

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: P533717

Luminaire Tested: **GALN-SA9A-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533717
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-SA9A-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 19229 lumens
Efficiency: N/A
Efficacy: 70.2 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): 274
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



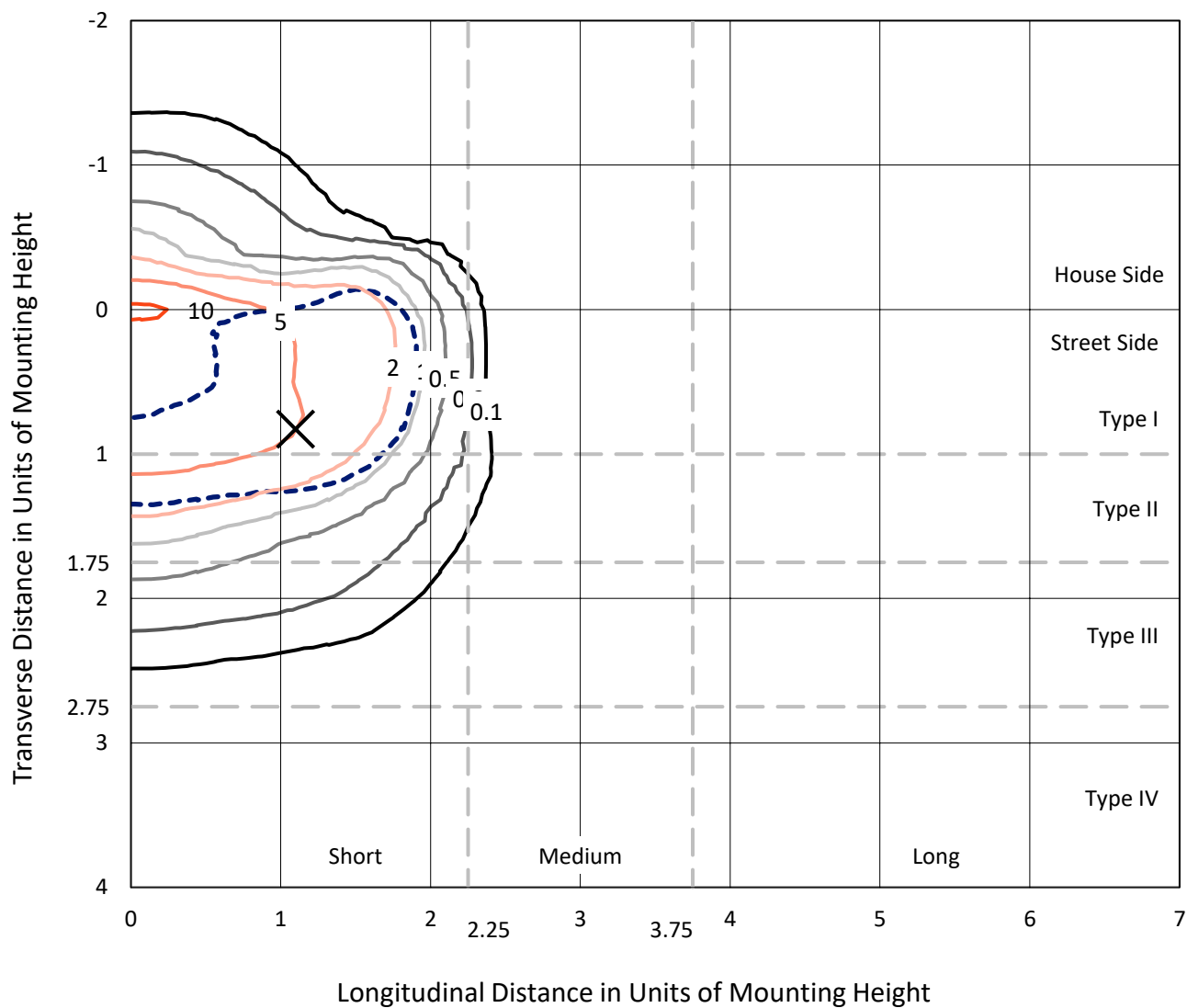
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

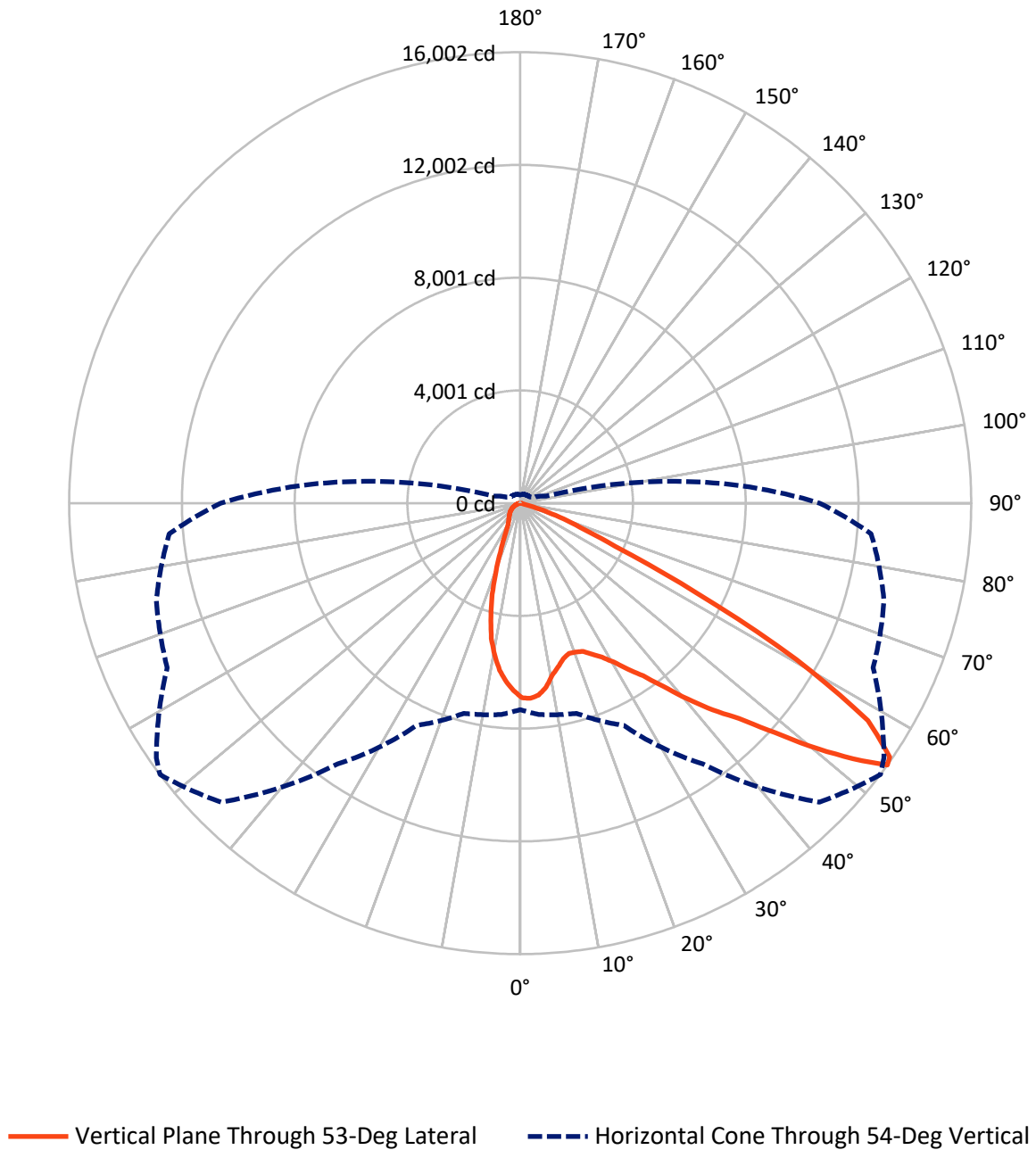


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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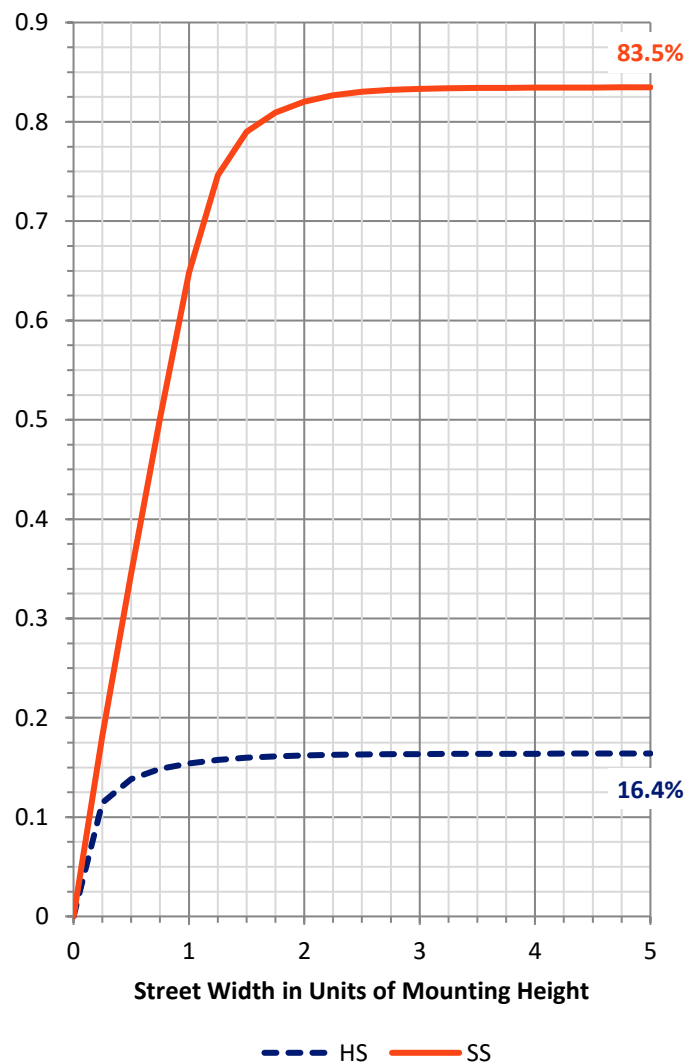
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3181.5	0.0	3181.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16047.5	0.0	16047.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	19229.0	0.0	19229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.6	3.1
10°-20°	1358.6	7.1
20°-30°	1930.9	10.0
30°-40°	2979.8	15.5
40°-50°	4672.1	24.3
50°-60°	5427.3	28.2
60°-70°	2050.8	10.7
70°-80°	195.0	1.0
80°-90°	22.0	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°	19229.0	100.0
0°-180°	19229.0	100.0

Coefficient of Utilization



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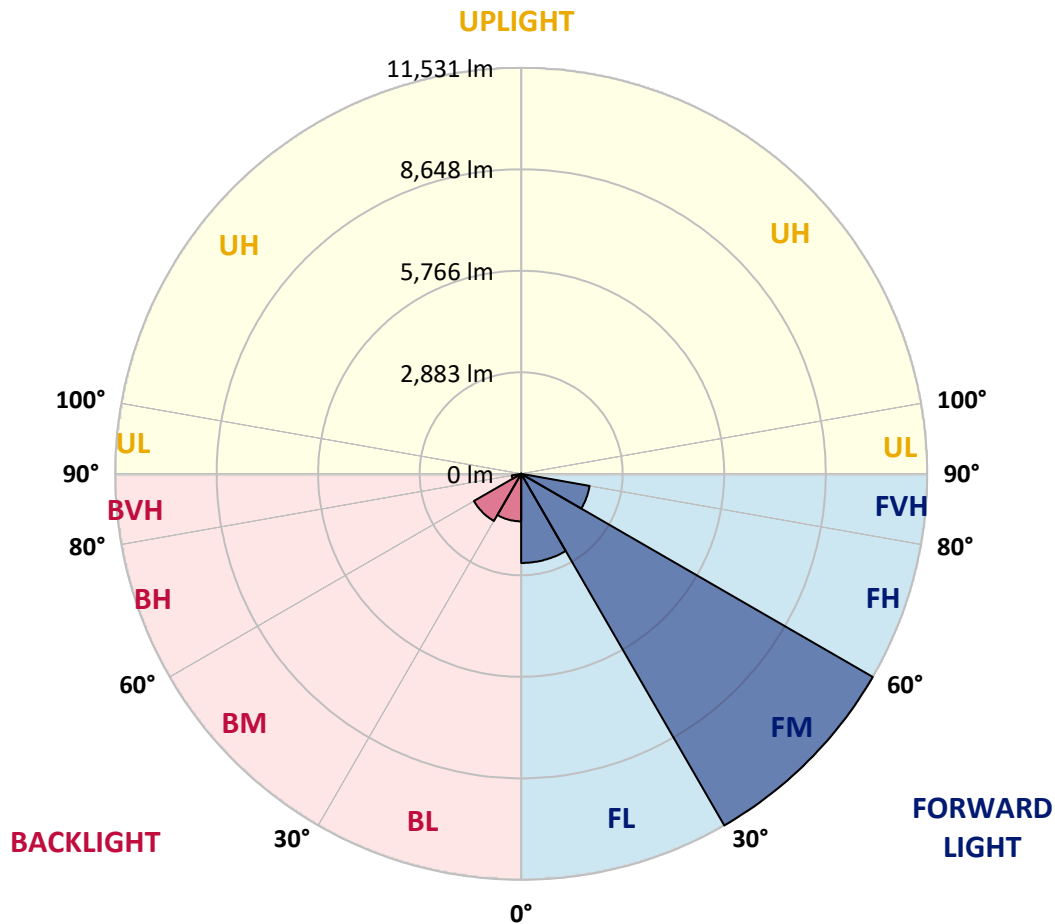
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2532.0	13.2			
FM	(30°-60°)	11531.0	60.0			
FH	(60°-80°)	1973.2	10.3			G2/5000
FVH	(80°-90°)	11.3	0.1			G1/100
BL	(0°-30°)	1350.1	7.0	B3/2500		
BM	(30°-60°)	1548.2	8.1	B2/2500		
BH	(60°-80°)	272.6	1.4	B1/500		G1/500
BVH	(80°-90°)	10.6	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°	6906.7	6906.7	6906.7	6906.7	6906.7	6906.7	6906.7	6906.7	6906.7	6906.7	6906.7
2.5°	6870.9	6810.0	6870.9	6878.1	6921.1	6960.5	6935.4	6992.7	6960.5	6924.6	6913.9
5°	6315.6	6398.0	6401.6	6530.6	6501.9	6738.4	6842.3	6813.6	6989.1	6978.4	6953.3
7.5°	5817.7	5785.5	5828.5	5978.9	6168.8	6441.0	6591.5	6587.9	6838.7	7017.8	6999.9
10°	5355.6	5352.0	5441.6	5559.8	5721.0	6007.6	6215.3	6319.2	6709.7	6982.0	7021.4
12.5°	5043.9	5029.6	5126.3	5223.0	5477.4	5699.5	5964.6	6014.7	6462.5	6856.6	6921.1
15°	4839.7	4872.0	4879.1	5065.4	5226.6	5520.4	5728.1	5832.0	6347.9	6756.3	7003.5
17.5°	4803.9	4846.9	4850.5	5004.5	5176.5	5423.6	5606.3	5746.1	6251.2	6806.4	7007.0
20°	4875.6	4850.5	4872.0	4968.7	5137.1	5373.5	5638.6	5685.2	6218.9	6831.5	7046.4
22.5°	5079.7	5072.6	5018.8	5097.7	5215.9	5463.1	5713.8	5785.5	6312.1	6960.5	7078.7
25°	5305.4	5344.8	5294.7	5283.9	5366.3	5609.9	5943.1	6036.2	6623.7	7193.3	7179.0
27.5°	5728.1	5688.7	5688.7	5638.6	5617.1	5735.3	6190.3	6344.3	6971.2	7494.2	7293.6
30°	6132.9	6175.9	6143.7	6161.6	6018.3	6007.6	6541.3	6731.2	7587.4	7952.8	7537.2
32.5°	6774.2	6716.9	6770.6	6724.0	6534.2	6340.7	7017.8	7214.8	8332.5	8479.4	7902.6
35°	7308.0	7282.9	7512.1	7505.0	7196.9	7007.0	7522.9	7816.6	8851.9	9109.9	8332.5
37.5°	8067.4	8020.8	8282.3	8407.7	8131.9	7848.9	8246.5	8586.8	9335.6	9615.0	8773.1
40°	8848.4	8966.6	9317.6	9525.4	9231.7	8855.5	9131.4	9235.2	9658.0	9944.5	9074.0
42.5°	9837.1	10009.0	10367.3	10546.4	10521.3	10112.9	10030.5	10026.9	9890.8	9851.4	9296.1
45°	10786.4	10721.9	11273.6	11664.1	11979.3	11861.1	10897.4	10790.0	10259.8	9991.1	9353.5
47.5°	11201.9	11180.5	11556.6	12251.6	13326.3	13473.1	12158.4	11742.9	10883.1	10578.6	9665.1
50°	10664.6	10775.6	11148.2	11918.4	13566.3	14687.6	13706.0	13147.2	11610.3	11295.1	10403.1
52.5°	8909.3	8984.5	9339.1	10317.1	12749.5	15404.0	15189.1	14866.7	12946.5	12423.5	11689.1
54°	7325.9	7526.5	7719.9	8701.5	11295.1	15006.4	16002.3	15755.1	13817.0	13362.1	12498.8
55°	6380.1	6498.3	6638.1	7616.0	10288.5	14332.9	15909.1	15930.6	14401.0	13655.8	13043.3
57.5°	4660.6	4743.0	4599.7	5033.2	7064.4	11639.0	14551.4	15131.8	15189.1	14096.5	13376.4
60°	3560.8	3596.7	3435.5	3503.5	4391.9	7988.6	11255.7	11954.2	13702.4	12319.6	11330.9
62.5°	2762.0	2769.1	2765.6	2883.8	3027.1	4700.0	7039.3	7659.0	9446.6	8748.1	7694.8
65°	2034.8	2002.5	2059.8	2418.1	2582.9	2955.4	3707.7	4159.1	5133.5	4334.6	3098.7
67.5°	1318.3	1329.0	1386.4	1798.3	2213.9	2267.6	2281.9	2246.1	2249.7	1239.5	777.4
70°	791.7	809.6	791.7	1017.4	1583.4	1626.4	1486.7	1450.8	1132.0	293.8	290.2
72.5°	469.3	444.2	397.6	437.0	659.1	788.1	709.3	705.7	444.2	172.0	172.0
75°	197.0	179.1	146.9	132.5	175.5	168.4	168.4	150.5	118.2	114.6	107.5
77.5°	39.4	39.4	28.7	32.2	43.0	50.2	60.9	60.9	71.6	71.6	68.1
80°	0.0	3.6	10.7	21.5	32.2	46.6	53.7	53.7	60.9	60.9	50.2
82.5°	0.0	3.6	10.7	21.5	28.7	43.0	53.7	53.7	60.9	64.5	53.7
85°	0.0	3.6	10.7	17.9	28.7	35.8	35.8	32.2	25.1	21.5	14.3
87.5°	0.0	0.0	3.6	7.2	3.6	7.2	7.2	7.2	7.2	7.2	7.2
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°	6906.7	6906.7	6906.7	6906.7	6906.7	6906.7	6906.7	6906.7	6906.7	6906.7	6906.7
2.5°	6939.0	6935.4	6849.4	6709.7	6677.5	6559.2	6544.9	6473.3	6512.7	6380.1	6365.8
5°	6881.7	6838.7	6734.8	6645.2	6383.7	6197.4	6050.6	5871.4	5767.6	5785.5	5717.4
7.5°	6964.0	6853.0	6670.3	6358.6	6039.8	5713.8	5538.3	5172.9	5040.3	4843.3	4814.7
10°	6878.1	6795.7	6512.7	5996.8	5556.2	5086.9	4674.9	4270.1	3962.1	3829.5	3800.9
12.5°	6870.9	6727.6	6254.7	5681.6	5043.9	4370.4	3772.2	3267.1	2962.6	2790.6	2751.2
15°	6759.9	6587.9	5964.6	5194.4	4313.1	3474.9	2822.9	2335.7	2102.8	2002.5	2031.2
17.5°	6770.6	6512.7	5674.4	4678.5	3593.1	2550.6	1927.3	1676.5	1615.6	1640.7	1640.7
20°	6759.9	6344.3	5323.3	4083.9	2751.2	1769.7	1415.0	1325.5	1364.9	1443.7	1425.8
22.5°	6702.5	6265.5	5000.9	3456.9	2024.0	1311.1	1135.6	1139.2	1200.1	1296.8	1318.3
25°	6745.5	6090.0	4592.5	2822.9	1475.9	1046.0	985.1	1010.2	1074.7	1146.3	1160.7
27.5°	6713.3	5964.6	4166.3	2192.4	1078.3	899.2	895.6	924.2	952.9	1006.6	1006.6
30°	6749.1	5849.9	3747.1	1630.0	888.4	823.9	809.6	831.1	859.8	870.5	866.9
32.5°	6881.7	5764.0	3263.5	1218.0	784.5	752.3	752.3	752.3	748.7	763.0	766.6
35°	7171.8	5778.3	2837.2	942.2	716.5	691.4	680.6	666.3	659.1	666.3	669.9
37.5°	7487.1	5771.1	2396.6	802.4	666.3	644.8	619.7	598.2	594.7	601.8	591.1
40°	7626.8	5839.2	1988.2	720.0	619.7	594.7	555.3	537.3	540.9	548.1	540.9
42.5°	7816.6	5860.7	1723.1	655.6	576.8	537.3	512.3	490.8	487.2	497.9	494.4
45°	7813.1	5738.9	1443.7	619.7	537.3	494.4	462.1	444.2	444.2	451.4	455.0
47.5°	8042.3	5721.0	1239.5	587.5	508.7	465.7	426.3	412.0	408.4	408.4	401.2
50°	8576.1	5971.7	1081.9	551.7	472.9	433.5	401.2	383.3	369.0	361.8	358.2
52.5°	9618.6	6752.7	960.1	508.7	433.5	401.2	372.6	358.2	340.3	322.4	318.8
54°	10628.8	7558.7	952.9	472.9	401.2	379.7	354.7	347.5	326.0	300.9	293.8
55°	11083.7	8028.0	978.0	444.2	379.7	365.4	343.9	336.7	315.2	286.6	283.0
57.5°	11459.9	8210.7	963.6	369.0	343.9	340.3	322.4	311.7	286.6	247.2	240.0
60°	9224.5	6208.2	691.4	326.0	315.2	308.1	293.8	286.6	254.3	211.4	207.8
62.5°	5828.5	3571.6	440.6	286.6	275.8	265.1	247.2	240.0	211.4	168.4	157.6
65°	2482.6	1479.5	297.3	254.3	236.4	218.5	204.2	193.4	168.4	125.4	121.8
67.5°	644.8	526.6	247.2	222.1	197.0	172.0	161.2	143.3	114.6	86.0	82.4
70°	290.2	265.1	207.8	186.3	157.6	132.5	118.2	100.3	75.2	57.3	53.7
72.5°	172.0	168.4	157.6	139.7	118.2	100.3	86.0	68.1	50.2	32.2	32.2
75°	107.5	103.9	107.5	96.7	82.4	75.2	64.5	46.6	28.7	14.3	14.3
77.5°	64.5	64.5	64.5	60.9	57.3	57.3	46.6	28.7	14.3	3.6	3.6
80°	50.2	50.2	53.7	50.2	50.2	50.2	39.4	21.5	7.2	0.0	0.0
82.5°	50.2	53.7	60.9	57.3	50.2	43.0	35.8	21.5	7.2	0.0	0.0
85°	14.3	10.7	17.9	25.1	35.8	32.2	25.1	17.9	7.2	0.0	0.0
87.5°	7.2	7.2	7.2	7.2	3.6	3.6	3.6	3.6	3.6	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)