

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: P532790

Luminaire Tested: **GALN-SA8A-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532790
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-SA8A-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 24614 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 244
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



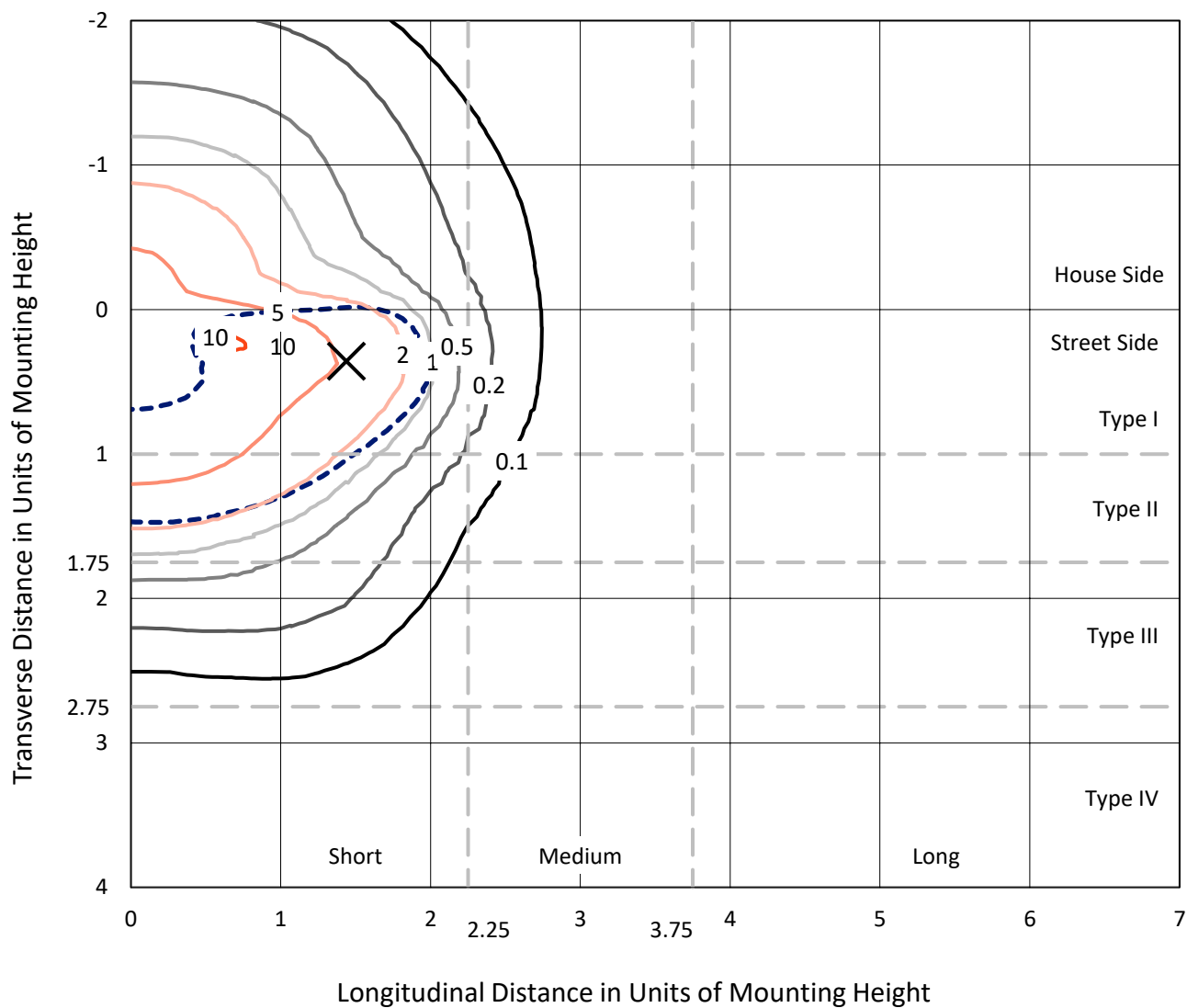
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

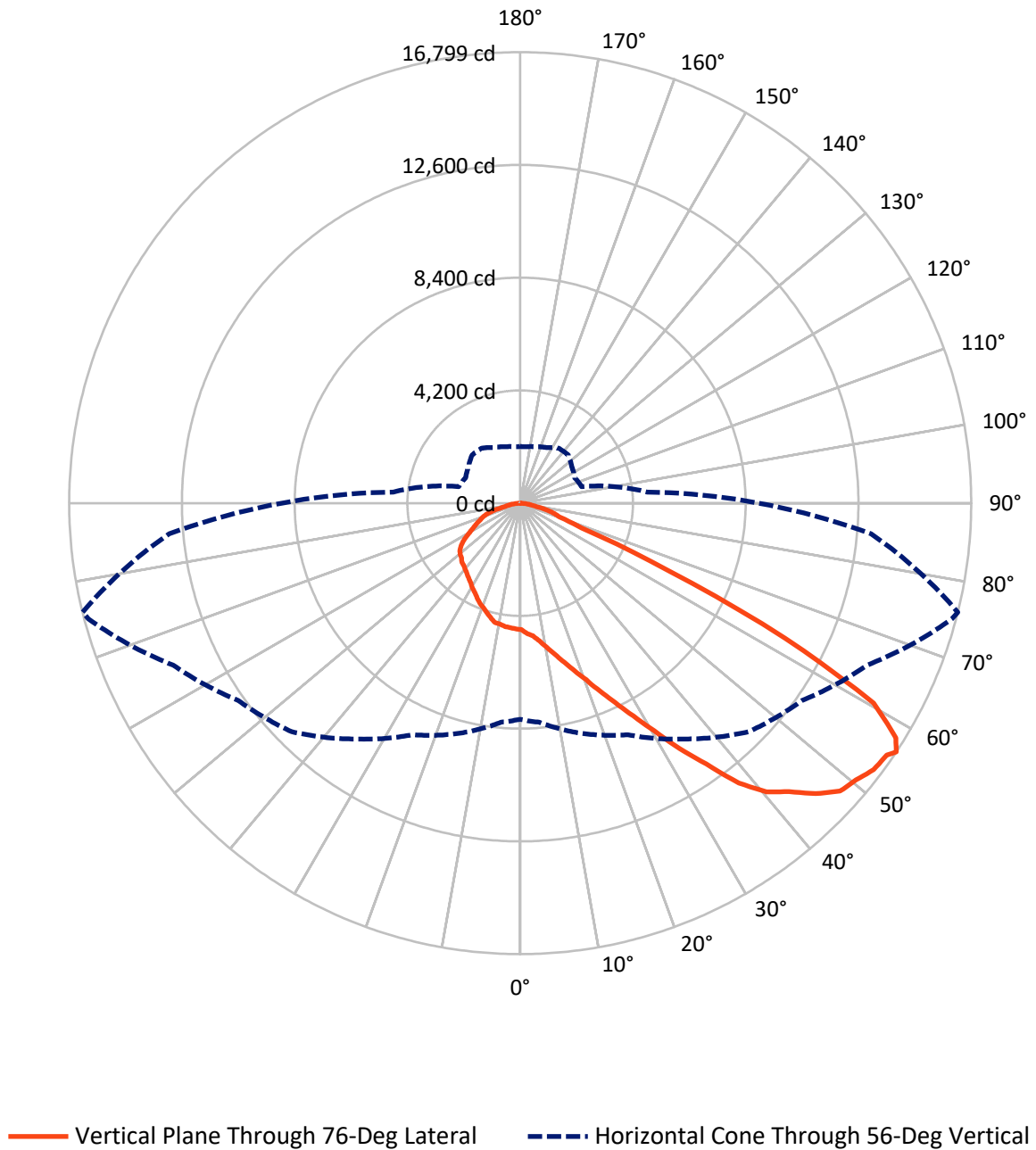


Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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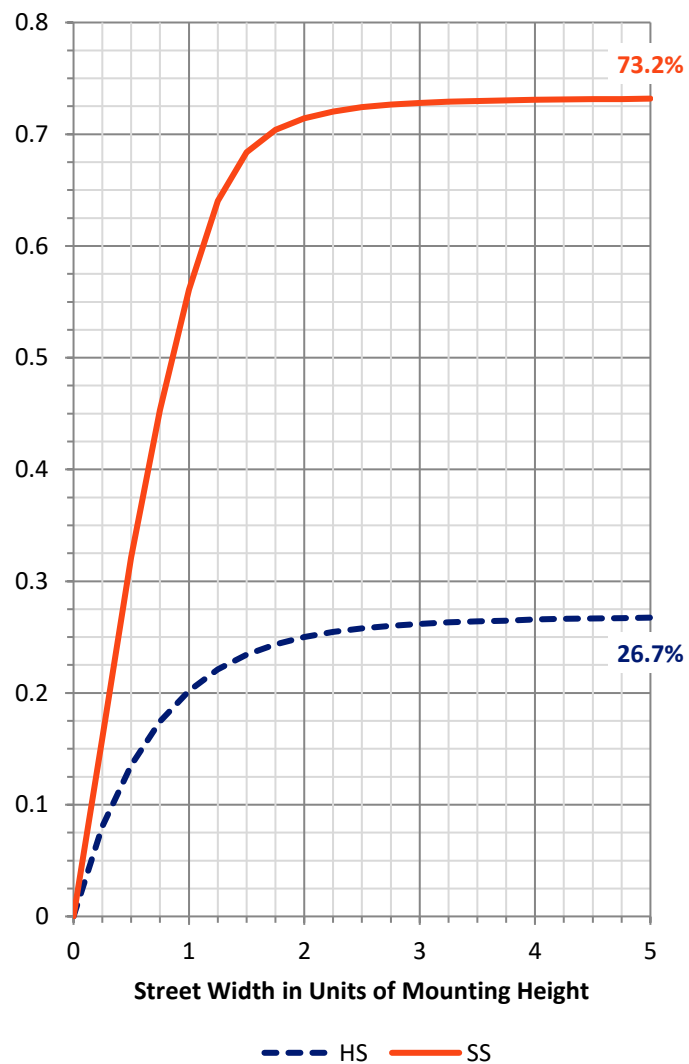
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6618.0	0.0	6618.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	17996.0	0.0	17996.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	24614.0	0.0	24614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.0	1.9
10°-20°	1467.1	6.0
20°-30°	2565.9	10.4
30°-40°	4017.4	16.3
40°-50°	5844.1	23.7
50°-60°	6423.1	26.1
60°-70°	2867.0	11.6
70°-80°	828.1	3.4
80°-90°	134.3	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°	24614.0	100.0
0°-180°	24614.0	100.0

Coefficient of Utilization



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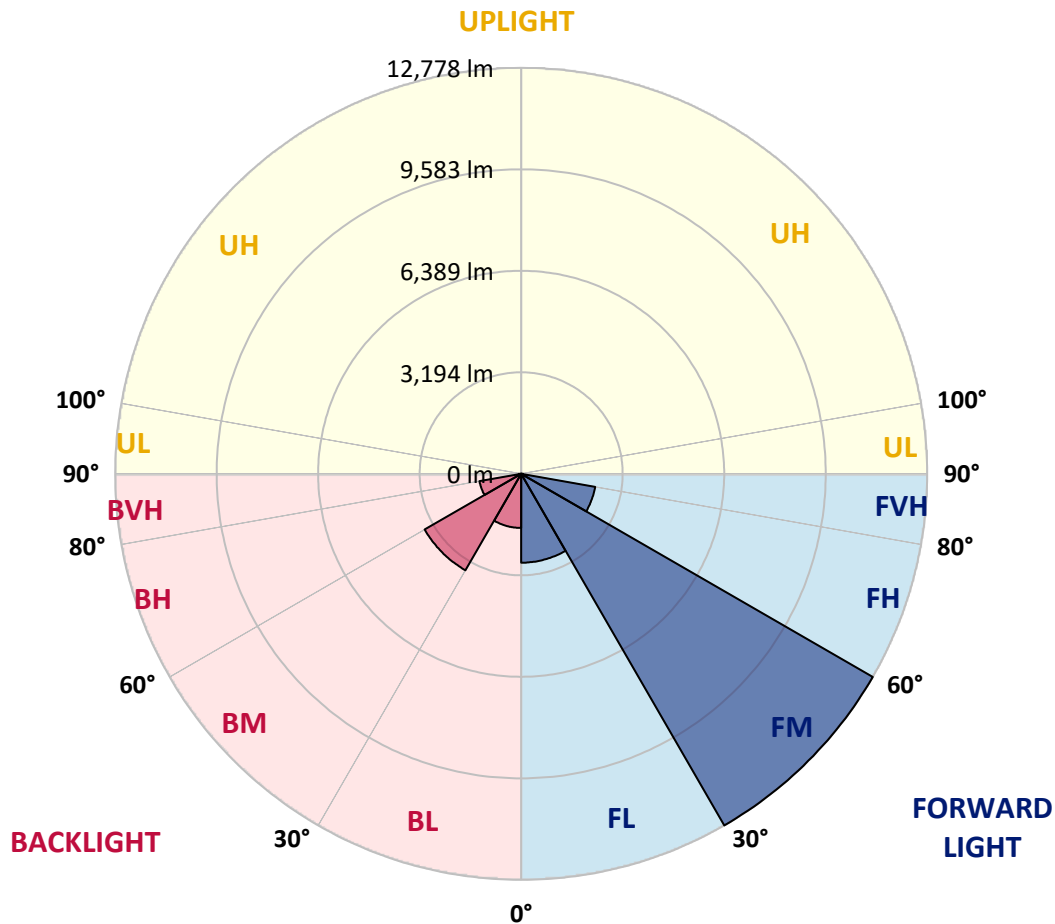
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2797.1	11.4			
FM	(30°-60°)	12777.6	51.9			
FH	(60°-80°)	2363.5	9.6			G2/5000
FVH	(80°-90°)	57.8	0.2			G1/100
BL	(0°-30°)	1702.9	6.9	B3/2500		
BM	(30°-60°)	3507.0	14.2	B3/5000		
BH	(60°-80°)	1331.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	76.5	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°	4709.6	4709.6	4709.6	4709.6	4709.6	4709.6	4709.6	4709.6	4709.6	4709.6	4709.6
2.5°	5188.2	5105.2	5098.8	5076.5	5089.3	5031.8	4971.2	4891.4	4808.5	4859.5	4738.3
5°	5551.9	5440.3	5484.9	5408.4	5417.9	5341.3	5216.9	5124.4	5022.3	4961.6	4875.5
7.5°	5679.6	5689.1	5721.0	5708.3	5644.5	5644.5	5561.5	5398.8	5220.1	5185.0	5041.4
10°	5851.9	5855.1	5820.0	5829.5	5918.9	5877.4	5804.0	5733.8	5504.1	5462.6	5207.3
12.5°	5912.5	5855.1	5912.5	5963.5	6068.8	6126.3	6110.3	6059.3	5813.6	5784.9	5411.5
15°	5922.1	5887.0	5934.8	6049.7	6142.2	6384.7	6506.0	6470.9	6145.4	6148.6	5641.3
17.5°	5877.4	5925.3	5944.4	6043.3	6257.1	6483.6	6834.6	6882.5	6614.5	6573.0	5931.6
20°	5938.0	5902.9	5928.4	6017.8	6301.8	6655.9	7115.4	7431.3	7054.8	7026.1	6231.6
22.5°	6170.9	6123.1	6116.7	6174.1	6378.3	6745.3	7412.2	7980.1	7590.8	7606.8	6604.9
25°	6352.8	6378.3	6356.0	6352.8	6480.4	6879.3	7804.6	8634.2	8318.3	8225.8	7045.2
27.5°	6665.5	6726.1	6681.5	6742.1	6713.4	7080.3	8085.4	9358.5	9103.3	8978.8	7444.1
30°	7099.5	7131.4	7089.9	7089.9	7003.7	7361.1	8340.7	10114.7	10009.4	9840.3	7913.1
32.5°	7670.6	7718.5	7635.5	7587.6	7574.9	7779.1	8800.1	10861.4	11040.1	10896.5	8535.3
35°	8426.8	8398.1	8299.2	8254.5	8082.2	8420.4	9483.0	11719.7	12188.7	11933.5	9288.3
37.5°	9093.7	9049.0	9042.6	8793.8	8835.2	9112.8	10063.7	12370.6	13302.3	13228.9	10082.8
40°	9715.9	9757.4	9824.4	9684.0	9620.2	9926.5	10740.1	12868.4	14167.0	14138.3	10695.5
42.5°	10382.8	10344.5	10462.5	10344.5	10248.7	10682.7	11474.0	13213.0	14926.4	14690.3	11336.8
45°	11349.6	11228.3	11269.8	11279.4	11209.2	11368.7	11777.1	13461.8	15459.3	15433.7	11805.8
47.5°	12156.8	12160.0	12089.8	12035.6	11821.8	11981.3	12115.3	13618.2	16071.9	16030.4	11987.7
50°	12456.8	12415.3	12619.5	12737.5	12750.3	12424.8	12380.2	13704.3	16394.2	16212.3	12169.6
52.5°	11378.3	11416.6	11738.8	12440.8	12846.0	12881.1	12689.7	13883.0	16525.0	16486.7	12316.4
55°	9157.5	9342.6	9872.2	10682.7	11643.1	12699.3	13024.7	14068.1	16595.2	16563.3	12967.3
56°	8050.3	8193.9	8883.1	9518.1	10724.2	12038.8	12814.1	14265.9	16649.4	16799.4	13120.4
57.5°	6480.4	6646.4	7140.9	7862.1	9285.1	10781.6	12233.4	14023.4	16438.8	16496.3	13232.1
60°	4052.3	4068.2	4661.7	5137.1	6139.0	7600.4	9336.2	12201.5	15213.6	15130.6	11885.6
62.5°	2657.9	2661.1	3200.3	3589.6	4045.9	4380.9	5494.5	8091.8	11225.1	11078.3	8461.9
65°	1866.6	1908.1	2326.1	2846.2	3031.2	2855.7	2820.6	4266.1	6269.9	6059.3	4546.8
67.5°	1365.6	1368.8	1739.0	2297.4	2565.4	2172.9	1764.5	2083.6	2482.4	2476.0	2105.9
70°	903.0	941.3	1225.3	1716.6	2022.9	1745.3	1442.2	1490.1	1579.4	1579.4	1566.7
72.5°	526.5	561.6	749.8	1088.1	1135.9	1091.2	1142.3	1276.3	1333.7	1330.6	1314.6
75°	299.9	315.9	357.4	453.1	564.8	666.9	839.2	966.8	1024.2	1059.3	1017.9
77.5°	175.5	185.1	210.6	258.5	293.6	360.6	456.3	545.6	622.2	612.6	619.0
80°	92.5	92.5	118.1	153.2	204.2	255.3	303.1	354.2	395.7	405.2	414.8
82.5°	54.2	57.4	76.6	111.7	146.8	181.9	232.9	268.0	306.3	309.5	315.9
85°	28.7	31.9	47.9	73.4	98.9	111.7	114.9	108.5	118.1	111.7	127.6
87.5°	9.6	9.6	16.0	12.8	12.8	16.0	19.1	19.1	25.5	25.5	25.5
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°	4709.6	4709.6	4709.6	4709.6	4709.6	4709.6	4709.6	4709.6	4709.6	4709.6	4709.6
2.5°	4735.1	4735.1	4680.9	4578.8	4562.8	4521.3	4483.0	4479.8	4451.1	4425.6	4412.8
5°	4824.4	4725.5	4645.8	4553.2	4444.7	4393.7	4336.3	4272.4	4246.9	4272.4	4269.2
7.5°	4926.5	4843.6	4604.3	4432.0	4307.5	4256.5	4192.7	4125.7	4132.0	4132.0	4087.4
10°	5025.5	4913.8	4530.9	4310.7	4128.9	4090.6	4055.5	4081.0	4112.9	4119.3	4090.6
12.5°	5191.4	4939.3	4495.8	4189.5	4074.6	3991.7	4014.0	4084.2	4151.2	4132.0	4154.4
15°	5315.8	4961.6	4336.3	4065.0	3921.5	3959.7	4039.5	4087.4	4199.1	4186.3	4208.6
17.5°	5437.1	4974.4	4179.9	3899.1	3838.5	3943.8	4004.4	4141.6	4176.7	4253.3	4282.0
20°	5685.9	4999.9	4020.4	3797.0	3777.9	3899.1	4004.4	4068.2	4144.8	4211.8	4211.8
22.5°	5813.6	4987.2	3915.1	3663.0	3723.6	3800.2	3895.9	4004.4	4004.4	4068.2	4071.4
25°	5973.1	4936.1	3749.2	3599.2	3643.9	3717.2	3825.7	3787.4	3828.9	3828.9	3880.0
27.5°	6155.0	4827.6	3605.6	3484.3	3573.7	3653.4	3669.4	3643.9	3596.0	3589.6	3570.5
30°	6301.8	4693.6	3500.3	3446.0	3519.4	3564.1	3513.0	3458.8	3375.8	3369.5	3324.8
32.5°	6502.8	4527.7	3369.5	3350.3	3433.3	3436.5	3420.5	3337.5	3216.3	3165.2	3114.2
35°	6841.0	4432.0	3270.5	3299.3	3324.8	3315.2	3286.5	3197.1	3075.9	3053.6	3034.4
37.5°	7089.9	4361.8	3168.4	3203.5	3225.9	3238.6	3152.5	3053.6	3056.8	3012.1	2999.3
40°	7370.7	4317.1	3085.5	3101.4	3104.6	3146.1	3040.8	2992.9	3015.3	2986.6	3005.7
42.5°	7731.2	4329.9	2999.3	2986.6	3047.2	3031.2	2980.2	2916.4	2929.1	2843.0	2855.7
45°	7922.7	4416.0	2948.3	2890.8	2957.8	2954.7	2887.6	2827.0	2750.4	2584.5	2590.9
47.5°	8050.3	4438.4	2827.0	2788.7	2858.9	2900.4	2823.8	2683.4	2574.9	2456.9	2428.2
50°	8181.1	4479.8	2769.6	2689.8	2718.5	2817.4	2721.7	2587.7	2482.4	2377.1	2393.1
52.5°	8296.0	4559.6	2657.9	2539.9	2590.9	2699.4	2648.3	2485.6	2370.7	2284.6	2259.1
55°	8806.5	4738.3	2469.7	2316.5	2437.7	2574.9	2546.2	2348.4	2224.0	2179.3	2172.9
56°	8886.3	4744.7	2370.7	2239.9	2351.6	2533.5	2498.4	2287.8	2176.1	2105.9	2109.1
57.5°	8899.1	4668.1	2230.3	2169.7	2265.4	2472.8	2428.2	2239.9	2086.8	2022.9	2003.8
60°	7830.1	3643.9	2054.9	2016.6	2128.2	2287.8	2271.8	2109.1	1936.8	1863.4	1898.5
62.5°	5338.2	2670.7	1917.7	1911.3	1968.7	2125.1	2083.6	1936.8	1793.2	1745.3	1723.0
65°	3107.8	2026.1	1783.6	1758.1	1806.0	1888.9	1917.7	1764.5	1614.5	1582.6	1573.0
67.5°	1834.7	1675.2	1611.3	1569.9	1553.9	1605.0	1627.3	1537.9	1388.0	1343.3	1381.6
70°	1534.8	1490.1	1493.3	1423.1	1384.8	1349.7	1330.6	1250.8	1126.3	1068.9	1053.0
72.5°	1324.2	1305.0	1292.3	1228.4	1193.3	1113.6	1030.6	950.8	858.3	810.5	813.6
75°	1011.5	1005.1	1011.5	979.6	918.9	855.1	778.5	676.4	606.2	545.6	558.4
77.5°	603.1	622.2	631.8	619.0	593.5	536.0	488.2	421.2	354.2	306.3	299.9
80°	414.8	430.8	446.7	430.8	405.2	363.7	312.7	261.6	213.8	188.3	181.9
82.5°	315.9	331.8	341.4	325.5	293.6	248.9	213.8	178.7	140.4	114.9	108.5
85°	114.9	130.8	127.6	153.2	165.9	159.5	137.2	105.3	79.8	57.4	54.2
87.5°	31.9	28.7	31.9	31.9	31.9	28.7	25.5	25.5	25.5	16.0	12.8
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)