.9	24.1	20.4	15.1	10.6	9.8
65°	4987.7	1442.7	75.5	48.3	31.7	21.9	15.8	14.3	9.1	4.5	3.8
66°	4898.0	1377.9	69.4	43.8	28.7	18.9	13.6	12.1	6.8	2.3	2.3
67.5°	4633.1	1224.7	60.4	37.7	24.9	15.1	10.6	9.1	3.8	0.8	0.0
70°	3969.8	990.8	47.5	27.9	18.1	10.6	6.0	4.5	2.3	0.0	0.0
72.5°	3049.2	738.0	37.7	21.1	12.8	6.0	3.0	1.5	2.3	0.0	0.0
75°	1868.3	421.8	29.4	15.8	8.3	3.8	2.3	0.0	2.3	0.8	0.0
77.5°	829.3	189.4	19.6	10.6	6.0	3.0	1.5	0.0	1.5	0.8	0.0
80°	209.8	61.9	11.3	7.5	4.5	2.3	0.8	0.0	1.5	1.5	0.8
82.5°	57.3	22.6	8.3	6.0	3.8	2.3	0.8	0.0	1.5	1.5	1.5
85°	22.6	10.6	7.5	6.0	4.5	2.3	0.8	0.0	1.5	1.5	1.5
87.5°	10.6	7.5	7.5	6.8	5.3	2.3	0.8	0.0	1.5	0.8	1.5
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)