

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: P455475

Luminaire Tested: **GALN-SA6C-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33068 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

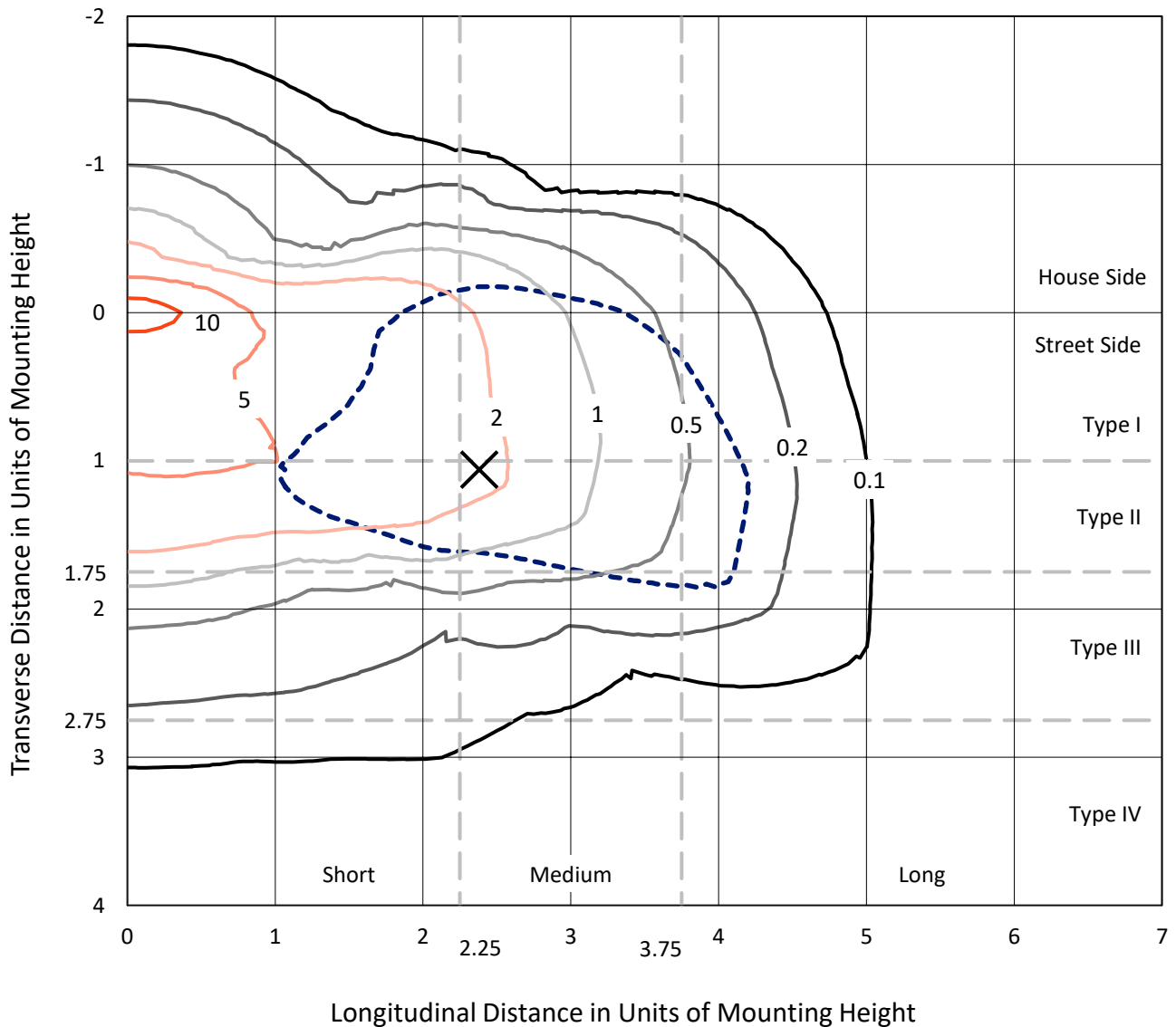
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

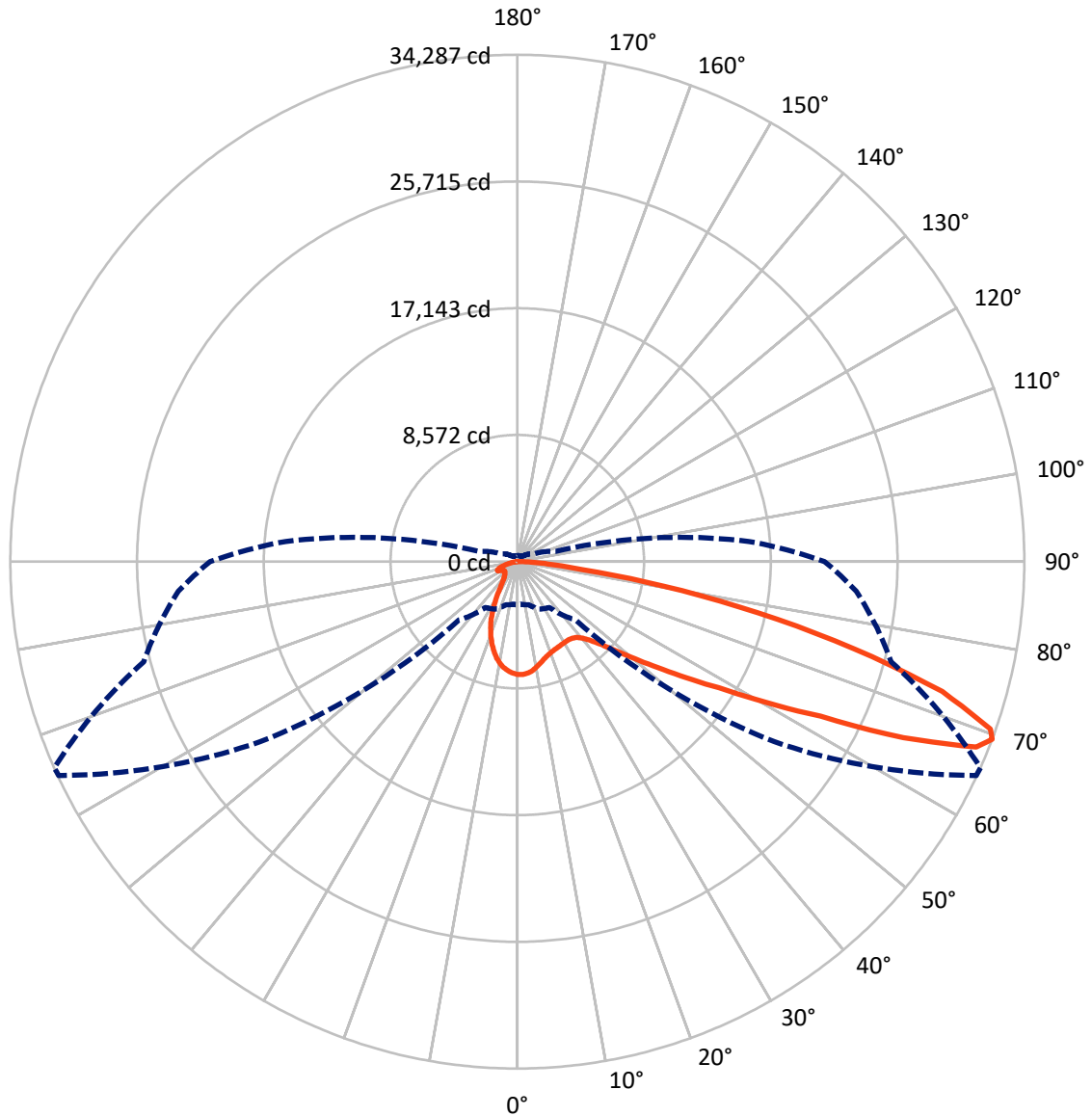
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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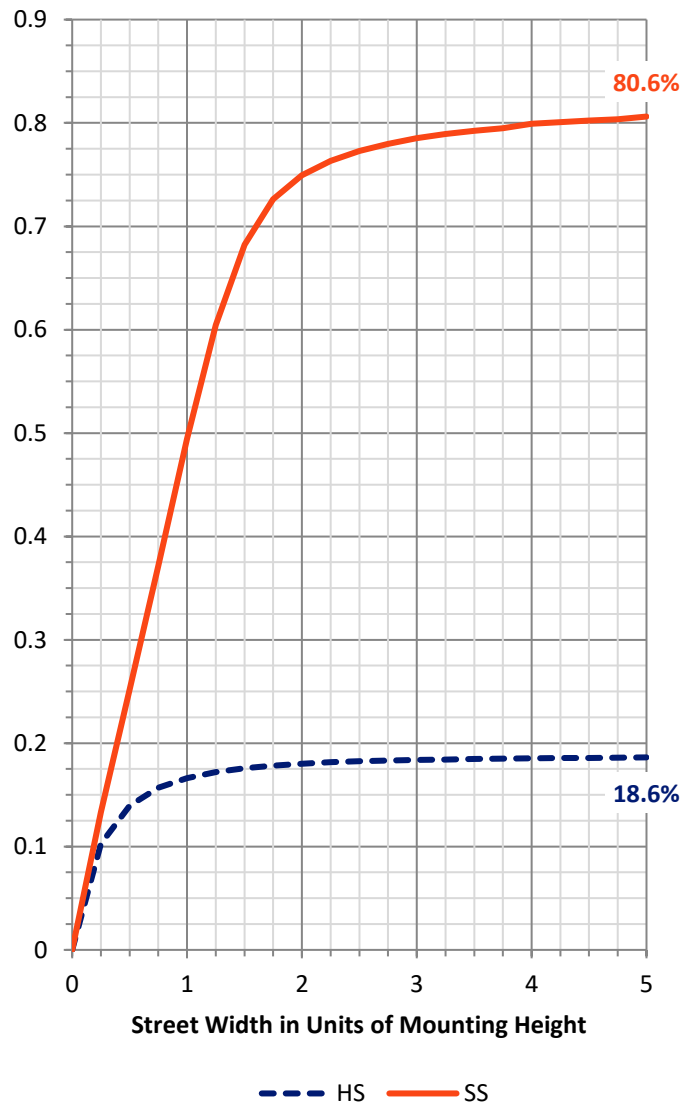
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6218.9	0.0	6218.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	26849.2	0.0	26849.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	33068.0	0.0	33068.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.1	2.0
10°-20°	1572.9	4.8
20°-30°	2141.3	6.5
30°-40°	2877.4	8.7
40°-50°	4296.5	13.0
50°-60°	6834.3	20.7
60°-70°	8405.8	25.4
70°-80°	5469.2	16.5
80°-90°	807.6	2.4
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°	33068.0	100.0
0°-180°	33068.0	100.0



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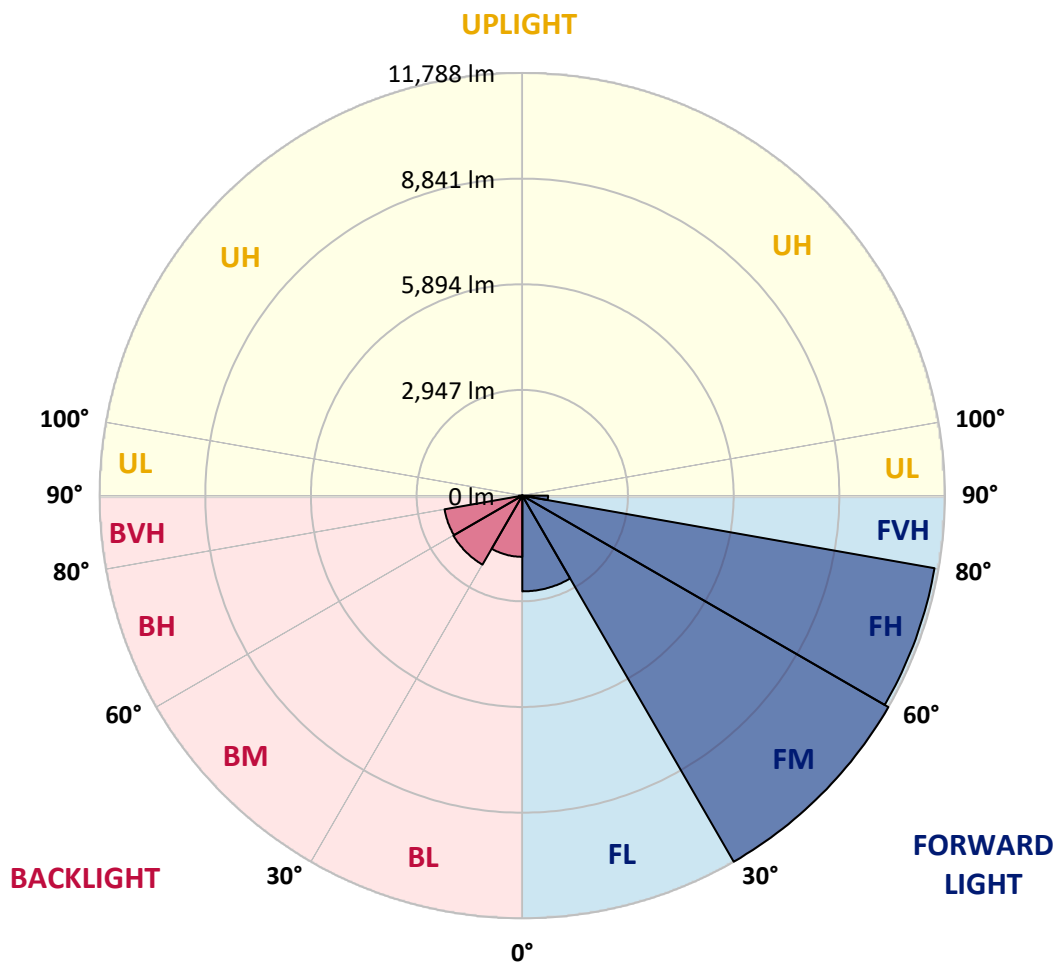
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2670.2	8.1			
FM	(30°-60°)	11787.7	35.6			
FH	(60°-80°)	11673.2	35.3			G4/12000
FVH	(80°-90°)	718.0	2.2			G4/750
BL	(0°-30°)	1707.1	5.2	B3/2500		
BM	(30°-60°)	2220.4	6.7	B2/2500		
BH	(60°-80°)	2201.7	6.7	B3/2500		G3/2500
BVH	(80°-90°)	89.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7636.3	7636.3	7636.3	7636.3	7636.3	7636.3	7636.3	7636.3	7636.3	7636.3	7636.3
2.5°	7369.0	7398.3	7431.2	7467.8	7537.4	7575.9	7603.4	7634.5	7638.2	7654.6	7641.8
5°	6825.1	6859.9	6909.3	6978.9	7083.3	7246.3	7414.7	7552.1	7568.6	7645.5	7667.5
7.5°	6370.9	6391.1	6431.4	6543.1	6691.4	6872.7	7118.1	7396.4	7436.7	7619.8	7683.9
10°	6001.0	6021.2	6068.8	6184.1	6330.6	6557.7	6826.9	7193.2	7226.1	7541.1	7687.6
12.5°	5724.5	5742.8	5794.1	5907.6	6076.1	6288.5	6585.2	6973.4	7021.0	7436.7	7652.8
15°	5513.9	5548.7	5590.8	5684.2	5861.8	6066.9	6354.4	6772.0	6810.4	7326.8	7629.0
17.5°	5424.2	5440.6	5469.9	5556.0	5686.0	5887.5	6176.8	6614.5	6660.3	7249.9	7623.5
20°	5427.8	5444.3	5449.8	5497.4	5590.8	5764.8	6050.5	6490.0	6544.9	7182.2	7632.7
22.5°	5552.4	5554.2	5534.0	5517.6	5554.2	5698.9	5960.7	6396.6	6460.7	7152.9	7640.0
25°	5744.6	5777.6	5748.3	5671.4	5603.6	5673.2	5925.9	6345.3	6405.7	7110.8	7630.8
27.5°	6055.9	6061.4	6037.6	5933.3	5757.5	5706.2	5911.3	6306.8	6358.1	7079.6	7585.0
30°	6473.5	6457.0	6435.0	6319.6	6043.1	5832.5	5942.4	6272.0	6325.1	7033.8	7530.1
32.5°	6896.5	6947.8	6927.6	6792.1	6433.2	6077.9	6043.1	6268.4	6312.3	6999.0	7469.7
35°	7345.2	7369.0	7464.2	7394.6	7026.5	6475.3	6231.7	6325.1	6359.9	7000.9	7427.6
37.5°	7696.8	7760.8	7984.3	8044.7	7698.6	7000.9	6537.6	6486.3	6500.9	7090.6	7444.0
40°	8121.6	8231.5	8519.0	8766.2	8539.1	7683.9	7057.6	6784.8	6803.1	7306.7	7552.1
42.5°	8660.0	8736.9	9123.3	9458.4	9421.8	8586.7	7687.6	7273.7	7282.9	7737.0	7854.2
45°	9289.9	9399.8	9833.8	10337.4	10423.5	9608.6	8597.7	8013.6	8008.1	8405.4	8418.3
47.5°	10095.7	10163.4	10593.8	11143.2	11491.1	10892.3	9702.0	9075.7	9017.1	9379.7	9275.3
50°	10837.3	10943.6	11269.5	11870.2	12736.4	12395.7	11154.2	10452.8	10315.4	10654.2	10478.4
52.5°	11148.7	11260.4	11535.1	12280.4	13804.0	14340.5	12998.2	12095.4	11866.5	12126.5	12062.5
55°	10608.4	10753.1	11009.5	11916.0	14272.8	16583.8	15485.1	13994.4	13827.8	13716.1	13734.4
57.5°	9156.3	9293.6	9639.7	10639.6	13712.4	18211.8	19035.9	16435.5	16078.4	15563.8	15651.7
60°	6969.7	7055.8	7235.3	8343.2	12051.5	18634.8	23068.3	19521.1	19294.1	17404.2	17466.5
62.5°	4949.9	5046.9	5171.5	5724.5	8823.0	17442.7	26225.4	23830.1	23018.8	19310.6	19250.1
65°	4019.6	3953.7	4103.8	4362.0	5176.9	13518.3	26935.9	29810.9	28693.9	21821.2	20982.5
67.5°	3305.4	3235.8	3384.2	3843.8	3937.2	7846.9	24375.8	33693.2	33469.8	24551.6	22742.3
69°	2926.3	2889.7	3019.7	3543.5	3779.7	5572.5	21235.2	34233.4	34286.5	26161.3	23013.3
70°	2637.0	2651.7	2778.0	3391.5	3708.3	4594.6	18149.5	33488.1	33938.6	26965.2	22720.3
72.5°	1941.1	1972.3	2148.1	2809.1	3640.5	3898.7	10800.7	29250.6	30047.2	27012.8	20784.7
75°	1357.0	1342.3	1498.0	2115.1	3439.1	3863.9	6343.5	22621.5	23524.3	23348.5	17464.6
77.5°	888.2	912.0	1036.5	1494.3	2893.4	3834.6	4135.0	16049.1	16635.1	15615.1	10330.1
80°	626.3	624.5	694.0	1020.0	2146.2	3684.5	3386.0	10115.8	9967.5	6136.5	3063.7
82.5°	358.9	384.6	465.1	717.9	1435.7	3243.1	3115.0	4838.2	4417.0	1748.8	1034.7
85°	199.6	208.8	276.5	434.0	838.7	2442.9	2719.4	2201.2	2076.6	730.7	445.0
87.5°	64.1	69.6	115.4	219.8	380.9	1153.7	1540.1	1016.3	937.6	263.7	179.5
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°	7636.3	7636.3	7636.3	7636.3	7636.3	7636.3	7636.3	7636.3	7636.3	7636.3	7636.3
2.5°	7647.3	7669.3	7610.7	7553.9	7502.6	7431.2	7367.1	7314.0	7277.4	7271.9	7253.6
5°	7672.9	7674.8	7563.1	7412.9	7266.4	7105.3	6938.6	6819.6	6707.9	6645.6	6614.5
7.5°	7691.3	7674.8	7473.3	7229.8	6947.8	6654.8	6361.8	6127.4	5946.1	5874.7	5902.1
10°	7683.9	7632.7	7337.8	6947.8	6537.6	6099.9	5678.7	5349.1	5046.9	4891.3	4894.9
12.5°	7643.6	7559.4	7136.4	6631.0	6028.5	5442.5	4797.9	4352.9	4003.1	3796.2	3732.1
15°	7608.9	7462.4	6900.2	6200.6	5451.6	4614.8	3829.1	3279.8	2986.8	2823.8	2822.0
17.5°	7572.2	7369.0	6642.0	5744.6	4788.7	3711.9	2887.9	2468.5	2331.2	2347.7	2320.2
20°	7533.8	7259.1	6372.8	5237.4	3981.1	2768.9	2162.7	1992.4	2030.9	2105.9	2116.9
22.5°	7489.8	7141.9	6083.4	4678.8	3131.4	2084.0	1754.3	1728.7	1827.6	1944.8	1961.3
25°	7422.1	6995.4	5719.0	4094.7	2415.4	1679.3	1536.4	1554.7	1651.8	1750.7	1761.7
27.5°	7326.8	6814.1	5350.9	3365.8	1814.8	1441.2	1404.6	1428.4	1476.0	1536.4	1551.1
30°	7198.7	6609.0	4927.9	2735.9	1454.0	1322.2	1307.5	1320.3	1347.8	1373.4	1380.8
32.5°	7070.5	6411.2	4501.2	2095.0	1296.5	1243.4	1228.8	1228.8	1228.8	1232.4	1234.3
35°	6951.4	6224.4	4043.4	1631.6	1214.1	1181.2	1161.0	1139.0	1135.4	1122.6	1122.6
37.5°	6885.5	6054.1	3556.3	1366.1	1153.7	1129.9	1102.4	1065.8	1045.6	1047.5	1043.8
40°	6898.3	5942.4	3113.1	1216.0	1104.2	1078.6	1036.5	994.4	981.6	981.6	977.9
42.5°	7043.0	5905.8	2688.3	1137.2	1056.6	1027.3	974.2	935.8	928.4	926.6	930.3
45°	7376.3	5995.5	2307.4	1085.9	1016.3	972.4	919.3	884.5	877.2	877.2	875.3
47.5°	8026.4	6286.7	2034.5	1053.0	987.0	930.3	875.3	840.5	827.7	824.1	824.1
50°	9037.2	6918.5	1831.3	1023.7	950.4	891.8	835.1	794.8	774.6	772.8	771.0
52.5°	10441.8	7903.7	1752.5	1001.7	910.1	851.5	789.3	750.8	725.2	719.7	716.0
55°	12084.4	9279.0	1860.6	985.2	868.0	805.8	741.7	701.4	677.6	666.6	664.7
57.5°	13987.1	10930.7	2270.8	963.2	829.6	756.3	694.0	653.8	628.1	615.3	611.6
60°	15695.7	12628.3	2986.8	950.4	796.6	703.2	639.1	602.5	578.7	565.9	564.0
62.5°	17572.7	14247.1	3842.0	985.2	781.9	651.9	587.8	554.9	534.7	521.9	521.9
65°	19577.9	15867.8	4407.8	1102.4	803.9	611.6	532.9	505.4	487.1	478.0	476.1
67.5°	20929.4	16428.2	3631.4	1223.3	858.9	567.7	479.8	457.8	446.8	437.7	437.7
69°	20782.9	15719.5	2679.1	1254.4	875.3	545.7	450.5	434.0	419.4	415.7	412.0
70°	20319.6	14911.9	2245.1	1234.3	862.5	525.6	432.2	412.0	399.2	395.6	393.7
72.5°	18098.3	12932.3	1671.9	1073.1	734.3	456.0	382.7	364.4	353.4	347.9	347.9
75°	15036.4	10570.0	1305.7	853.4	575.0	384.6	327.8	313.1	304.0	300.3	298.5
77.5°	8427.4	5902.1	937.6	668.4	435.8	311.3	274.7	261.9	252.7	249.1	249.1
80°	2347.7	1686.6	551.2	441.3	296.7	236.2	217.9	208.8	195.9	186.8	192.3
82.5°	884.5	730.7	315.0	265.5	188.6	157.5	152.0	144.7	139.2	126.4	126.4
85°	430.3	355.3	201.4	141.0	104.4	82.4	78.7	75.1	71.4	62.3	64.1
87.5°	148.3	157.5	87.9	51.3	31.1	20.1	16.5	9.2	9.2	9.2	9.2
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)