

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: P456199

Luminaire Tested: **GALN-SA7C-722-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-722-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29461 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

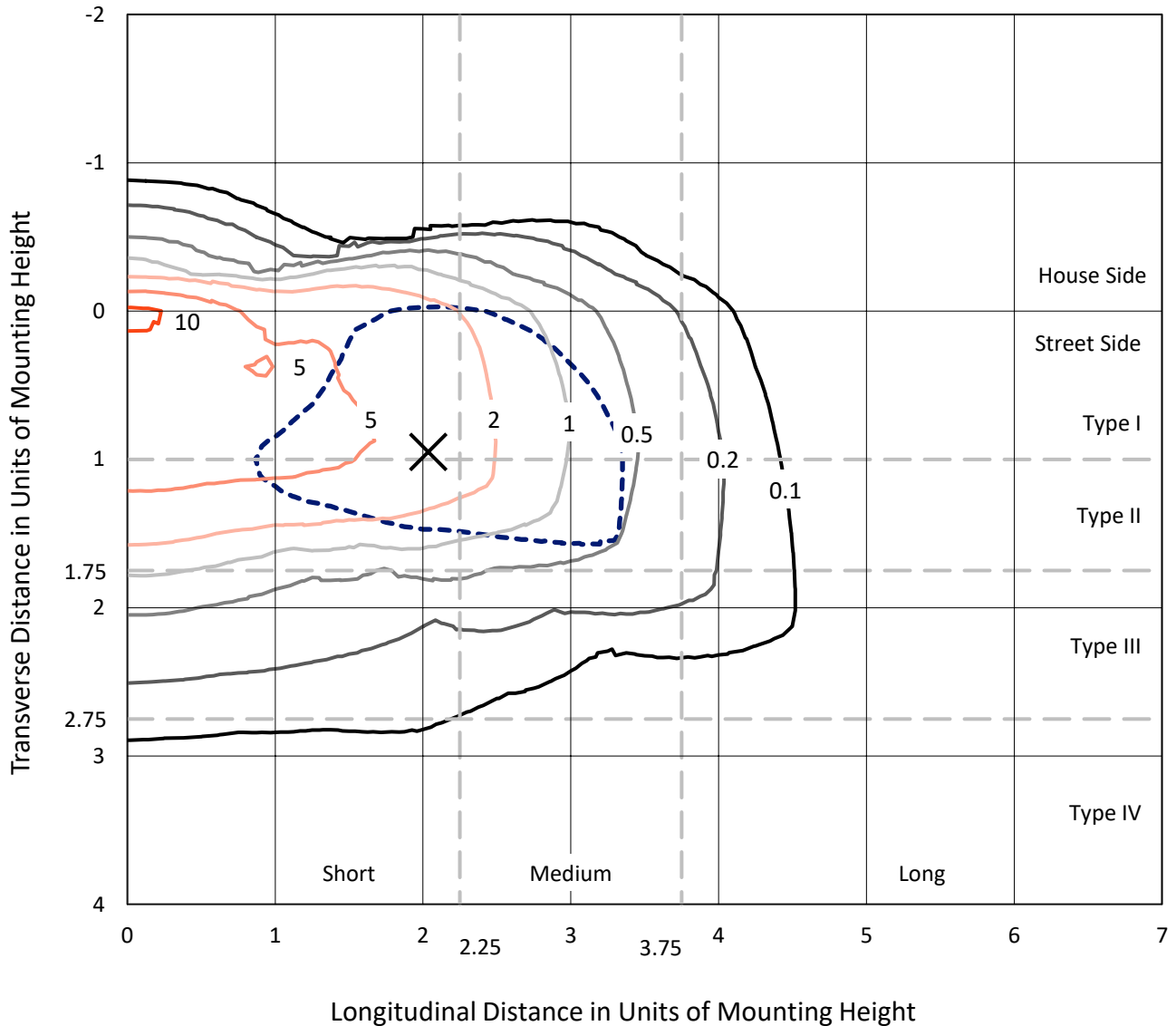
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

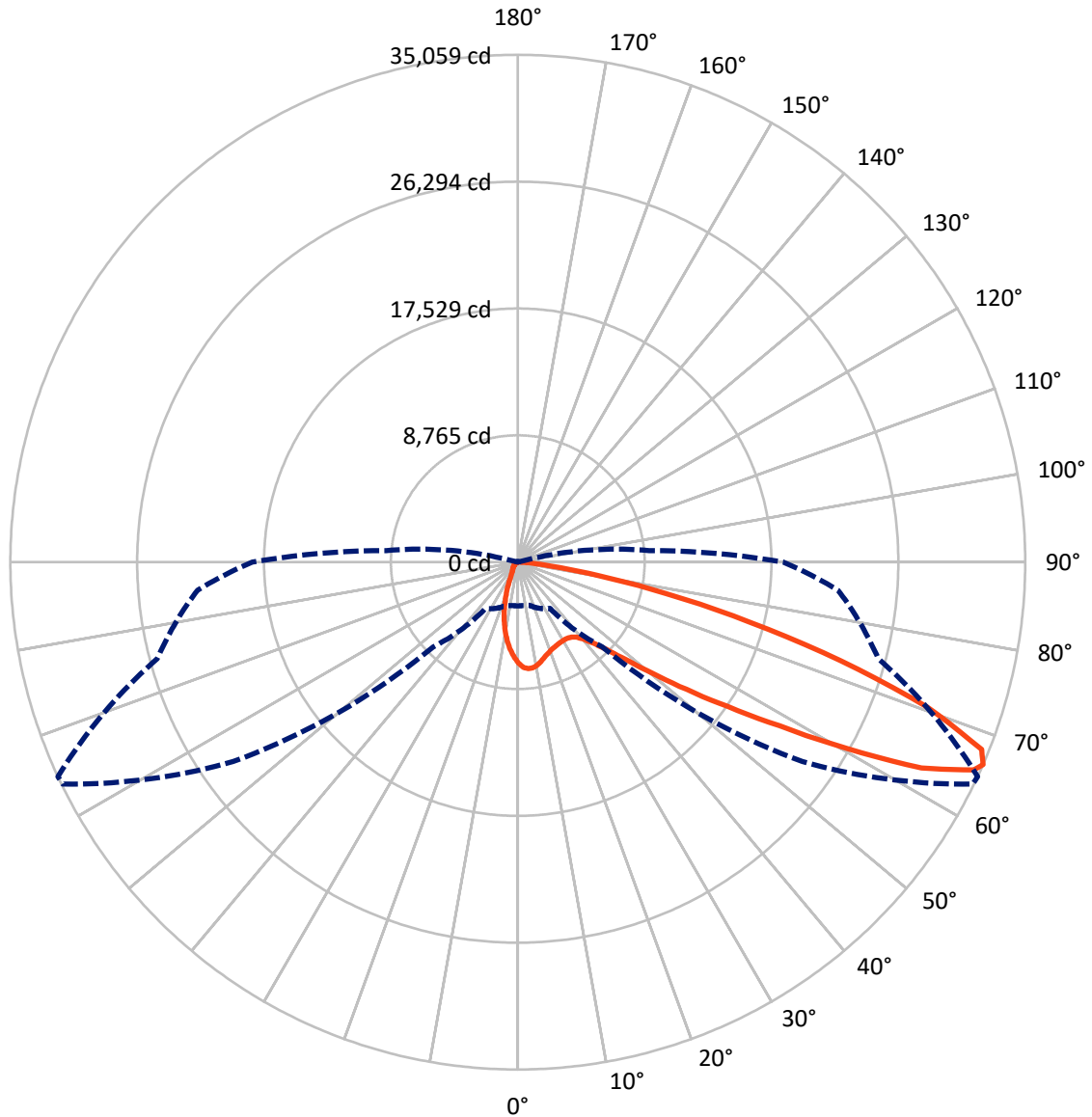
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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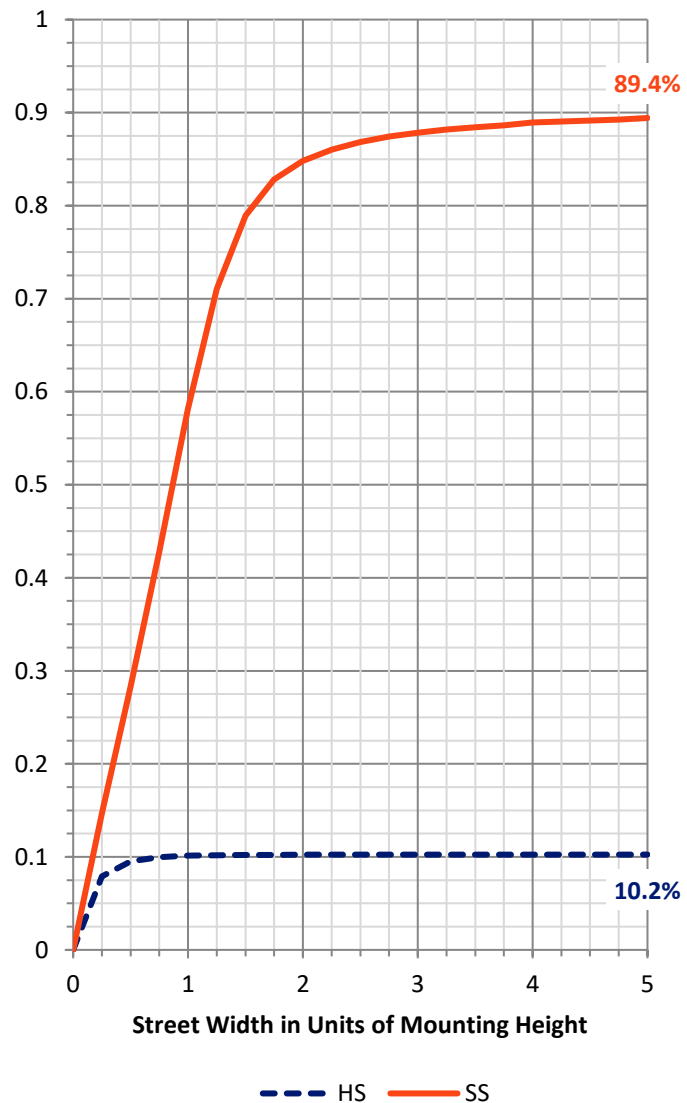
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3046.7	0.0	3046.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	26414.3	0.0	26414.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	29461.0	0.0	29461.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.4	1.9
10°-20°	1244.9	4.2
20°-30°	1783.4	6.1
30°-40°	2604.8	8.8
40°-50°	4367.7	14.8
50°-60°	7289.1	24.7
60°-70°	7737.1	26.3
70°-80°	3504.1	11.9
80°-90°	358.5	1.2
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°	29461.0	100.0
0°-180°	29461.0	100.0



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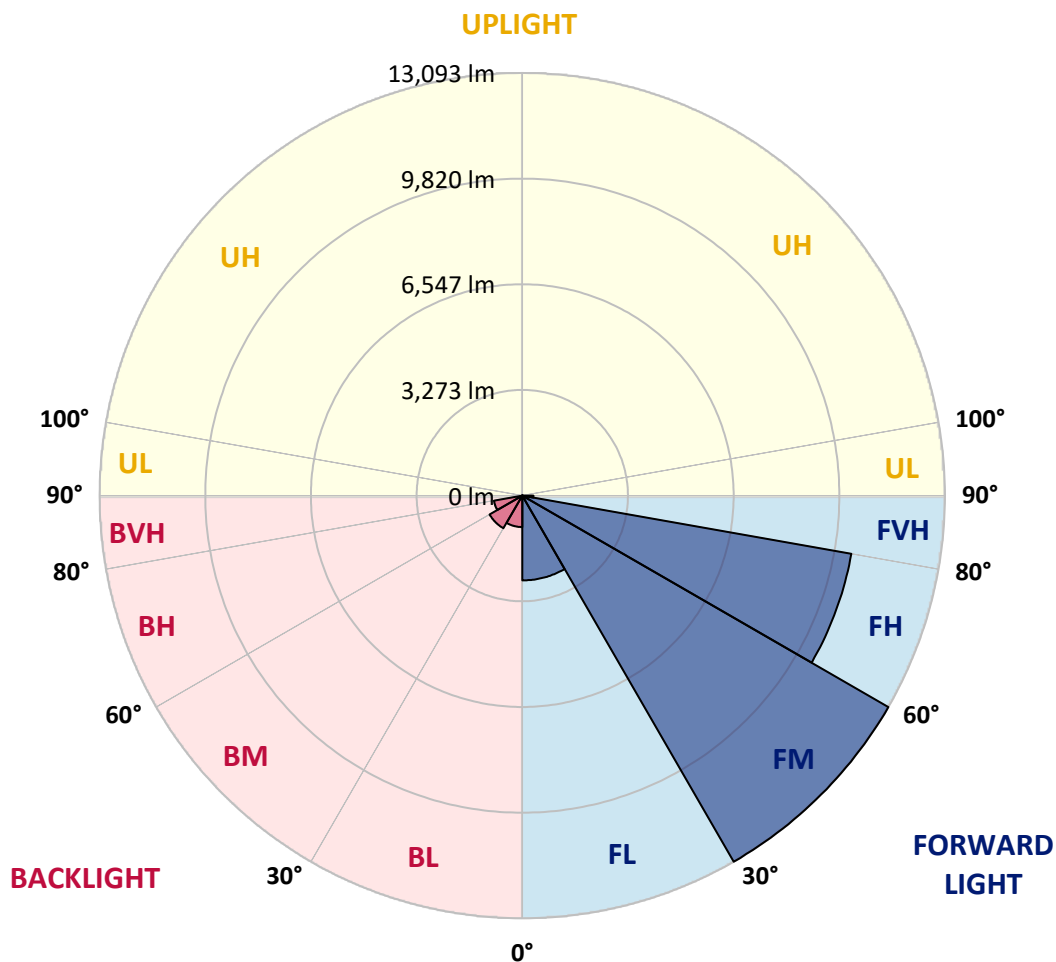
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2625.1	8.9			
FM (30°-60°)	13093.1	44.4			
FH (60°-80°)	10349.0	35.1			G4/12000
FVH (80°-90°)	347.1	1.2			G3/500
BL (0°-30°)	974.6	3.3	B2/1000		
BM (30°-60°)	1168.4	4.0	B2/2500		
BH (60°-80°)	892.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	11.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6986.3	6986.3	6986.3	6986.3	6986.3	6986.3	6986.3	6986.3	6986.3	6986.3	6986.3
2.5°	7362.4	7370.3	7380.3	7394.2	7404.2	7374.3	7332.5	7284.8	7274.8	7173.3	7050.0
5°	6968.4	6980.3	7067.9	7115.6	7223.1	7320.6	7382.3	7390.2	7386.2	7290.7	7093.7
7.5°	6407.2	6441.1	6526.6	6610.2	6811.2	6996.2	7215.1	7368.3	7378.3	7352.4	7107.7
10°	5951.6	5973.5	6017.2	6182.4	6349.5	6632.1	6938.5	7227.1	7250.9	7354.4	7095.7
12.5°	5595.4	5627.2	5681.0	5808.3	6009.3	6275.9	6624.1	7012.2	7061.9	7316.6	7061.9
15°	5346.7	5362.6	5416.3	5541.7	5736.7	5983.4	6335.6	6787.3	6831.1	7266.9	7055.9
17.5°	5229.3	5247.2	5285.0	5384.5	5545.7	5774.5	6118.7	6606.2	6661.9	7235.0	7077.8
20°	5261.1	5277.0	5279.0	5330.8	5440.2	5633.2	5959.5	6437.1	6508.7	7215.1	7113.6
22.5°	5442.2	5444.2	5420.3	5396.4	5434.2	5573.5	5862.0	6329.6	6403.3	7211.1	7155.4
25°	5712.8	5718.8	5679.0	5595.4	5519.8	5591.4	5840.1	6260.0	6325.7	7201.2	7181.3
27.5°	6086.9	6084.9	6073.0	5933.7	5718.8	5671.0	5858.1	6222.2	6277.9	7173.3	7191.2
30°	6610.2	6594.3	6568.4	6411.2	6082.9	5864.0	5933.7	6198.3	6250.1	7133.5	7165.4
32.5°	7125.6	7185.3	7181.3	7032.1	6622.2	6208.3	6090.9	6230.2	6268.0	7107.7	7127.6
35°	7726.5	7724.5	7877.7	7822.0	7342.5	6648.0	6359.5	6335.6	6365.5	7125.6	7109.7
37.5°	8283.7	8335.4	8574.2	8631.9	8194.1	7268.8	6739.6	6562.5	6572.4	7247.0	7153.4
40°	8978.1	9077.6	9433.8	9626.8	9240.8	8190.1	7300.7	6978.3	6980.3	7545.4	7318.6
42.5°	9873.5	10030.7	10363.0	10685.4	10478.4	9280.6	8142.4	7637.0	7633.0	8070.7	7696.7
45°	10962.0	11071.4	11449.5	11960.9	11829.5	10802.8	9368.1	8657.7	8606.0	8932.3	8367.2
47.5°	11901.2	12050.4	12434.4	13017.5	13614.4	12661.3	10832.6	10060.6	10026.7	10303.3	9517.4
50°	12311.1	12442.4	12846.3	13664.2	15110.8	15100.8	13013.5	12108.1	12050.4	12199.6	11296.3
52.5°	11861.4	11984.7	12392.7	13411.4	15815.2	18073.6	16173.3	14677.0	14607.3	14416.3	13421.4
55°	10321.2	10422.7	11025.6	12195.7	15544.5	20055.5	20527.1	17850.8	17580.1	16837.9	15827.1
57.5°	8218.0	8166.3	8540.3	9899.4	13956.7	20720.1	24996.2	21804.5	21321.0	18931.2	17862.7
60°	5694.9	5854.1	6005.3	6900.7	10494.4	19568.0	27776.0	26775.1	26138.4	20990.7	19812.7
62.5°	4186.6	4292.1	4391.6	4805.4	6598.3	15624.1	28267.5	31881.0	31315.9	23177.5	21673.2
65°	3311.1	3319.0	3358.8	3766.7	4347.8	10160.1	25905.6	34760.3	34615.1	25282.8	22427.4
66°	3016.6	3018.6	3080.3	3518.0	3902.1	8273.7	24013.3	34979.2	35058.8	25788.2	22206.5
67.5°	2636.5	2628.6	2718.1	3161.8	3553.8	5965.5	20626.6	34091.7	34563.3	26176.2	21412.5
70°	2043.6	2033.6	2143.0	2652.4	3273.3	3979.7	13709.9	29272.4	30032.5	25382.3	18945.2
72.5°	1361.0	1369.0	1556.0	2093.3	3124.0	3504.1	8247.8	22268.2	23342.7	20960.9	14903.8
75°	793.9	807.9	1020.8	1556.0	2712.1	3340.9	4668.1	15878.8	16565.3	14474.0	9284.5
77.5°	415.9	421.8	571.1	1026.8	2079.4	3102.1	3110.1	10144.1	10466.5	7034.0	3675.2
80°	220.9	214.9	306.4	618.8	1430.7	2724.1	2523.1	5370.5	5583.5	2089.3	929.3
82.5°	83.6	91.5	163.2	405.9	845.7	1956.0	2172.9	2373.9	2300.2	459.7	390.0
85°	15.9	19.9	69.6	240.8	425.8	817.8	1601.8	1164.0	1078.5	173.1	224.9
87.5°	2.0	4.0	19.9	57.7	61.7	276.6	473.6	322.4	278.6	63.7	93.5
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°	6986.3	6986.3	6986.3	6986.3	6986.3	6986.3	6986.3	6986.3	6986.3	6986.3	6986.3
2.5°	6990.3	6936.5	6757.5	6580.4	6399.3	6236.1	6124.7	5943.6	5897.9	5832.2	5794.4
5°	6976.3	6851.0	6506.7	6130.7	5780.5	5402.4	5113.9	4835.3	4686.0	4610.4	4582.6
7.5°	6936.5	6737.6	6200.3	5611.3	5050.2	4485.1	3993.6	3619.5	3378.7	3213.6	3102.1
10°	6857.0	6582.4	5844.1	5034.3	4186.6	3440.4	2817.6	2344.0	1977.9	1862.5	1866.5
12.5°	6775.4	6409.2	5446.2	4393.5	3342.9	2401.7	1741.1	1367.0	1191.9	1134.2	1122.3
15°	6699.8	6244.1	5056.2	3772.7	2489.3	1556.0	1122.3	990.9	943.2	933.2	931.2
17.5°	6660.0	6090.9	4640.3	3062.3	1737.1	1056.6	899.4	863.6	849.7	839.7	835.7
20°	6626.1	5957.5	4242.3	2397.7	1187.9	865.6	805.9	772.1	748.2	738.2	732.3
22.5°	6602.3	5820.2	3830.4	1856.5	909.4	768.1	714.3	670.6	636.7	624.8	616.8
25°	6566.4	5669.0	3414.5	1357.1	766.1	682.5	620.8	569.1	525.3	503.4	499.4
27.5°	6514.7	5497.9	2958.9	1004.9	684.5	606.9	531.3	467.6	423.8	400.0	401.9
30°	6431.1	5318.8	2503.2	797.9	618.8	529.3	447.7	386.0	344.2	326.3	324.3
32.5°	6331.6	5101.9	2085.3	684.5	559.1	459.7	374.1	320.4	288.5	274.6	272.6
35°	6238.1	4883.0	1659.5	614.9	497.5	396.0	314.4	268.6	244.7	232.8	234.8
37.5°	6186.4	4688.0	1293.4	559.1	447.7	340.3	270.6	230.8	208.9	199.0	197.0
40°	6220.2	4528.9	1028.7	509.4	392.0	292.5	232.8	199.0	177.1	163.2	163.2
42.5°	6379.4	4459.2	829.8	461.6	340.3	252.7	203.0	171.1	147.2	133.3	135.3
45°	6864.9	4532.8	694.5	417.9	292.5	218.9	175.1	141.3	119.4	109.4	107.5
47.5°	7670.8	4809.4	600.9	372.1	250.7	187.0	147.2	117.4	95.5	87.6	85.6
50°	9079.6	5380.5	531.3	326.3	212.9	159.2	121.4	93.5	75.6	67.7	67.7
52.5°	11017.7	6626.1	481.5	274.6	179.1	135.3	99.5	75.6	59.7	53.7	51.7
55°	13043.3	7939.4	455.7	230.8	149.2	111.4	79.6	59.7	45.8	39.8	37.8
57.5°	14991.4	8970.1	425.8	187.0	119.4	85.6	61.7	45.8	31.8	27.9	25.9
60°	16859.8	9803.9	362.1	149.2	93.5	61.7	45.8	31.8	21.9	17.9	17.9
62.5°	18531.3	10289.4	284.5	119.4	71.6	43.8	29.8	23.9	15.9	11.9	11.9
65°	18726.3	9658.6	214.9	91.5	51.7	27.9	17.9	17.9	11.9	8.0	8.0
66°	18334.3	9123.4	189.0	83.6	45.8	23.9	15.9	13.9	9.9	6.0	6.0
67.5°	17458.8	8210.0	163.2	71.6	37.8	17.9	11.9	11.9	8.0	4.0	4.0
70°	15084.9	6705.7	129.3	53.7	27.9	13.9	8.0	8.0	6.0	4.0	4.0
72.5°	11497.2	5006.4	105.5	39.8	19.9	9.9	6.0	6.0	6.0	4.0	4.0
75°	6934.6	2696.2	81.6	29.8	17.9	8.0	4.0	6.0	8.0	6.0	4.0
77.5°	2554.9	917.3	63.7	23.9	13.9	8.0	4.0	4.0	8.0	6.0	6.0
80°	626.8	238.8	45.8	19.9	13.9	8.0	4.0	4.0	8.0	8.0	8.0
82.5°	290.5	101.5	31.8	17.9	13.9	8.0	4.0	4.0	6.0	8.0	8.0
85°	167.1	47.8	25.9	19.9	13.9	8.0	4.0	4.0	6.0	8.0	8.0
87.5°	67.7	23.9	23.9	19.9	15.9	9.9	4.0	4.0	4.0	6.0	6.0
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)