

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: P531620

Luminaire Tested: **GALN-SA6D-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30577 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 368
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

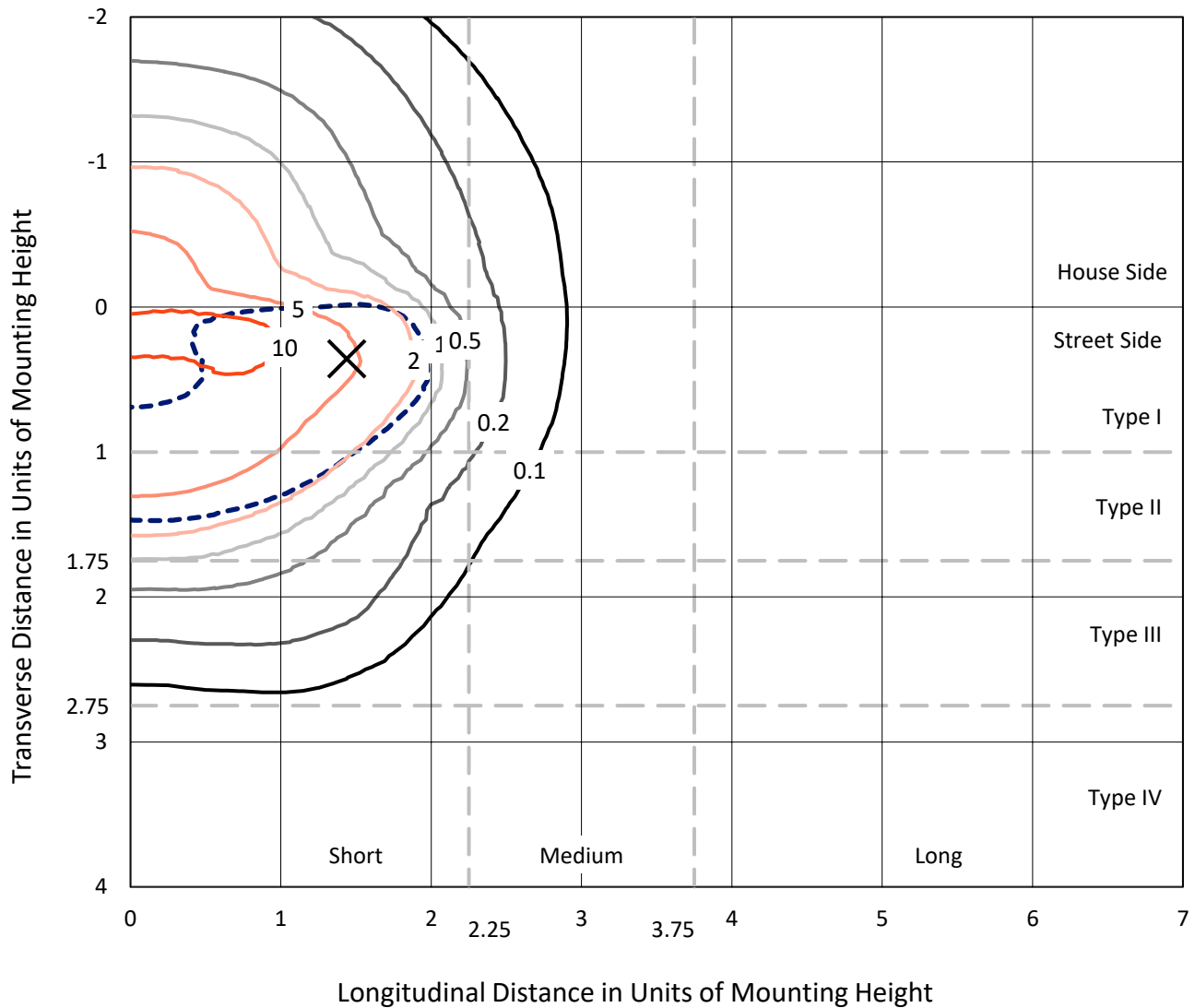


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

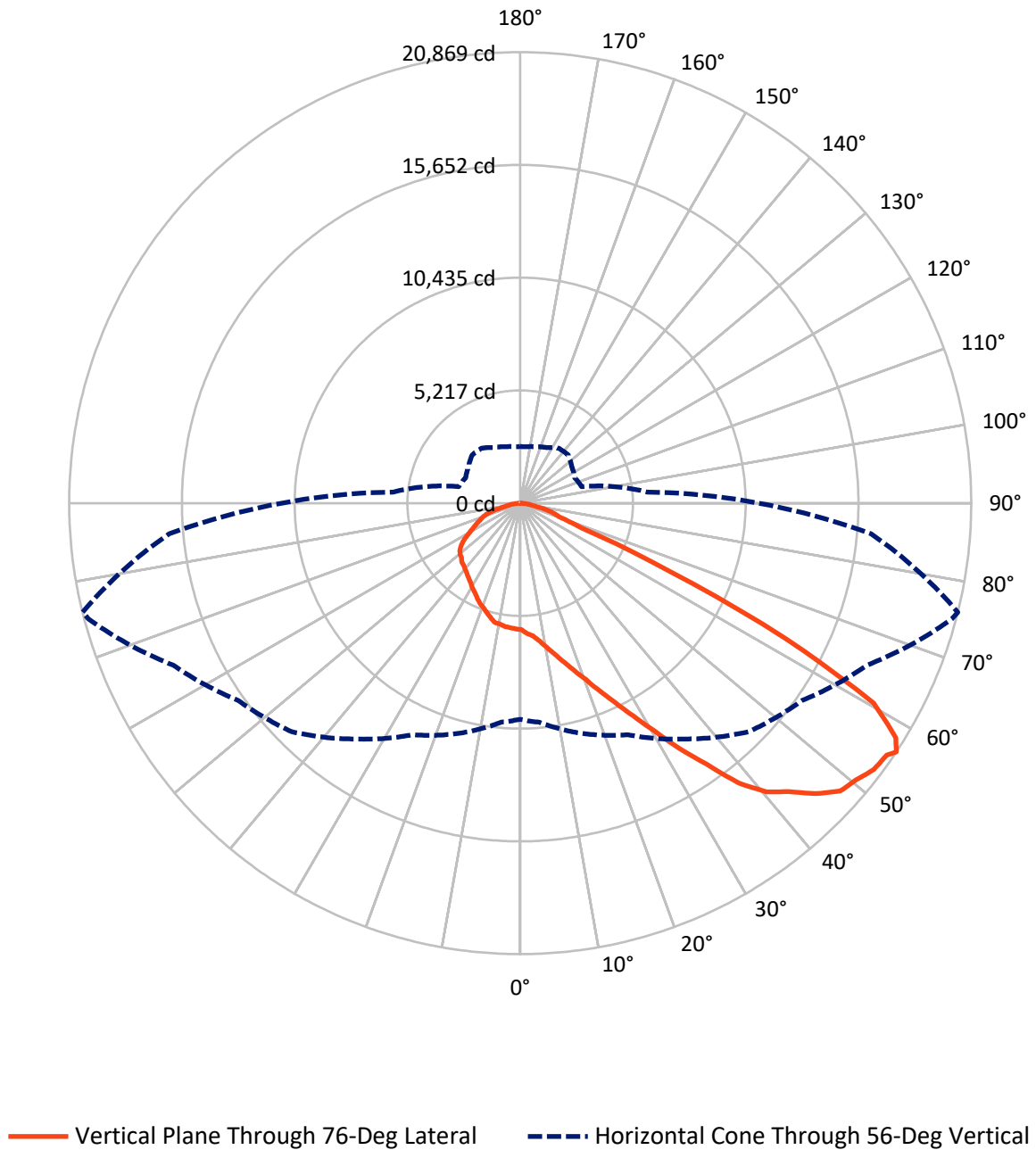


Based on 25 foot mounting height. Maximum calculated value = 13 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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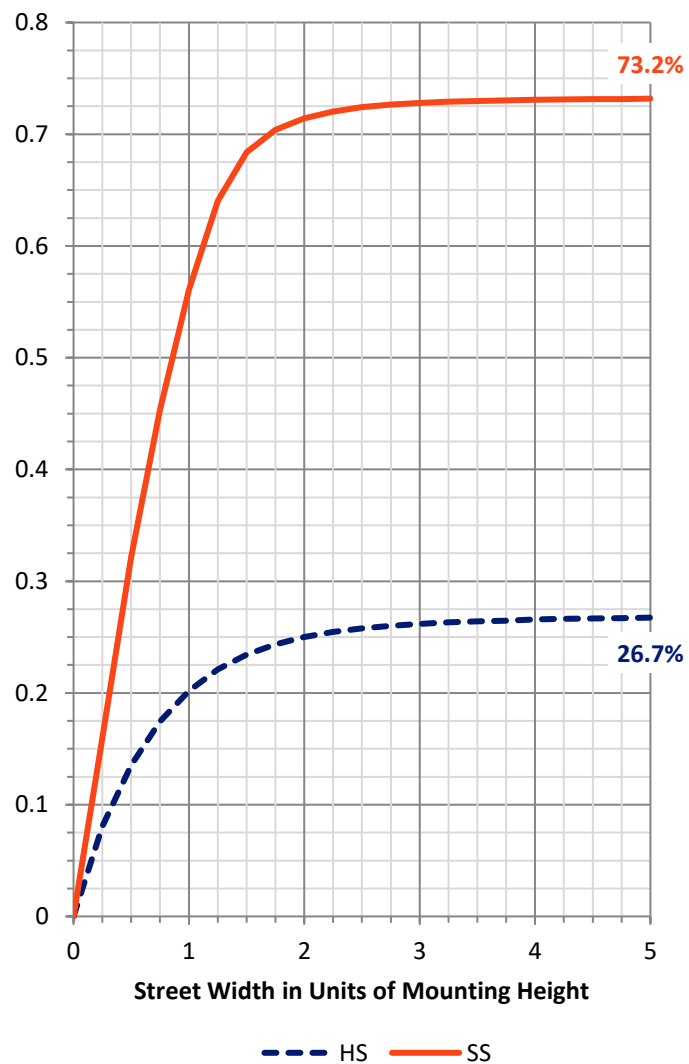
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8221.2	0.0	8221.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	22355.8	0.0	22355.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	30577.0	0.0	30577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.2	1.9
10°-20°	1822.6	6.0
20°-30°	3187.5	10.4
30°-40°	4990.6	16.3
40°-50°	7259.9	23.7
50°-60°	7979.1	26.1
60°-70°	3561.5	11.6
70°-80°	1028.7	3.4
80°-90°	166.9	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°	30577.0	100.0
0°-180°	30577.0	100.0

Coefficient of Utilization



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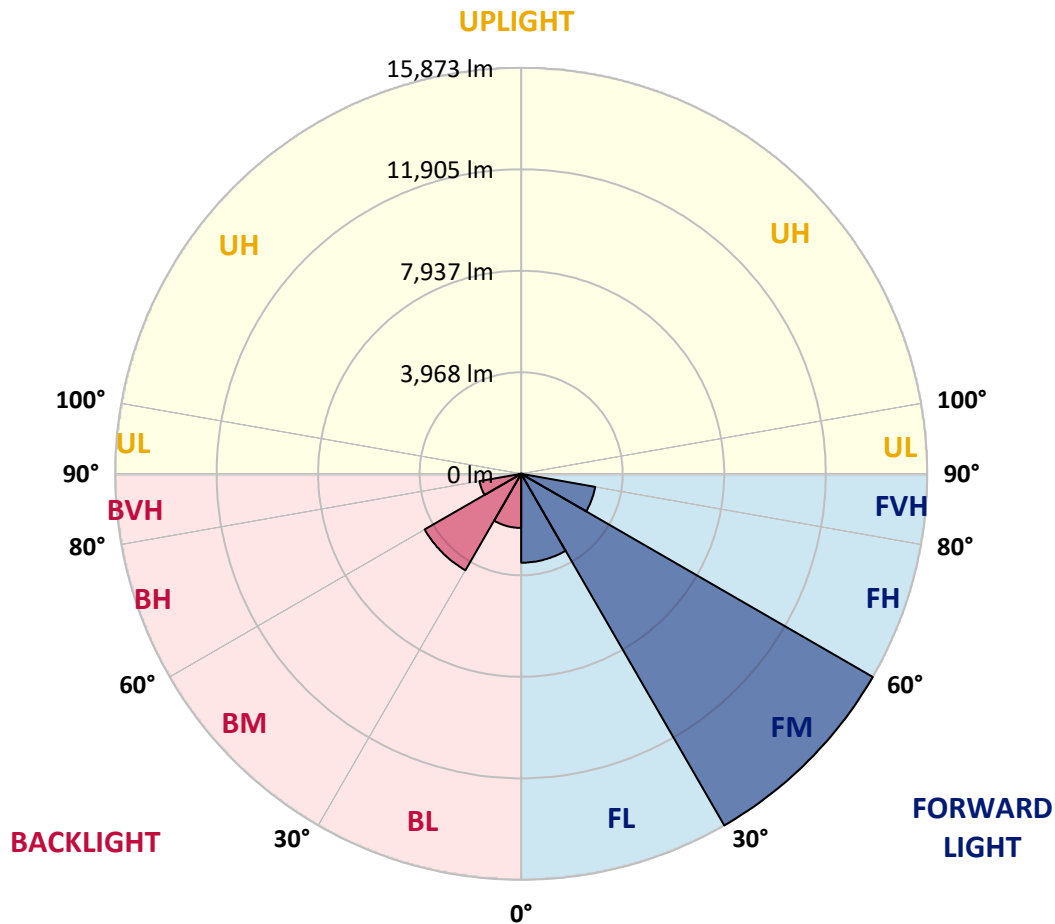
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3474.7	11.4			
FM	(30°-60°)	15873.1	51.9			
FH	(60°-80°)	2936.1	9.6			G2/5000
FVH	(80°-90°)	71.8	0.2			G1/100
BL	(0°-30°)	2115.5	6.9	B3/2500		
BM	(30°-60°)	4356.6	14.2	B3/5000		
BH	(60°-80°)	1654.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	95.0	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5850.5	5850.5	5850.5	5850.5	5850.5	5850.5	5850.5	5850.5	5850.5	5850.5	5850.5
2.5°	6445.1	6342.0	6334.1	6306.3	6322.2	6250.9	6175.5	6076.5	5973.4	6036.8	5886.2
5°	6897.0	6758.2	6813.7	6718.6	6730.5	6635.3	6480.8	6365.8	6239.0	6163.7	6056.6
7.5°	7055.5	7067.4	7107.0	7091.2	7011.9	7011.9	6908.8	6706.7	6484.7	6441.1	6262.7
10°	7269.5	7273.5	7229.9	7241.8	7352.8	7301.3	7210.1	7122.9	6837.5	6786.0	6468.9
12.5°	7344.9	7273.5	7344.9	7408.3	7539.1	7610.4	7590.6	7527.2	7222.0	7186.3	6722.5
15°	7356.7	7313.1	7372.6	7515.3	7630.2	7931.5	8082.1	8038.5	7634.2	7638.2	7007.9
17.5°	7301.3	7360.7	7384.5	7507.4	7772.9	8054.4	8490.4	8549.8	8216.9	8165.4	7368.6
20°	7376.6	7333.0	7364.7	7475.7	7828.4	8268.4	8839.2	9231.6	8763.9	8728.2	7741.2
22.5°	7665.9	7606.5	7598.5	7669.9	7923.6	8379.4	9207.8	9913.4	9429.8	9449.6	8205.0
25°	7891.9	7923.6	7895.8	7891.9	8050.4	8545.9	9695.4	10725.9	10333.5	10218.6	8752.0
27.5°	8280.3	8355.6	8300.1	8375.4	8339.8	8795.6	10044.2	11625.7	11308.6	11154.0	9247.5
30°	8819.4	8859.0	8807.5	8807.5	8700.5	9144.4	10361.3	12565.1	12434.3	12224.2	9830.1
32.5°	9528.9	9588.3	9485.3	9425.8	9410.0	9663.7	10932.1	13492.7	13714.6	13536.3	10603.1
35°	10468.3	10432.6	10309.8	10254.3	10040.2	10460.4	11780.3	14558.9	15141.6	14824.5	11538.5
37.5°	11296.7	11241.2	11233.3	10924.1	10975.7	11320.5	12501.7	15367.5	16524.9	16433.8	12525.5
40°	12069.7	12121.2	12204.4	12030.0	11950.7	12331.3	13342.0	15985.9	17599.1	17563.4	13286.5
42.5°	12898.1	12850.5	12997.2	12850.5	12731.6	13270.7	14253.7	16413.9	18542.5	18249.2	14083.3
45°	14099.1	13948.5	14000.0	14011.9	13924.7	14122.9	14630.3	16723.1	19204.4	19172.7	14665.9
47.5°	15101.9	15105.9	15018.7	14951.3	14685.7	14883.9	15050.4	16917.3	19965.5	19914.0	14891.9
50°	15474.5	15423.0	15676.7	15823.3	15839.2	15434.9	15379.4	17024.4	20365.8	20139.9	15117.8
52.5°	14134.8	14182.3	14582.7	15454.7	15958.1	16001.7	15763.9	17246.3	20528.3	20480.8	15300.1
55°	11376.0	11605.9	12263.9	13270.7	14463.8	15775.8	16180.1	17476.2	20615.5	20575.9	16108.7
56°	10000.6	10178.9	11035.1	11823.9	13322.2	14955.3	15918.5	17722.0	20682.9	20869.2	16299.0
57.5°	8050.4	8256.5	8870.9	9766.7	11534.6	13393.6	15197.1	17420.7	20421.3	20492.7	16437.7
60°	5034.0	5053.8	5791.1	6381.7	7626.3	9441.7	11598.0	15157.4	18899.2	18796.2	14765.0
62.5°	3301.8	3305.8	3975.7	4459.2	5026.1	5442.2	6825.6	10052.1	13944.5	13762.2	10511.9
65°	2318.8	2370.3	2889.6	3535.7	3765.6	3547.6	3504.0	5299.6	7788.8	7527.2	5648.4
67.5°	1696.5	1700.5	2160.3	2853.9	3186.9	2699.3	2192.0	2588.3	3083.8	3075.9	2616.1
70°	1121.7	1169.3	1522.1	2132.5	2513.0	2168.2	1791.6	1851.1	1962.1	1962.1	1946.2
72.5°	654.0	697.6	931.5	1351.6	1411.1	1355.6	1419.0	1585.5	1656.9	1652.9	1633.1
75°	372.6	392.4	443.9	562.9	701.6	828.4	1042.5	1201.0	1272.4	1316.0	1264.4
77.5°	218.0	229.9	261.6	321.1	364.7	447.9	566.8	677.8	772.9	761.0	769.0
80°	114.9	114.9	146.7	190.3	253.7	317.1	376.6	440.0	491.5	503.4	515.3
82.5°	67.4	71.3	95.1	138.7	182.3	225.9	289.4	333.0	380.5	384.5	392.4
85°	35.7	39.6	59.5	91.2	122.9	138.7	142.7	134.8	146.7	138.7	158.6
87.5°	11.9	11.9	19.8	15.9	15.9	19.8	23.8	23.8	31.7	31.7	31.7
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°	5850.5	5850.5	5850.5	5850.5	5850.5	5850.5	5850.5	5850.5	5850.5	5850.5	5850.5
2.5°	5882.2	5882.2	5814.8	5688.0	5668.2	5616.7	5569.1	5565.1	5529.5	5497.7	5481.9
5°	5993.2	5870.3	5771.2	5656.3	5521.5	5458.1	5386.8	5307.5	5275.8	5307.5	5303.5
7.5°	6120.1	6017.0	5719.7	5505.7	5351.1	5287.7	5208.4	5125.1	5133.1	5133.1	5077.6
10°	6242.9	6104.2	5628.5	5355.0	5129.1	5081.5	5037.9	5069.7	5109.3	5117.2	5081.5
12.5°	6449.0	6135.9	5584.9	5204.4	5061.7	4958.7	4986.4	5073.6	5156.9	5133.1	5160.8
15°	6603.6	6163.7	5386.8	5049.8	4871.5	4919.0	5018.1	5077.6	5216.3	5200.5	5228.2
17.5°	6754.3	6179.5	5192.5	4843.7	4768.4	4899.2	4974.5	5145.0	5188.6	5283.7	5319.4
20°	7063.4	6211.2	4994.3	4716.9	4693.1	4843.7	4974.5	5053.8	5148.9	5232.2	5232.2
22.5°	7222.0	6195.4	4863.5	4550.4	4625.7	4720.8	4839.8	4974.5	4974.5	5053.8	5057.8
25°	7420.2	6131.9	4657.4	4471.1	4526.6	4617.8	4752.6	4705.0	4756.5	4756.5	4819.9
27.5°	7646.1	5997.2	4479.1	4328.4	4439.4	4538.5	4558.3	4526.6	4467.2	4459.2	4435.5
30°	7828.4	5830.7	4348.2	4280.9	4372.0	4427.5	4364.1	4296.7	4193.7	4185.7	4130.2
32.5°	8078.2	5624.6	4185.7	4162.0	4265.0	4269.0	4249.2	4146.1	3995.5	3932.1	3868.6
35°	8498.3	5505.7	4062.9	4098.5	4130.2	4118.4	4082.7	3971.7	3821.1	3793.3	3769.5
37.5°	8807.5	5418.5	3936.0	3979.6	4007.4	4023.2	3916.2	3793.3	3797.3	3741.8	3725.9
40°	9156.3	5363.0	3833.0	3852.8	3856.7	3908.3	3777.5	3718.0	3745.8	3710.1	3733.9
42.5°	9604.2	5378.8	3725.9	3710.1	3785.4	3765.6	3702.2	3622.9	3638.7	3531.7	3547.6
45°	9842.0	5485.9	3662.5	3591.2	3674.4	3670.4	3587.2	3511.9	3416.8	3210.6	3218.6
47.5°	10000.6	5513.6	3511.9	3464.3	3551.5	3603.1	3507.9	3333.5	3198.8	3052.1	3016.4
50°	10163.1	5565.1	3440.5	3341.5	3377.1	3500.0	3381.1	3214.6	3083.8	2953.0	2972.8
52.5°	10305.8	5664.2	3301.8	3155.2	3218.6	3353.3	3289.9	3087.8	2945.1	2838.1	2806.3
55°	10940.0	5886.2	3068.0	2877.7	3028.3	3198.8	3163.1	2917.3	2762.7	2707.3	2699.3
56°	11039.1	5894.1	2945.1	2782.6	2921.3	3147.2	3103.6	2842.0	2703.3	2616.1	2620.0
57.5°	11054.9	5799.0	2770.7	2695.4	2814.3	3071.9	3016.4	2782.6	2592.3	2513.0	2489.2
60°	9727.1	4526.6	2552.7	2505.1	2643.8	2842.0	2822.2	2620.0	2406.0	2314.8	2358.4
62.5°	6631.4	3317.7	2382.2	2374.3	2445.6	2639.9	2588.3	2406.0	2227.6	2168.2	2140.4
65°	3860.7	2517.0	2215.7	2184.0	2243.5	2346.5	2382.2	2192.0	2005.7	1966.0	1954.1
67.5°	2279.2	2081.0	2001.7	1950.2	1930.4	1993.8	2021.5	1910.5	1724.2	1668.7	1716.3
70°	1906.6	1851.1	1855.0	1767.8	1720.3	1676.7	1652.9	1553.8	1399.2	1327.9	1308.0
72.5°	1645.0	1621.2	1605.3	1526.0	1482.4	1383.4	1280.3	1181.2	1066.3	1006.8	1010.8
75°	1256.5	1248.6	1256.5	1216.9	1141.6	1062.3	967.2	840.3	753.1	677.8	693.7
77.5°	749.2	772.9	784.8	769.0	737.3	665.9	606.5	523.2	440.0	380.5	372.6
80°	515.3	535.1	554.9	535.1	503.4	451.9	388.4	325.0	265.6	233.9	225.9
82.5°	392.4	412.2	424.1	404.3	364.7	309.2	265.6	222.0	174.4	142.7	134.8
85°	142.7	162.5	158.6	190.3	206.1	198.2	170.4	130.8	99.1	71.3	67.4
87.5°	39.6	35.7	39.6	39.6	39.6	35.7	31.7	31.7	31.7	19.8	15.9
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)