

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: P533480

Luminaire Tested: **GALN-SA8D-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44793 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

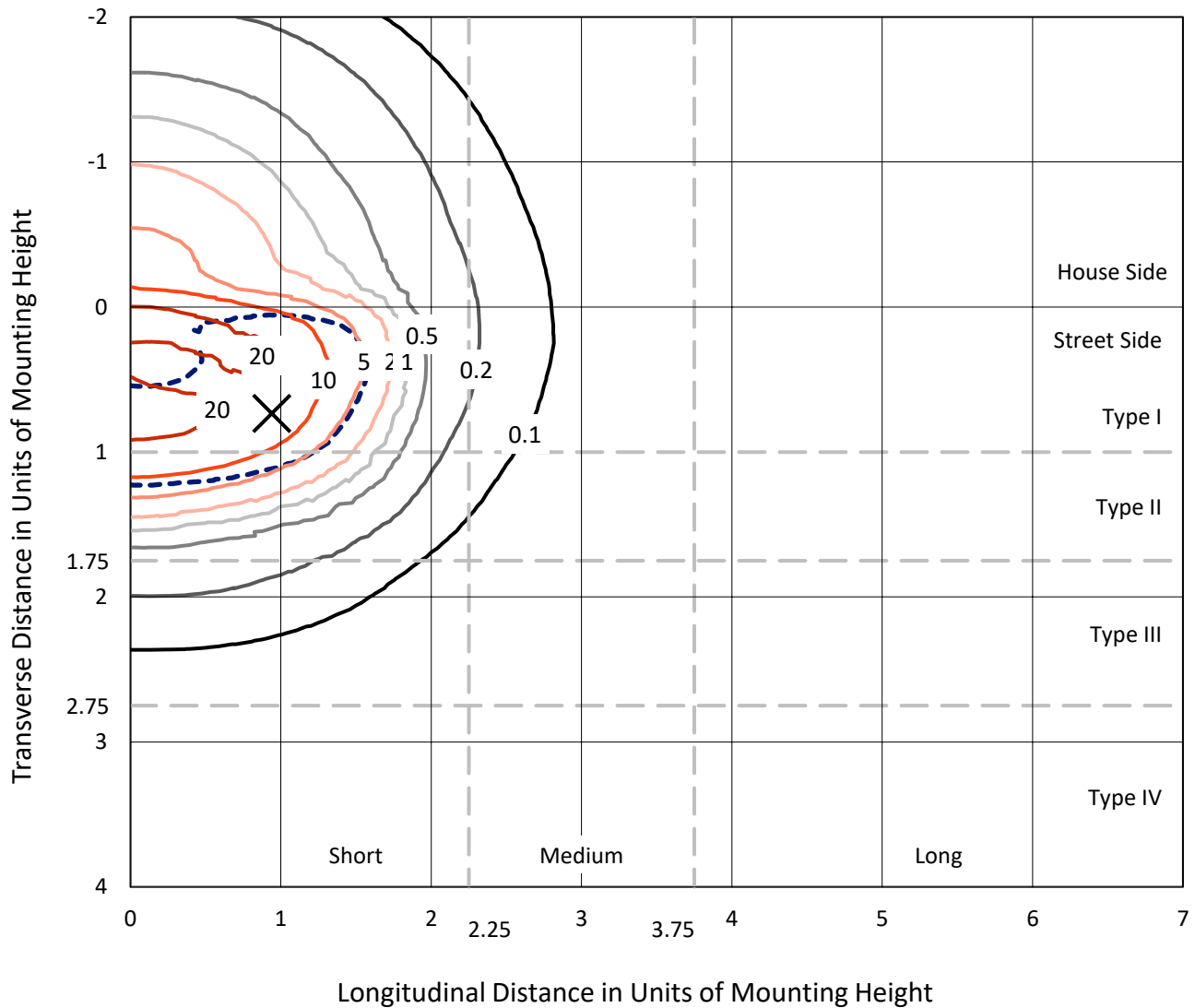
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533480
 CATALOG NUMBER: GALN-SA8D-830-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

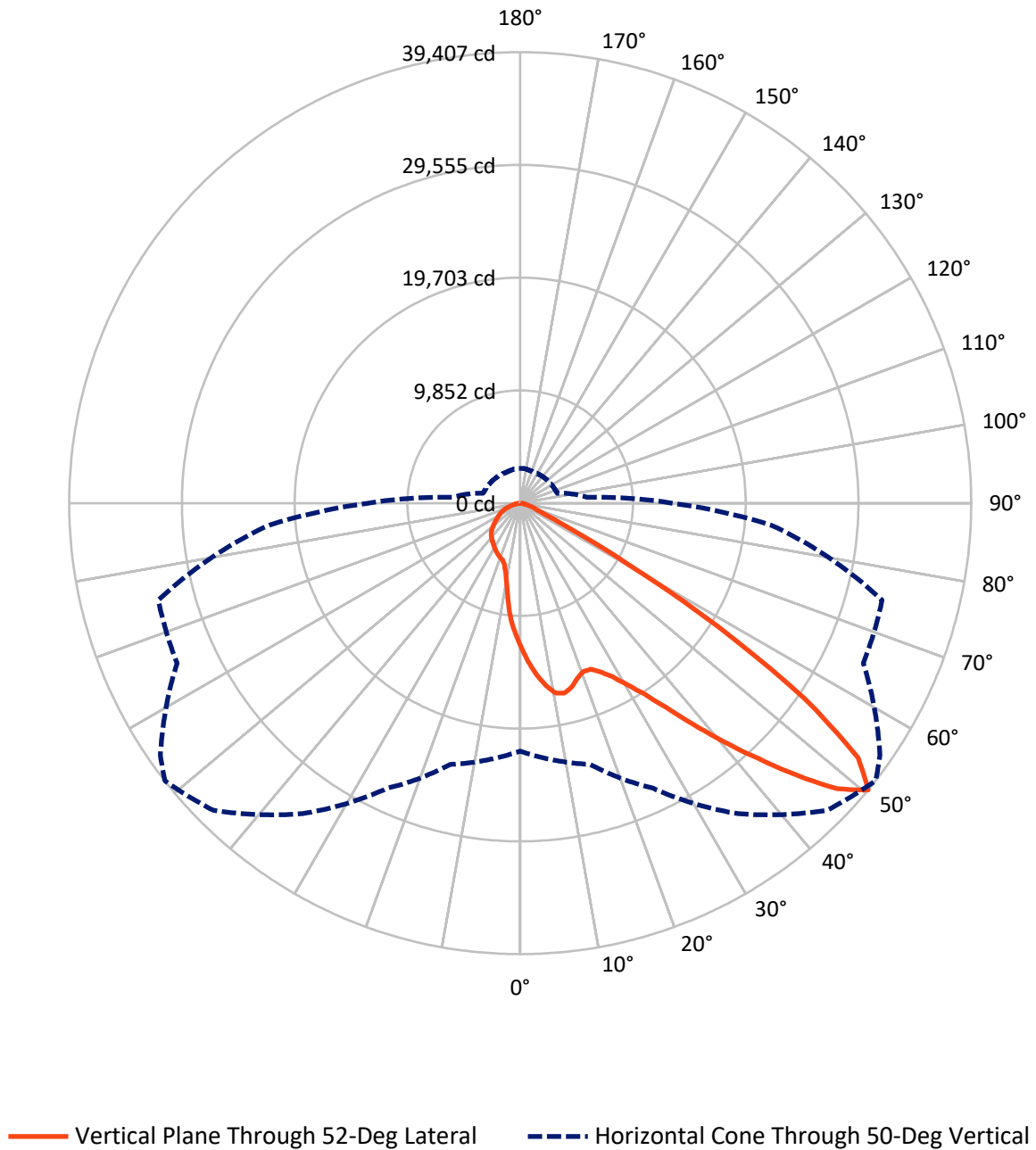


Based on 25 foot mounting height. Maximum calculated value = 25.8 fc
 Type II - Short - N/A

REPORT NUMBER: P533480

CATALOG NUMBER: GALN-SA8D-830-U-AFL-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P533480

CATALOG NUMBER: GALN-SA8D-830-U-AFL-GRSWH

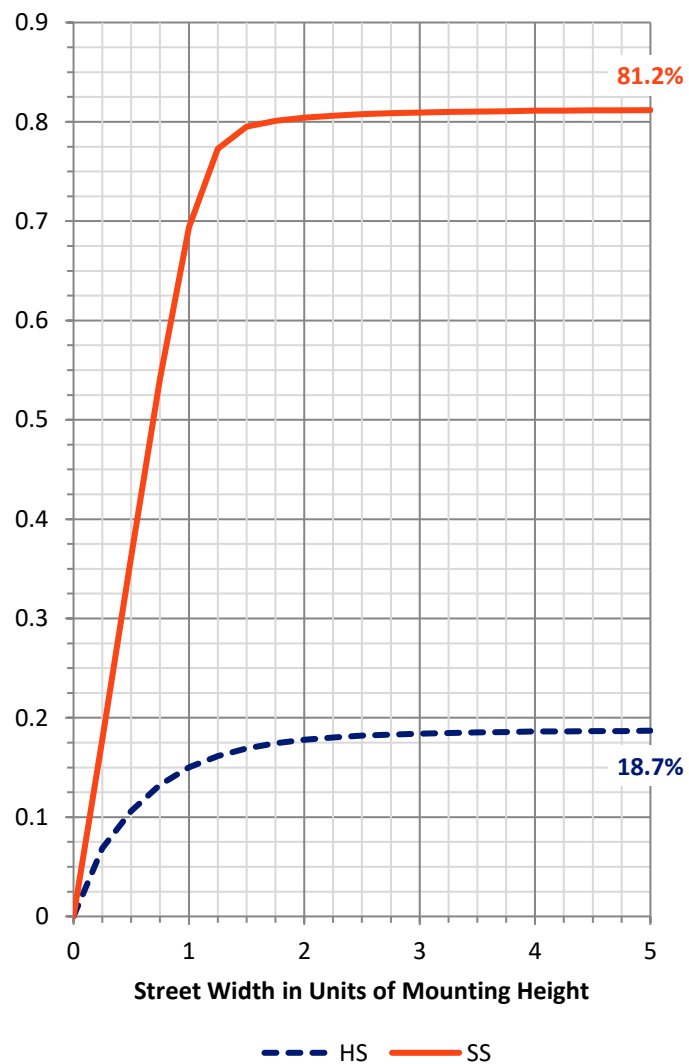
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8420.0	0.0	8420.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	36373.0	0.0	36373.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	44793.0	0.0	44793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1163.8	2.6
10°-20°	3119.2	7.0
20°-30°	5254.2	11.7
30°-40°	8816.9	19.7
40°-50°	13487.7	30.1
50°-60°	9833.6	22.0
60°-70°	2188.5	4.9
70°-80°	789.4	1.8
80°-90°	139.7	0.3
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°	44793.0	100.0
0°-180°	44793.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533480

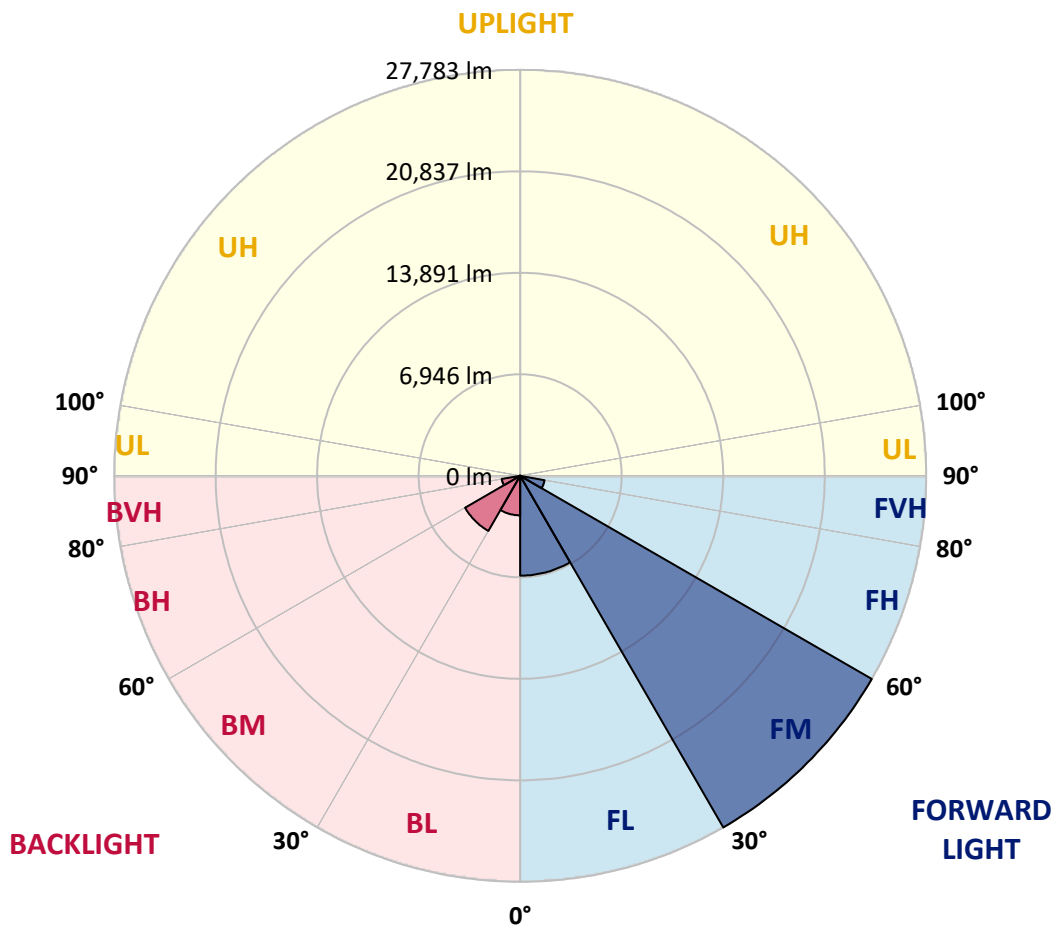
CATALOG NUMBER: GALN-SA8D-830-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6832.5	15.3			
FM	(30°-60°)	27782.9	62.0			
FH	(60°-80°)	1695.0	3.8			G1/1800
FVH	(80°-90°)	62.6	0.1			G1/100
BL	(0°-30°)	2704.7	6.0	B4/5000		
BM	(30°-60°)	4355.4	9.7	B3/5000		
BH	(60°-80°)	1282.8	2.9	B3/2500		G3/2500
BVH	(80°-90°)	77.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



REPORT NUMBER: P533480

CATALOG NUMBER: GALN-SA8D-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	12626.4	12626.4	12626.4	12626.4	12626.4	12626.4	12626.4	12626.4	12626.4	12626.4	12626.4
2.5°	14866.7	14580.6	14612.9	14407.8	14186.5	14121.7	13895.0	13679.1	13517.1	13171.6	12853.1
5°	16248.6	16162.2	16032.7	15870.7	15703.4	15293.1	15061.0	14791.1	14197.3	13662.9	13133.8
7.5°	16448.3	16432.1	16502.3	16502.3	16561.7	16405.1	16075.9	15886.9	15255.3	14386.2	13403.7
10°	15044.8	15093.4	15433.5	15876.1	16491.5	16918.0	16864.0	16815.4	16124.4	14936.8	13722.2
12.5°	13927.4	13819.4	14019.1	14397.0	15320.1	16351.2	17047.5	17052.9	16874.8	15816.7	13954.4
15°	13295.8	13371.4	13425.3	13603.5	14299.8	15492.9	16718.2	17079.9	17862.7	16437.5	14321.4
17.5°	13700.6	13446.9	13436.1	13479.3	13835.6	14731.7	16108.2	16729.0	18402.5	17236.5	14774.9
20°	14229.7	14224.3	14073.1	14019.1	14013.7	14812.7	15708.8	16550.9	18688.6	18272.9	15233.7
22.5°	15158.2	15158.2	14909.8	14791.1	14537.4	15190.6	15762.8	16335.0	19163.6	18985.5	15455.1
25°	16712.8	16459.1	16032.7	15741.2	15595.4	15827.5	16335.0	16847.8	19579.3	19741.2	15913.9
27.5°	18148.8	17749.3	17538.8	17036.7	16842.4	16707.4	17171.7	17689.9	20065.1	20918.0	16162.2
30°	19779.0	19708.9	19331.0	18683.2	18202.8	17954.4	18380.9	18893.7	20955.8	22121.8	16734.4
32.5°	22694.1	22057.1	21544.2	20750.7	19968.0	19438.9	19860.0	20200.1	22434.9	23379.6	17360.6
35°	25841.2	25636.1	24750.8	23320.3	22121.8	21646.8	21895.1	22148.8	24157.0	25301.4	18413.3
37.5°	28934.4	28653.7	27924.9	26721.1	25263.6	24297.3	24475.5	24772.4	26089.5	27892.5	19698.1
40°	31158.4	30813.0	30445.9	30267.7	28821.0	27498.5	27395.9	27471.5	28702.3	30321.7	21123.2
42.5°	31320.4	31746.9	31860.2	32578.2	32238.1	31153.0	30521.5	30537.7	31196.2	32723.9	22564.5
45°	30980.3	30586.2	31423.0	33382.5	34505.3	35012.8	33949.3	33814.4	32740.1	34116.7	23282.5
47.5°	27412.1	27520.1	28934.4	32033.0	35277.3	37544.5	37296.2	36848.2	33566.0	34068.1	23169.1
50°	21668.4	22321.6	23633.3	27493.1	33118.0	37944.0	39406.9	38370.4	33074.8	32729.3	22013.9
52.5°	14429.4	14699.3	15563.0	20545.6	26629.4	33916.9	36977.7	37215.2	32621.4	30974.9	20551.0
55°	6423.9	6402.3	7616.9	10731.6	16707.4	25808.8	30213.8	31660.5	30877.7	29188.1	19125.8
57.5°	2720.7	2812.5	3309.1	4637.1	8216.1	15573.8	20470.0	21738.6	23746.7	23968.0	14672.3
60°	1840.8	1851.6	1986.5	2321.2	3438.7	7314.6	10737.0	12259.3	13695.2	13598.1	7784.2
62.5°	1446.7	1484.5	1587.1	1722.0	2040.5	3319.9	4804.4	5651.9	5743.7	4831.4	2952.8
65°	1236.2	1241.6	1344.2	1457.5	1597.9	1932.6	2315.8	2359.0	2386.0	2299.6	2170.1
67.5°	1020.3	1031.1	1112.0	1241.6	1371.1	1479.1	1587.1	1641.1	1765.2	2008.1	1975.7
70°	809.7	825.9	896.1	1004.1	1122.8	1187.6	1322.6	1371.1	1484.5	1673.4	1749.0
72.5°	615.4	620.8	680.2	755.7	863.7	928.5	1041.9	1095.8	1171.4	1333.4	1403.5
75°	442.7	458.8	502.0	539.8	556.0	599.2	707.2	766.5	874.5	944.7	950.1
77.5°	232.1	242.9	253.7	253.7	307.7	388.7	458.8	491.2	566.8	620.8	593.8
80°	91.8	97.2	124.2	167.3	215.9	280.7	329.3	345.5	410.3	442.7	458.8
82.5°	54.0	59.4	81.0	118.8	156.5	199.7	237.5	253.7	296.9	334.7	345.5
85°	27.0	32.4	48.6	75.6	102.6	124.2	118.8	113.4	113.4	108.0	113.4
87.5°	10.8	10.8	16.2	16.2	16.2	21.6	27.0	27.0	27.0	32.4	32.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P533480

CATALOG NUMBER: GALN-SA8D-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12626.4	12626.4	12626.4	12626.4	12626.4	12626.4	12626.4	12626.4	12626.4	12626.4	12626.4
2.5°	12642.6	12426.7	12226.9	11859.9	11460.4	11347.0	10882.8	10715.4	10596.7	10456.3	10413.1
5°	12707.4	12421.3	11778.9	11039.3	10450.9	9695.2	9198.5	8664.1	8275.4	8178.3	8151.3
7.5°	12842.3	12351.1	11244.5	10127.0	8923.2	7897.6	7114.8	6693.8	6321.3	6299.7	6261.9
10°	12993.5	12140.6	10661.5	8907.0	7368.6	6418.5	5948.8	5765.3	5673.5	5651.9	5641.1
12.5°	13117.6	12097.4	10008.3	7719.4	6267.3	5695.1	5554.8	5538.6	5576.3	5587.1	5608.7
15°	13171.6	11924.6	9220.1	6656.0	5581.7	5371.2	5430.6	5495.4	5522.4	5592.5	5538.6
17.5°	13274.2	11703.3	8248.5	5813.9	5198.5	5236.3	5338.8	5414.4	5457.6	5506.2	5436.0
20°	13328.2	11503.6	7336.2	5311.8	5063.5	5133.7	5274.0	5333.4	5387.4	5409.0	5328.0
22.5°	13279.6	11093.3	6531.8	4907.0	4934.0	5025.7	5149.9	5214.7	5182.3	5095.9	5047.3
25°	13150.0	10515.7	5695.1	4647.9	4750.4	4912.4	5009.5	4961.0	4901.6	4853.0	4836.8
27.5°	13144.6	9808.5	5090.5	4410.3	4593.9	4815.2	4782.8	4739.6	4766.6	4728.8	4685.6
30°	13171.6	9123.0	4593.9	4275.4	4480.5	4588.5	4626.3	4583.1	4615.5	4545.3	4566.9
32.5°	13031.3	8453.6	4270.0	4118.8	4345.6	4340.2	4464.3	4496.7	4421.1	4275.4	4297.0
35°	13090.6	7913.8	3994.7	4048.7	4194.4	4194.4	4291.6	4253.8	4054.1	3967.7	3989.3
37.5°	13500.9	7384.7	3859.7	3951.5	4048.7	4091.8	4059.5	3897.5	3848.9	3848.9	3859.7
40°	13889.6	6931.3	3778.7	3929.9	3913.7	3940.7	3703.2	3719.4	3719.4	3724.8	3697.8
42.5°	14235.1	6623.6	3714.0	3800.3	3827.3	3687.0	3541.2	3525.0	3562.8	3557.4	3535.8
45°	14359.2	6369.9	3622.2	3654.6	3676.2	3444.1	3373.9	3341.5	3384.7	3400.9	3422.5
47.5°	13884.2	6159.4	3519.6	3454.9	3411.7	3260.5	3168.7	3109.4	3163.3	3255.1	3276.7
50°	13274.2	5884.0	3357.7	3233.5	3141.8	3077.0	3012.2	2952.8	2990.6	3055.4	3039.2
52.5°	12372.7	5452.2	3152.6	3023.0	2866.4	2882.6	2823.3	2790.9	2812.5	2812.5	2796.3
55°	11087.9	4480.5	2807.1	2715.3	2585.7	2628.9	2639.7	2596.5	2553.4	2591.1	2558.7
57.5°	7568.3	3163.3	2504.8	2504.8	2375.2	2434.6	2429.2	2326.6	2224.1	2234.9	2213.3
60°	4377.9	2521.0	2310.4	2288.8	2153.9	2202.5	2213.3	2143.1	1986.5	1997.3	1975.7
62.5°	2488.6	2153.9	2018.9	1986.5	1959.5	2002.7	2002.7	1911.0	1776.0	1786.8	1765.2
65°	2116.1	1997.3	1803.0	1797.6	1786.8	1797.6	1754.4	1657.2	1538.5	1489.9	1495.3
67.5°	1921.8	1846.2	1657.2	1608.7	1576.3	1570.9	1489.9	1398.1	1344.2	1301.0	1295.6
70°	1684.2	1624.9	1484.5	1419.7	1387.3	1311.8	1230.8	1171.4	1095.8	1074.2	1095.8
72.5°	1333.4	1328.0	1274.0	1203.8	1133.6	1074.2	1004.1	923.1	852.9	836.7	798.9
75°	923.1	933.9	944.7	933.9	874.5	798.9	718.0	653.2	566.8	518.2	507.4
77.5°	604.6	620.8	637.0	615.4	577.6	507.4	453.4	372.5	307.7	269.9	264.5
80°	442.7	464.2	475.0	458.8	415.7	361.7	302.3	237.5	188.9	156.5	156.5
82.5°	340.1	361.7	372.5	345.5	302.3	259.1	215.9	167.3	129.6	102.6	97.2
85°	118.8	113.4	135.0	140.4	167.3	156.5	129.6	97.2	75.6	54.0	48.6
87.5°	32.4	32.4	37.8	37.8	32.4	27.0	27.0	27.0	21.6	16.2	16.2
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)