

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: P950907

Luminaire Tested: **GALN-SB5B-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5B-722-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22965 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 182.7
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



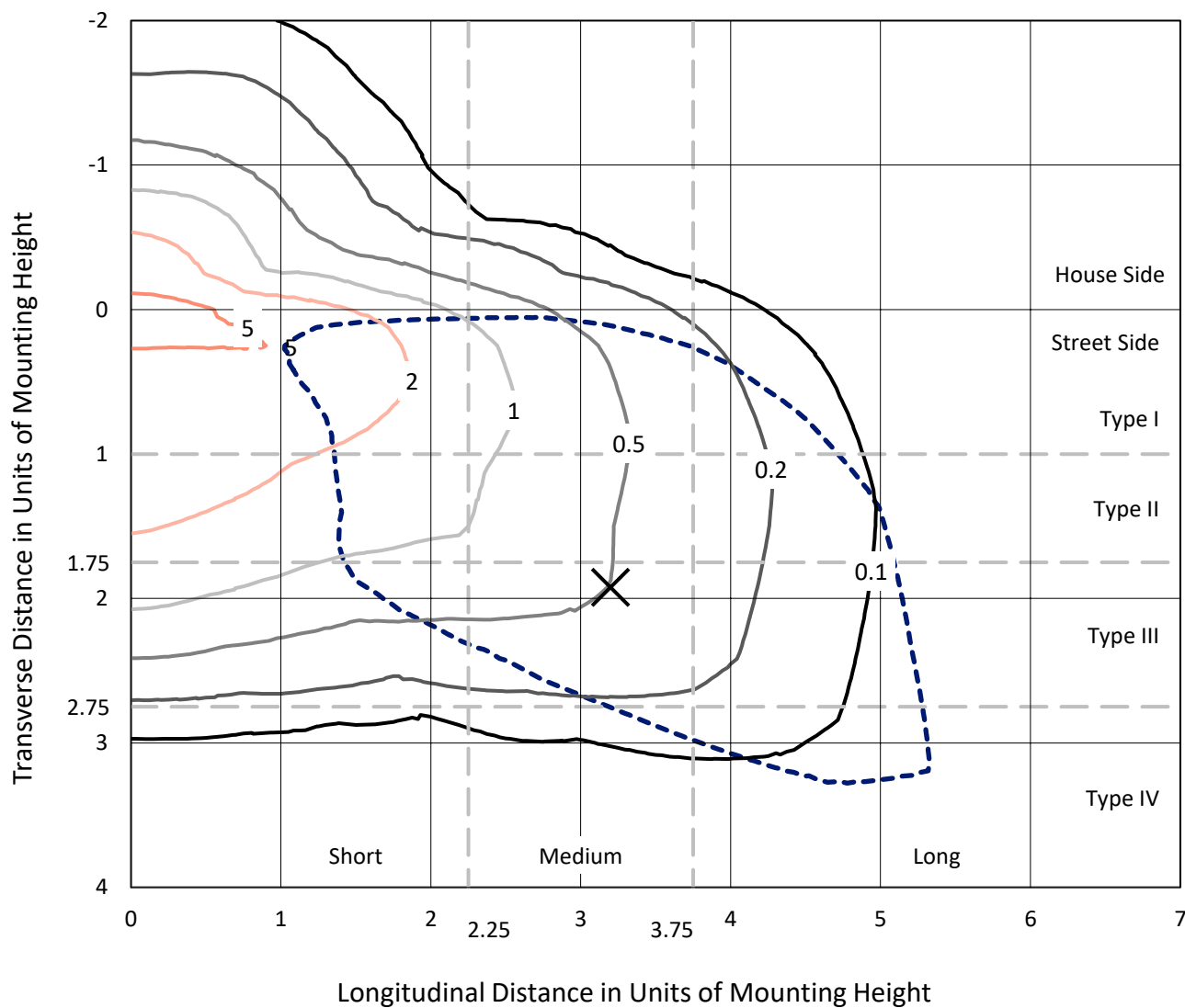
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

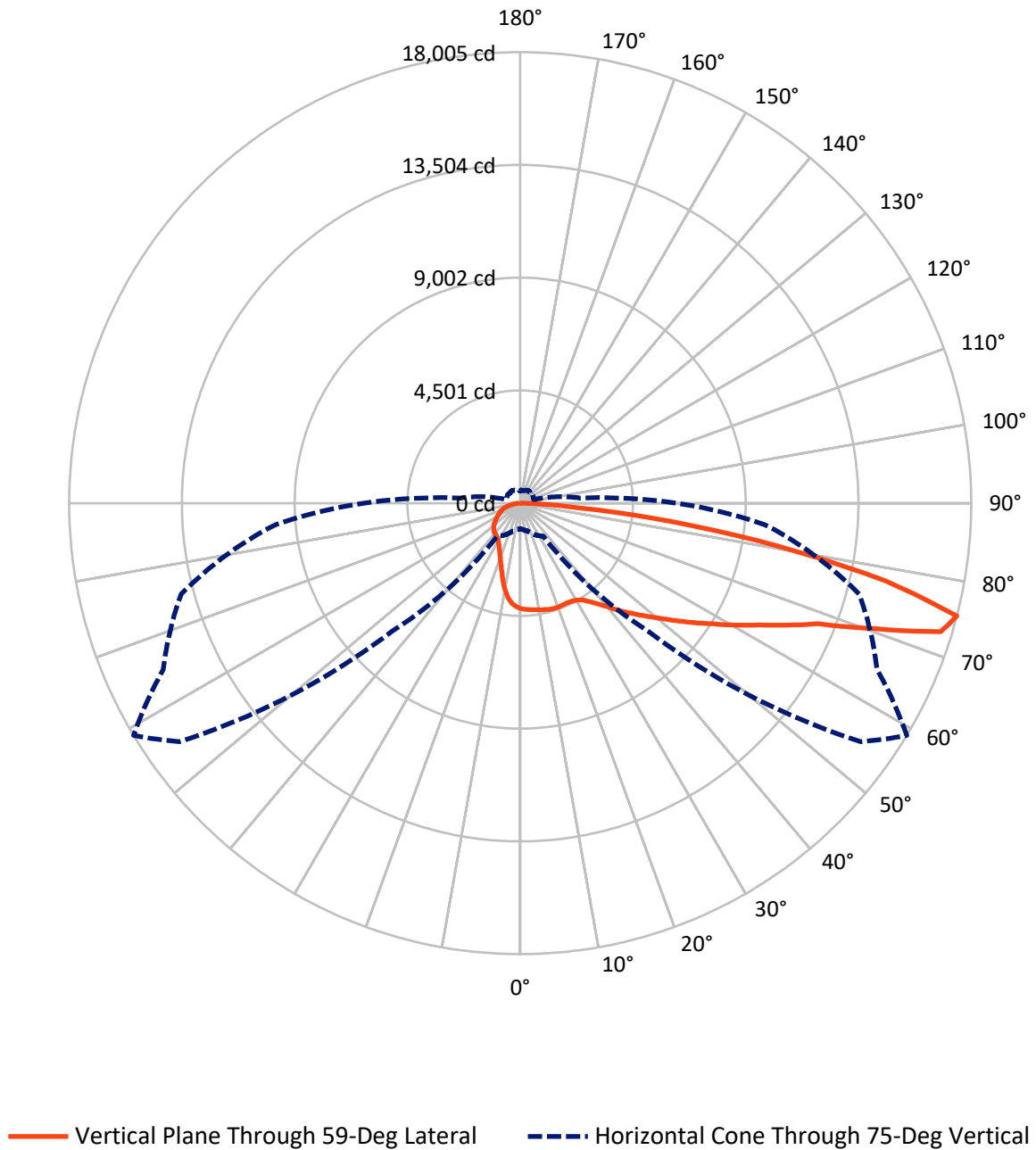
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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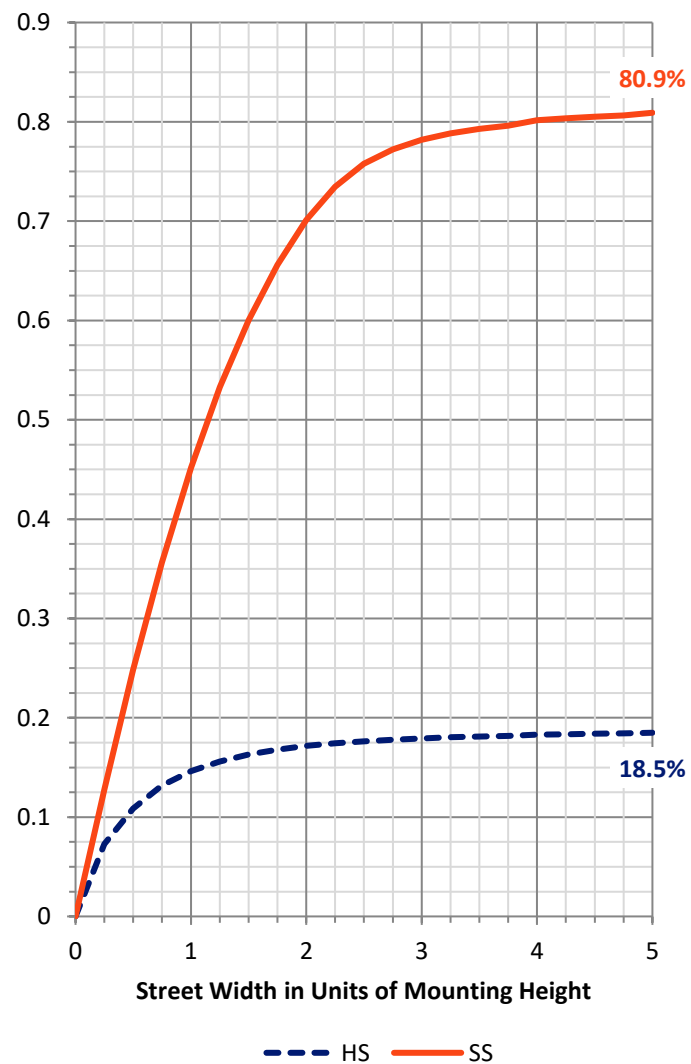
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4307.2	0.0	4307.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18657.8	0.0	18657.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	22965.0	0.0	22965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.0	1.6
10°-20°	966.1	4.2
20°-30°	1467.4	6.4
30°-40°	2181.3	9.5
40°-50°	3243.9	14.1
50°-60°	4403.2	19.2
60°-70°	5375.6	23.4
70°-80°	4218.7	18.4
80°-90°	730.8	3.2
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°	22965.0	100.0
0°-180°	22965.0	100.0

Coefficient of Utilization



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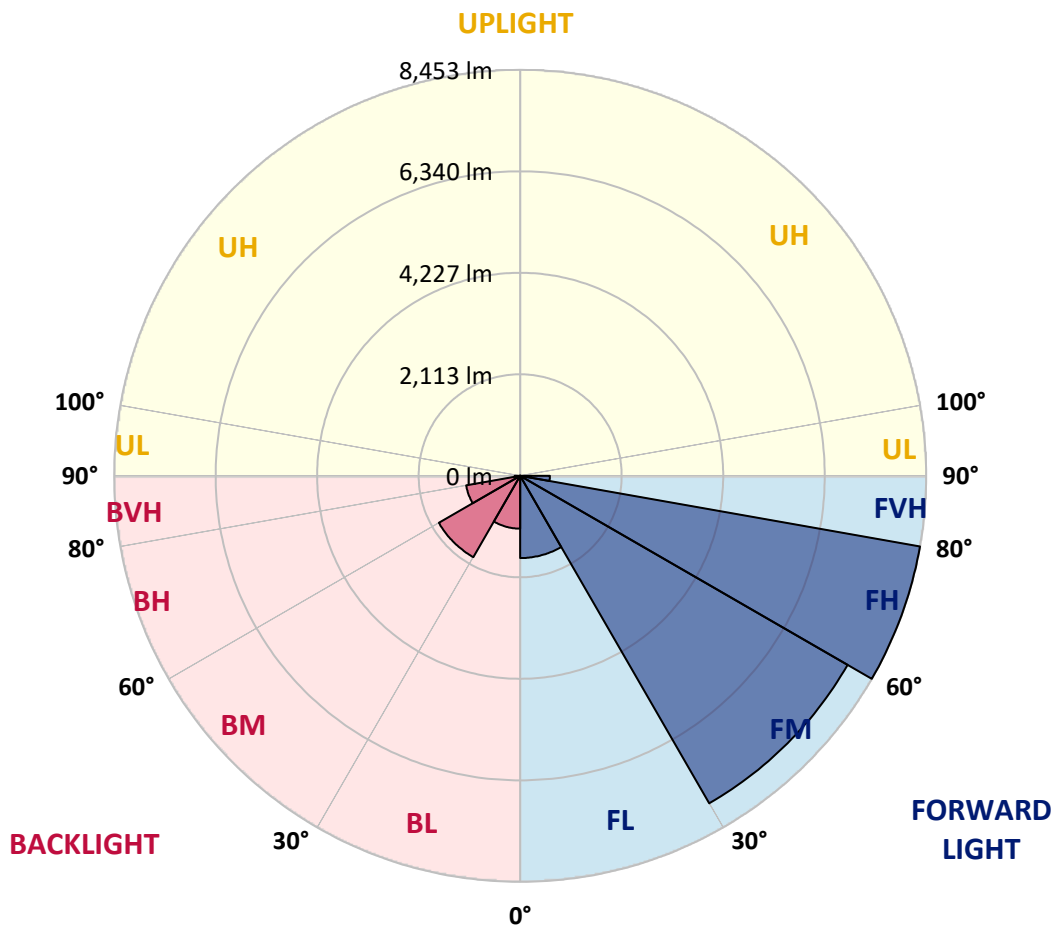
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1712.3	7.5			
FM	(30°-60°)	7873.4	34.3			
FH	(60°-80°)	8453.2	36.8			G4/12000
FVH	(80°-90°)	618.9	2.7			G4/750
BL	(0°-30°)	1099.2	4.8	B3/2500		
BM	(30°-60°)	1955.1	8.5	B2/2500		
BH	(60°-80°)	1141.2	5.0	B3/2500		G3/2500
BVH	(80°-90°)	111.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2
2.5°	4251.0	4236.2	4251.0	4244.8	4242.4	4237.4	4238.6	4247.3	4242.4	4248.5	4227.5
5°	4222.6	4213.9	4228.8	4225.1	4241.1	4243.6	4259.6	4269.5	4275.7	4276.9	4260.9
7.5°	4175.6	4167.0	4188.0	4205.3	4239.9	4249.8	4283.1	4299.2	4307.8	4322.7	4299.2
10°	4003.9	4000.2	4052.1	4117.6	4199.1	4249.8	4300.4	4327.6	4341.2	4380.7	4353.5
12.5°	3700.0	3705.0	3772.9	3898.9	4062.0	4225.1	4320.2	4359.7	4380.7	4430.1	4417.8
15°	3409.7	3408.5	3482.6	3617.2	3845.8	4116.3	4330.1	4398.0	4433.8	4506.7	4496.8
17.5°	3241.7	3236.7	3288.6	3391.2	3603.7	3949.6	4305.4	4419.0	4495.6	4587.0	4578.4
20°	3210.8	3200.9	3228.1	3278.7	3429.5	3766.7	4241.1	4419.0	4545.0	4663.6	4658.7
22.5°	3323.2	3307.2	3296.0	3289.9	3356.6	3616.0	4168.2	4404.2	4617.9	4773.6	4764.9
25°	3549.3	3524.6	3467.8	3412.2	3392.4	3548.1	4104.0	4400.5	4726.6	4921.8	4889.7
27.5°	3915.0	3884.1	3769.2	3635.8	3515.9	3582.7	4075.6	4422.7	4846.5	5078.7	5014.5
30°	4368.4	4335.0	4190.5	3985.4	3770.4	3711.1	4111.4	4488.2	4999.7	5287.5	5161.5
32.5°	4774.8	4737.7	4614.2	4405.4	4115.1	3933.5	4225.1	4613.0	5240.6	5577.8	5382.6
35°	5135.5	5092.3	4981.1	4788.4	4537.6	4246.1	4430.1	4834.1	5582.8	6049.7	5682.8
37.5°	5488.9	5438.2	5317.1	5113.3	4937.9	4662.4	4713.0	5118.2	6037.4	6623.0	6080.6
40°	5884.2	5811.3	5664.3	5462.9	5292.4	5150.4	5084.9	5466.6	6499.4	7262.9	6577.3
42.5°	6267.2	6198.0	6022.6	5850.8	5637.1	5596.3	5516.0	5874.3	7004.7	7965.8	7081.3
45°	6679.8	6597.0	6384.5	6167.1	6032.4	5892.8	5933.6	6282.0	7500.1	8682.4	7610.0
47.5°	7066.5	6973.8	6723.0	6480.9	6406.8	6142.4	6316.6	6730.4	8015.3	9408.8	8133.9
50°	7275.3	7183.8	6975.1	6756.4	6698.3	6450.0	6731.7	7223.4	8555.1	10132.7	8636.7
52.5°	7449.4	7350.6	7077.6	6956.5	6939.2	6784.8	7243.1	7786.7	9095.0	10772.7	9122.2
55°	7634.8	7524.8	7176.4	7067.7	7146.8	7160.4	7849.7	8425.4	9665.7	11396.5	9580.5
57.5°	7848.5	7708.9	7271.5	7161.6	7349.4	7600.2	8546.5	9087.6	10226.6	11974.7	9988.2
60°	8049.8	7909.0	7454.4	7311.1	7568.0	8110.4	9345.8	9889.4	10861.6	12489.9	10373.6
62.5°	8089.4	7973.3	7600.2	7598.9	7864.5	8705.8	10292.1	10698.5	11416.3	12998.8	10719.5
65°	7405.0	7332.1	7110.9	7587.8	8289.5	9563.2	11345.9	11733.8	12121.7	13443.6	11023.4
67.5°	5635.9	5645.8	5629.7	6550.1	7946.1	10794.9	12871.6	12842.0	12992.7	13942.7	11373.1
70°	2577.0	2635.1	3013.1	4521.6	6366.0	10937.0	15394.3	15010.1	14086.0	14588.8	11675.7
72.5°	1392.3	1436.8	1591.2	2190.4	3827.3	9723.8	17279.5	17552.5	15540.1	15023.7	11343.4
75°	1021.7	1046.4	1153.9	1392.3	1607.3	7227.1	16603.7	18004.7	15721.7	14009.4	9795.5
77.5°	764.7	775.8	863.5	1103.2	822.8	3810.0	13266.9	14911.2	13458.4	11510.2	7235.7
80°	554.7	567.0	632.5	827.7	576.9	1393.5	9109.8	10466.3	9217.3	7337.0	3606.1
82.5°	383.0	387.9	416.3	563.3	402.7	541.1	5168.9	6137.5	5145.4	2574.6	973.5
85°	231.0	237.2	249.6	328.6	228.5	257.0	2231.1	2307.7	1538.1	615.2	302.7
87.5°	95.1	101.3	111.2	138.4	90.2	71.7	368.1	462.0	287.8	180.4	93.9
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°	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2
2.5°	4221.4	4212.7	4189.2	4157.1	4127.5	4090.4	4074.3	4060.7	4048.4	4024.9	4013.8
5°	4247.3	4223.8	4160.8	4079.3	3986.6	3885.3	3786.5	3718.5	3660.5	3617.2	3581.4
7.5°	4286.8	4242.4	4127.5	3960.7	3748.2	3530.8	3334.3	3194.7	3089.7	3051.4	2984.7
10°	4327.6	4274.5	4074.3	3780.3	3413.4	3078.6	2817.9	2674.6	2590.6	2563.4	2521.4
12.5°	4375.8	4297.9	3991.6	3529.5	3039.1	2672.2	2444.9	2360.8	2317.6	2302.8	2306.5
15°	4446.2	4317.7	3866.8	3215.7	2682.0	2375.7	2228.7	2170.6	2148.4	2147.1	2152.1
17.5°	4499.3	4321.4	3672.8	2879.7	2407.8	2196.5	2075.5	2053.2	2068.1	2090.3	2098.9
20°	4558.6	4288.1	3418.3	2573.3	2215.1	2039.6	1989.0	2003.8	2039.6	2071.8	2082.9
22.5°	4600.6	4227.5	3110.7	2334.9	2048.3	1949.5	1947.0	1977.9	1997.6	2013.7	2022.3
25°	4637.7	4125.0	2784.6	2134.8	1911.2	1895.1	1922.3	1912.4	1898.8	1912.4	1921.0
27.5°	4664.9	3963.2	2493.0	1959.3	1814.8	1858.0	1842.0	1819.7	1818.5	1825.9	1838.3
30°	4656.2	3747.0	2253.4	1792.6	1746.9	1788.9	1750.6	1746.9	1743.1	1746.9	1760.4
32.5°	4656.2	3501.1	2069.3	1677.7	1703.6	1687.6	1683.8	1675.2	1660.4	1659.1	1675.2
35°	4682.2	3255.3	1911.2	1615.9	1667.8	1629.5	1632.0	1611.0	1580.1	1565.2	1580.1
37.5°	4735.3	3057.6	1754.3	1586.2	1604.8	1603.5	1593.7	1557.8	1503.5	1456.5	1472.6
40°	4863.8	2999.5	1646.8	1572.7	1575.1	1590.0	1564.0	1494.8	1371.3	1294.7	1304.6
42.5°	5065.1	3097.1	1623.3	1539.3	1555.4	1570.2	1519.5	1358.9	1271.2	1225.5	1225.5
45°	5320.9	3267.6	1674.0	1491.1	1508.4	1534.4	1383.6	1307.1	1267.5	1268.8	1274.9
47.5°	5644.5	3446.8	1767.9	1449.1	1440.5	1455.3	1293.5	1246.5	1192.2	1205.7	1240.3
50°	6018.9	3628.4	1856.8	1392.3	1365.1	1316.9	1235.4	1190.9	1121.7	1089.6	1098.3
52.5°	6424.1	3803.8	1892.6	1323.1	1283.6	1228.0	1195.9	1141.5	1057.5	1004.4	1003.1
55°	6808.3	3963.2	1853.1	1240.3	1202.0	1158.8	1153.9	1120.5	1030.3	956.2	956.2
57.5°	7171.5	4096.6	1754.3	1156.3	1119.3	1093.3	1126.7	1110.6	997.0	901.8	896.9
60°	7479.1	4188.0	1611.0	1071.1	1045.1	1031.6	1082.2	1077.3	950.0	843.8	840.1
62.5°	7723.7	4223.8	1452.8	989.6	983.4	958.7	1020.4	1020.4	890.7	786.9	783.2
65°	7915.2	4189.2	1292.2	909.3	921.6	884.5	945.1	937.7	827.7	736.3	731.4
67.5°	8084.4	4075.6	1114.3	830.2	858.6	811.7	866.0	848.7	758.5	685.6	680.7
70°	8159.8	3811.2	911.7	751.1	785.7	740.0	786.9	754.8	680.7	631.3	621.4
72.5°	7554.5	3167.6	717.8	668.3	698.0	660.9	701.7	664.6	596.7	574.5	555.9
75°	6249.9	2376.9	552.2	578.2	600.4	572.0	599.2	572.0	510.2	526.3	480.6
77.5°	4538.8	1604.8	422.5	483.0	492.9	478.1	501.6	470.7	415.1	411.4	392.9
80°	2257.1	940.1	331.1	381.7	378.0	368.1	395.3	380.5	333.6	353.3	349.6
82.5°	653.5	402.7	240.9	268.1	260.7	263.1	282.9	290.3	434.9	431.2	441.0
85°	205.1	158.1	144.5	149.5	142.1	145.8	166.8	331.1	306.4	179.1	194.0
87.5°	53.1	54.4	35.8	38.3	39.5	46.9	53.1	201.4	96.4	63.0	66.7
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)