

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: P942969

Luminaire Tested: **GALN-SB7B-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7B-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32697 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 256.7
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



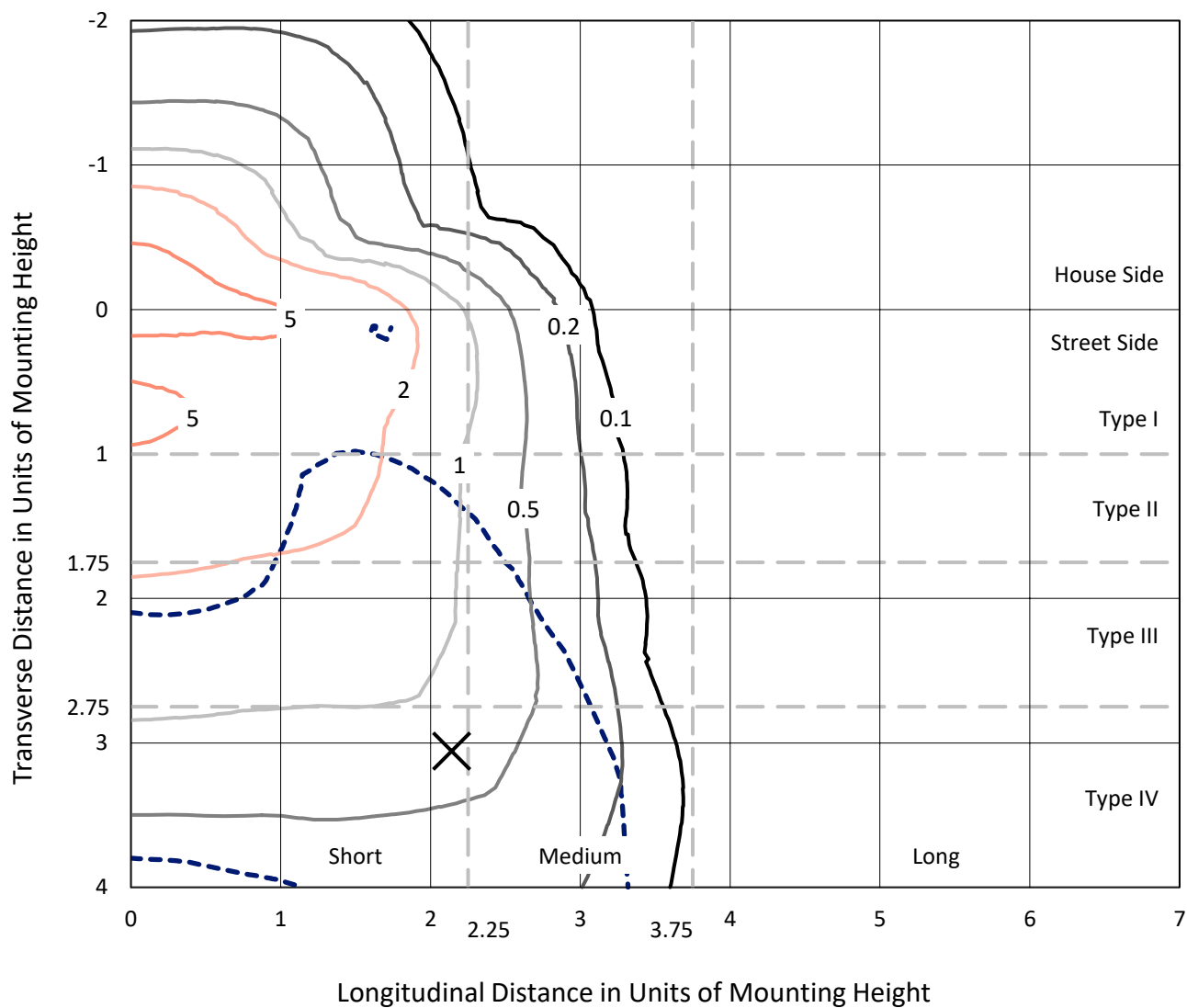
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



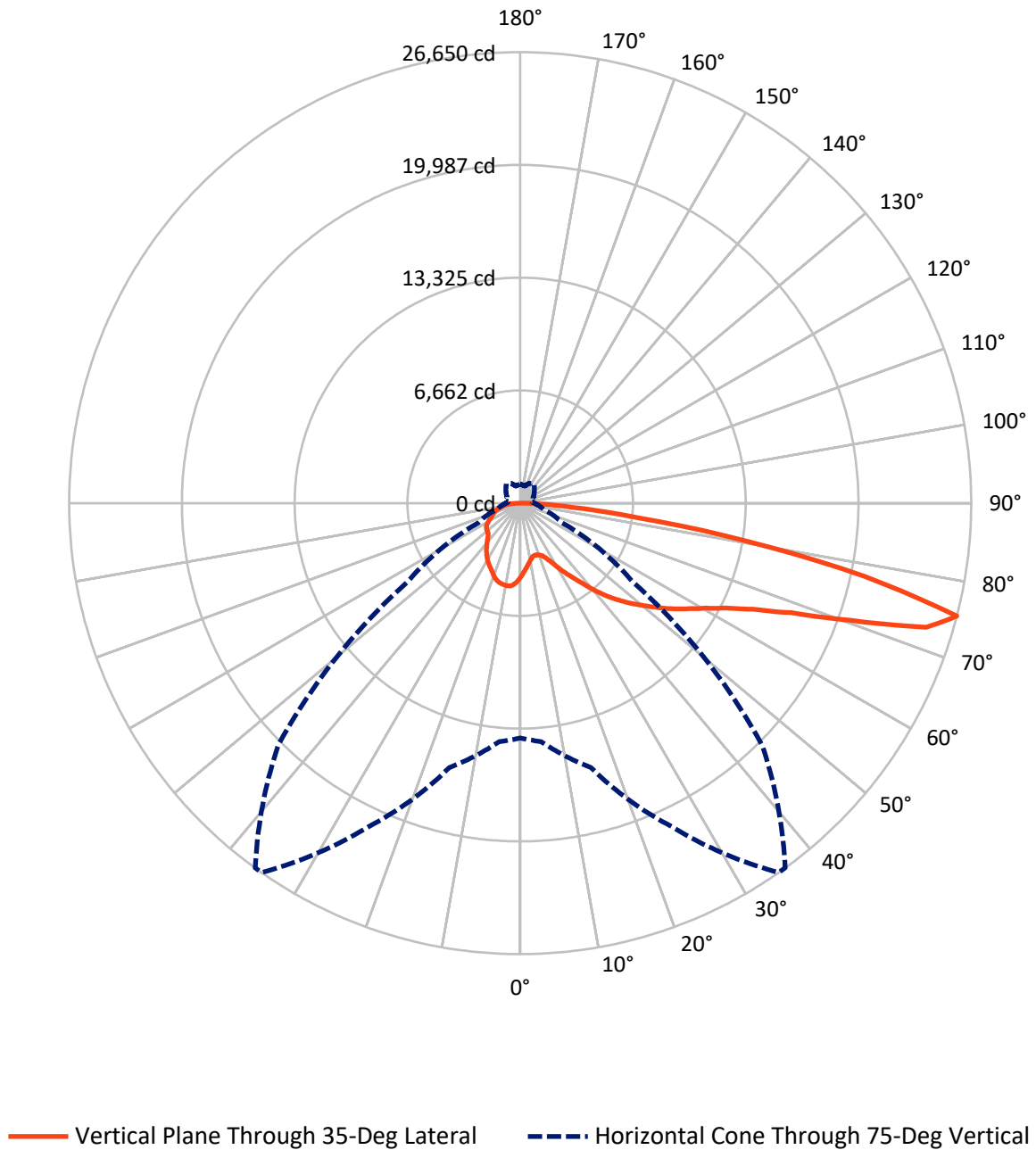
Based on 25 foot mounting height. Maximum calculated value = 7.7 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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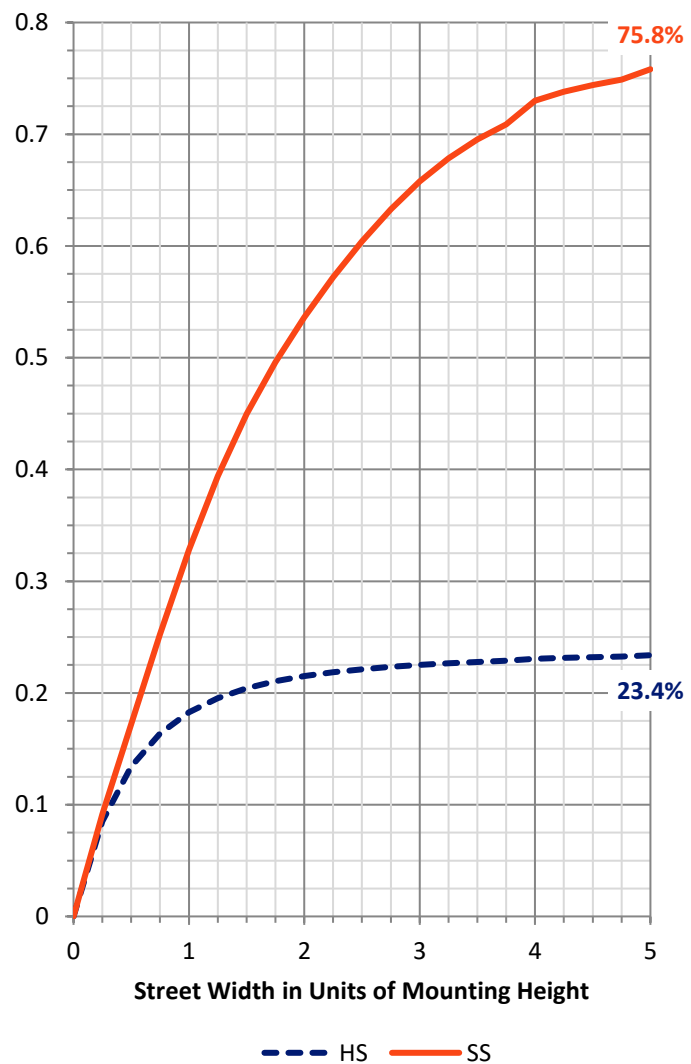
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7781.1	0.0	7781.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	24915.9	0.0	24915.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	32697.0	0.0	32697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.5	1.3
10°-20°	1189.9	3.6
20°-30°	1998.2	6.1
30°-40°	3105.4	9.5
40°-50°	4609.3	14.1
50°-60°	6363.4	19.5
60°-70°	7720.3	23.6
70°-80°	6380.2	19.5
80°-90°	917.7	2.8
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°	32697.0	100.0
0°-180°	32697.0	100.0

Coefficient of Utilization



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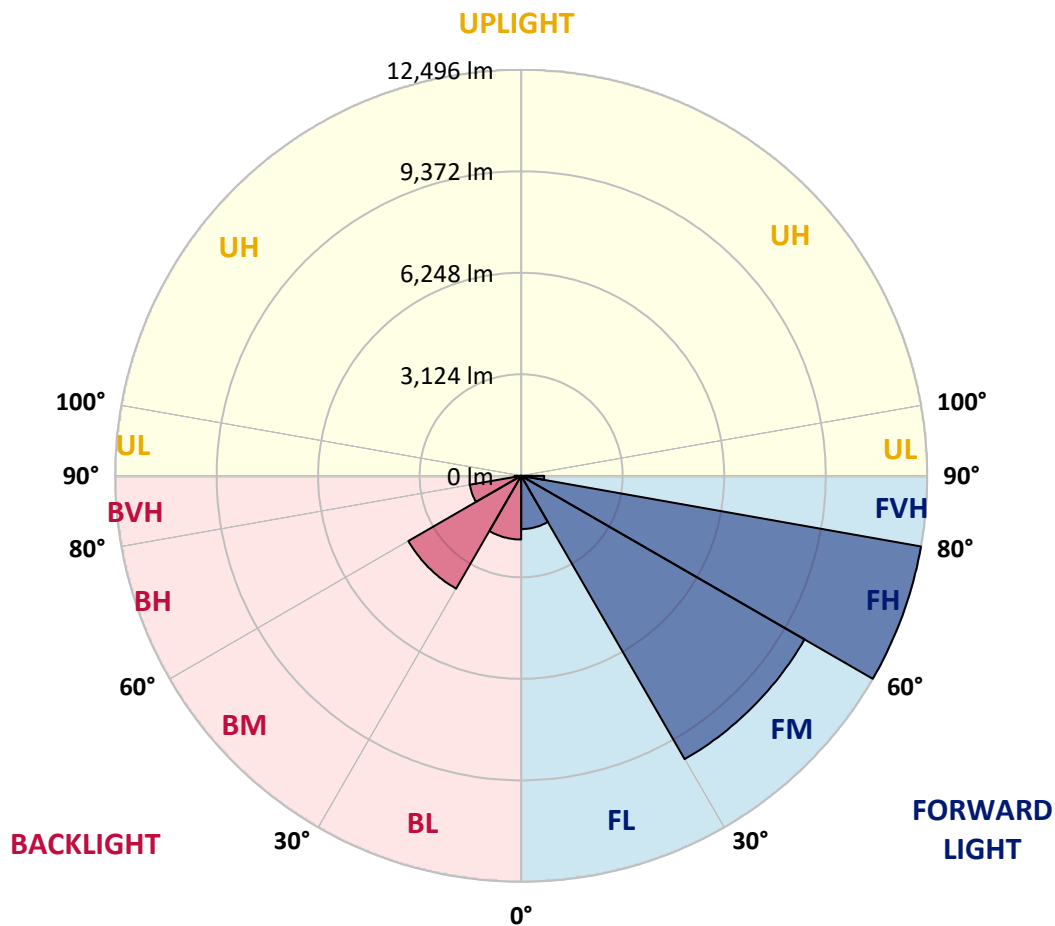
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1639.7	5.0			
FM	(30°-60°)	10068.9	30.8			
FH	(60°-80°)	12496.3	38.2			G5
FVH	(80°-90°)	711.0	2.2			G4/750
BL	(0°-30°)	1960.9	6.0	B3/2500		
BM	(30°-60°)	4009.3	12.3	B3/5000		
BH	(60°-80°)	1604.2	4.9	B3/2500		G3/2500
BVH	(80°-90°)	206.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4357.1	4357.1	4357.1	4357.1	4357.1	4357.1	4357.1	4357.1	4357.1	4357.1	4357.1
2.5°	4017.7	4042.5	4053.1	4047.8	4074.3	4070.7	4107.9	4153.8	4217.5	4279.3	4369.5
5°	3708.4	3734.9	3757.9	3779.1	3830.4	3846.3	3904.6	3993.0	4109.6	4228.1	4376.5
7.5°	3420.3	3443.3	3478.6	3517.5	3604.1	3620.0	3717.2	3855.1	4017.7	4190.9	4396.0
10°	3185.2	3208.2	3245.3	3289.5	3397.3	3416.7	3540.5	3724.3	3936.4	4155.6	4417.2
12.5°	3084.4	3091.5	3112.7	3156.9	3250.6	3263.0	3399.1	3609.4	3856.9	4129.1	4449.0
15°	3079.1	3093.3	3095.0	3118.0	3195.8	3201.1	3326.6	3535.2	3807.4	4123.8	4496.7
17.5°	3132.2	3142.8	3126.9	3141.0	3206.4	3215.2	3314.2	3499.8	3791.5	4146.8	4578.0
20°	3273.6	3282.4	3234.7	3215.2	3263.0	3270.0	3367.2	3522.8	3807.4	4194.5	4689.4
22.5°	3574.1	3579.4	3462.7	3383.2	3386.7	3390.2	3475.1	3616.5	3869.2	4281.1	4830.8
25°	4042.5	4038.9	3853.3	3699.6	3611.2	3591.7	3648.3	3768.5	3973.5	4396.0	5012.9
27.5°	4590.4	4563.9	4378.3	4148.5	3955.9	3927.6	3915.2	3966.5	4122.0	4548.0	5235.6
30°	5209.1	5184.3	4984.6	4684.1	4417.2	4371.2	4254.6	4228.1	4343.0	4754.8	5544.9
32.5°	5887.8	5871.9	5633.3	5269.2	4912.1	4859.1	4662.9	4592.2	4682.3	5067.7	5976.2
35°	6457.0	6442.8	6244.9	5870.1	5433.6	5368.2	5168.4	5088.9	5134.8	5468.9	6540.1
37.5°	6971.4	6964.3	6794.6	6499.4	6048.7	5969.1	5744.7	5718.1	5709.3	5997.4	7224.1
40°	7448.6	7430.9	7254.2	7098.6	6764.5	6692.1	6494.1	6471.1	6404.0	6647.9	7998.3
42.5°	7977.1	7931.2	7674.9	7602.4	7512.2	7452.1	7333.7	7337.2	7188.8	7381.4	8818.5
45°	8408.4	8381.9	8118.5	8076.1	8173.3	8148.6	8251.1	8277.6	7989.5	8150.3	9670.5
47.5°	8871.5	8846.8	8624.0	8594.0	8857.4	8864.4	9226.8	9235.6	8770.8	8949.3	10524.2
50°	9442.4	9407.1	9186.1	9223.3	9518.4	9545.0	10207.8	10147.7	9490.2	9760.6	11370.9
52.5°	9818.9	9840.1	9792.4	9852.5	10255.5	10280.3	11172.9	11019.1	10202.5	10561.3	12201.6
55°	10096.4	10138.9	10287.3	10425.2	11033.3	11058.0	12083.2	11848.1	10792.9	11303.7	12982.9
57.5°	10453.5	10393.4	10670.9	10939.6	11772.1	11837.5	12968.8	12647.1	11316.1	11943.6	13518.5
60°	10966.1	10923.7	11139.3	11537.0	12599.3	12703.6	13905.6	13366.5	11699.6	12450.9	13622.8
62.5°	12005.4	11899.4	11933.0	12284.7	13642.2	13780.1	14962.6	13994.0	11890.5	12648.8	13064.2
65°	13559.1	13377.1	13207.4	13451.3	15111.1	15247.2	16155.7	14487.1	11819.8	12265.3	11581.2
67.5°	15515.9	15335.6	15127.0	15356.8	17274.6	17382.4	17628.1	14764.6	11263.1	10787.6	8959.9
70°	17129.7	17062.5	17311.7	18257.4	20730.2	20733.8	19515.9	14534.8	9737.6	7648.3	5184.3
72.5°	16915.8	16875.1	18188.4	21112.0	25085.6	24991.9	21302.9	12795.5	6559.5	3450.3	1942.6
75°	13877.3	14140.7	16175.2	21060.8	26649.9	26637.5	20208.8	8134.4	2713.2	1430.0	1004.0
77.5°	7441.5	7858.7	10501.2	15549.4	20804.5	21117.3	14207.8	2845.8	1164.8	915.6	694.7
80°	2426.9	2791.0	4185.6	7917.0	13518.5	13460.2	6089.3	1117.1	797.2	648.7	480.8
82.5°	1030.5	1072.9	1870.1	3738.4	6937.8	6829.9	1939.0	641.6	560.3	443.7	297.0
85°	403.0	450.7	825.5	1728.7	3004.9	2939.5	700.0	318.2	358.8	289.9	176.8
87.5°	132.6	160.9	295.2	592.1	935.1	901.5	171.5	109.6	155.5	132.6	63.6
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°	4357.1	4357.1	4357.1	4357.1	4357.1	4357.1	4357.1	4357.1	4357.1	4357.1	4357.1
2.5°	4394.2	4422.5	4456.1	4505.6	4548.0	4583.3	4620.5	4643.4	4652.3	4678.8	4677.0
5°	4426.0	4487.9	4571.0	4652.3	4731.8	4779.5	4822.0	4843.2	4862.6	4876.8	4880.3
7.5°	4479.1	4558.6	4689.4	4795.5	4862.6	4901.5	4929.8	4922.7	4929.8	4933.3	4938.6
10°	4525.0	4636.4	4791.9	4892.7	4943.9	4945.7	4938.6	4913.9	4901.5	4903.3	4906.8
12.5°	4579.8	4703.5	4871.5	4956.3	4970.4	4931.6	4901.5	4859.1	4843.2	4836.1	4832.6
15°	4654.1	4795.5	4958.1	4989.9	4954.5	4905.0	4853.8	4784.9	4749.5	4721.2	4730.1
17.5°	4744.2	4899.7	5025.2	5002.3	4926.3	4844.9	4761.9	4657.6	4585.1	4555.1	4556.8
20°	4869.7	5009.3	5076.5	4975.8	4860.9	4737.1	4595.7	4468.5	4401.3	4371.2	4367.7
22.5°	5021.7	5156.0	5126.0	4929.8	4767.2	4569.2	4392.4	4298.8	4265.2	4244.0	4247.5
25°	5203.8	5318.7	5161.3	4862.6	4613.4	4346.5	4210.4	4180.3	4164.4	4148.5	4148.5
27.5°	5440.6	5502.5	5187.9	4763.6	4373.0	4109.6	4060.1	4065.4	4060.1	4033.6	4038.9
30°	5753.5	5741.1	5212.6	4602.8	4097.3	3895.8	3899.3	3922.3	3925.8	3908.1	3917.0
32.5°	6165.3	6039.8	5225.0	4394.2	3833.9	3708.4	3711.9	3736.7	3754.4	3724.3	3738.4
35°	6663.8	6388.1	5205.5	4132.6	3630.6	3529.9	3503.4	3510.4	3515.7	3487.4	3506.9
37.5°	7245.3	6778.7	5118.9	3842.7	3462.7	3354.9	3298.3	3250.6	3222.3	3195.8	3213.5
40°	7883.4	7204.7	4959.8	3559.9	3275.3	3169.3	3084.4	2994.3	2898.8	2863.5	2879.4
42.5°	8551.6	7643.0	4767.2	3289.5	3059.7	2973.1	2882.9	2752.1	2609.0	2536.5	2545.3
45°	9244.5	8092.0	4578.0	3022.6	2838.7	2801.6	2697.3	2540.0	2384.5	2292.6	2285.5
47.5°	9923.2	8516.2	4300.5	2753.9	2631.9	2672.6	2591.3	2446.3	2273.1	2128.2	2112.3
50°	10571.9	8913.9	3846.3	2481.7	2464.0	2633.7	2555.9	2347.4	2149.4	1963.8	1947.9
52.5°	11215.3	9235.6	3264.7	2234.2	2373.9	2623.1	2510.0	2280.2	2038.0	1843.6	1822.4
55°	11761.5	9401.8	2704.4	2022.1	2243.1	2532.9	2455.2	2200.6	1880.7	1673.9	1656.2
57.5°	12072.6	9267.4	2237.8	1813.5	2062.8	2384.5	2361.5	2031.0	1693.3	1534.3	1513.1
60°	11938.3	8723.0	1856.0	1631.5	1891.3	2223.6	2198.9	1863.0	1550.2	1399.9	1378.7
62.5°	11197.6	7685.5	1553.7	1472.4	1735.8	2059.2	2036.3	1734.0	1440.6	1295.6	1272.7
65°	9705.8	6251.9	1318.6	1339.8	1578.5	1861.3	1894.9	1626.2	1354.0	1212.6	1189.6
67.5°	7402.6	4528.6	1134.8	1224.9	1424.7	1666.8	1764.0	1548.4	1281.5	1147.2	1126.0
70°	4219.2	2571.8	979.2	1113.6	1288.6	1486.5	1663.3	1486.5	1203.7	1092.4	1078.2
72.5°	1599.7	1180.7	846.7	1002.2	1157.8	1334.5	1551.9	1389.3	1113.6	1030.5	1016.4
75°	853.7	719.4	712.3	871.4	1007.5	1186.0	1412.3	1293.9	1046.4	1088.8	1124.2
77.5°	581.5	509.1	595.7	745.9	843.1	1021.7	1263.8	1148.9	906.8	903.2	832.5
80°	403.0	360.6	484.3	601.0	652.2	859.0	1103.0	986.3	738.9	689.4	659.3
82.5°	242.2	235.1	362.4	449.0	461.3	662.8	913.8	827.2	604.5	526.7	530.3
85°	132.6	139.6	231.6	263.4	268.7	463.1	715.9	639.9	464.9	390.6	394.2
87.5°	37.1	47.7	84.8	104.3	129.0	240.4	426.0	380.0	233.3	162.6	162.6
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)