

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: P457070

Luminaire Tested: **GALN-SA8B-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33716 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

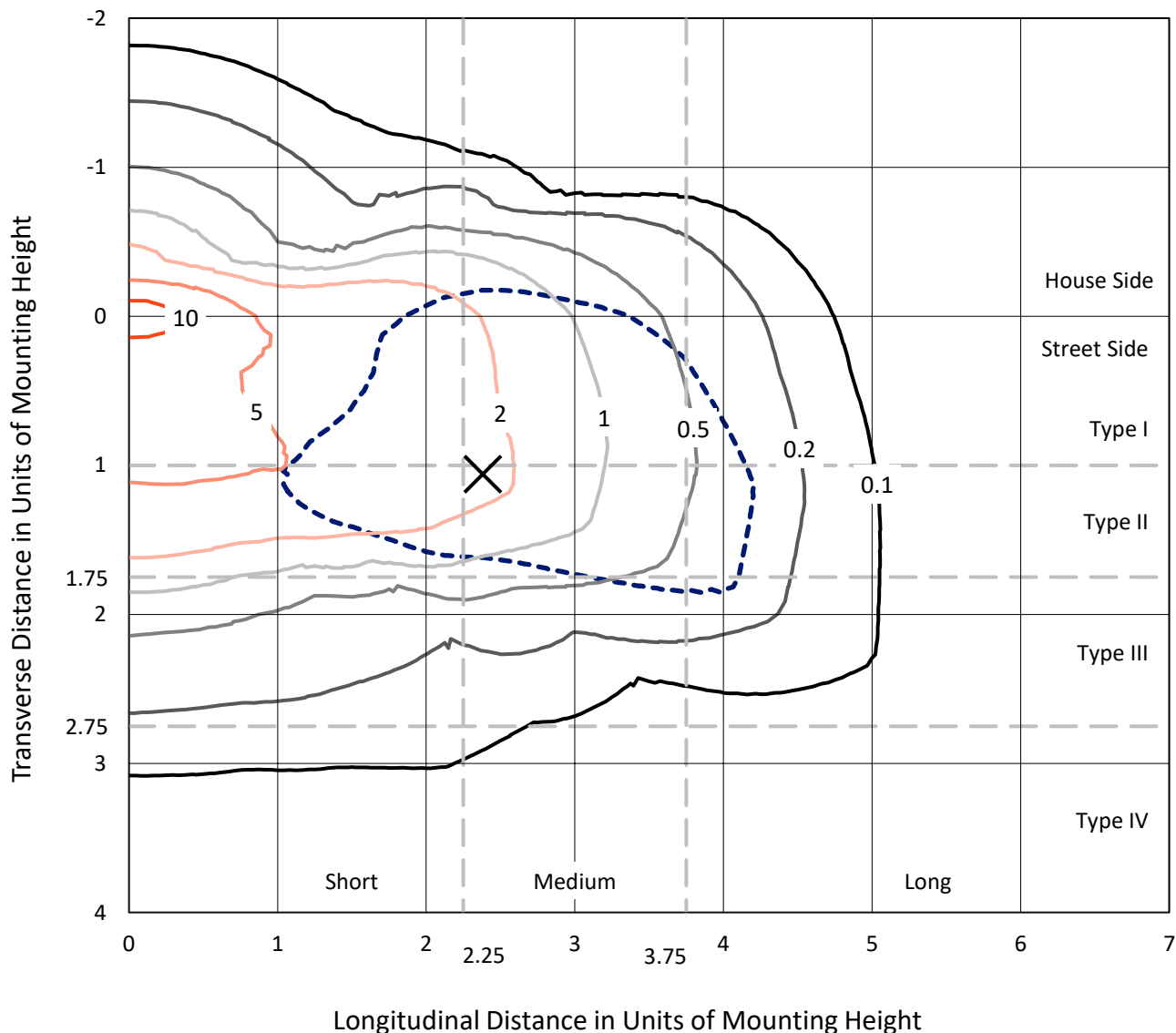
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

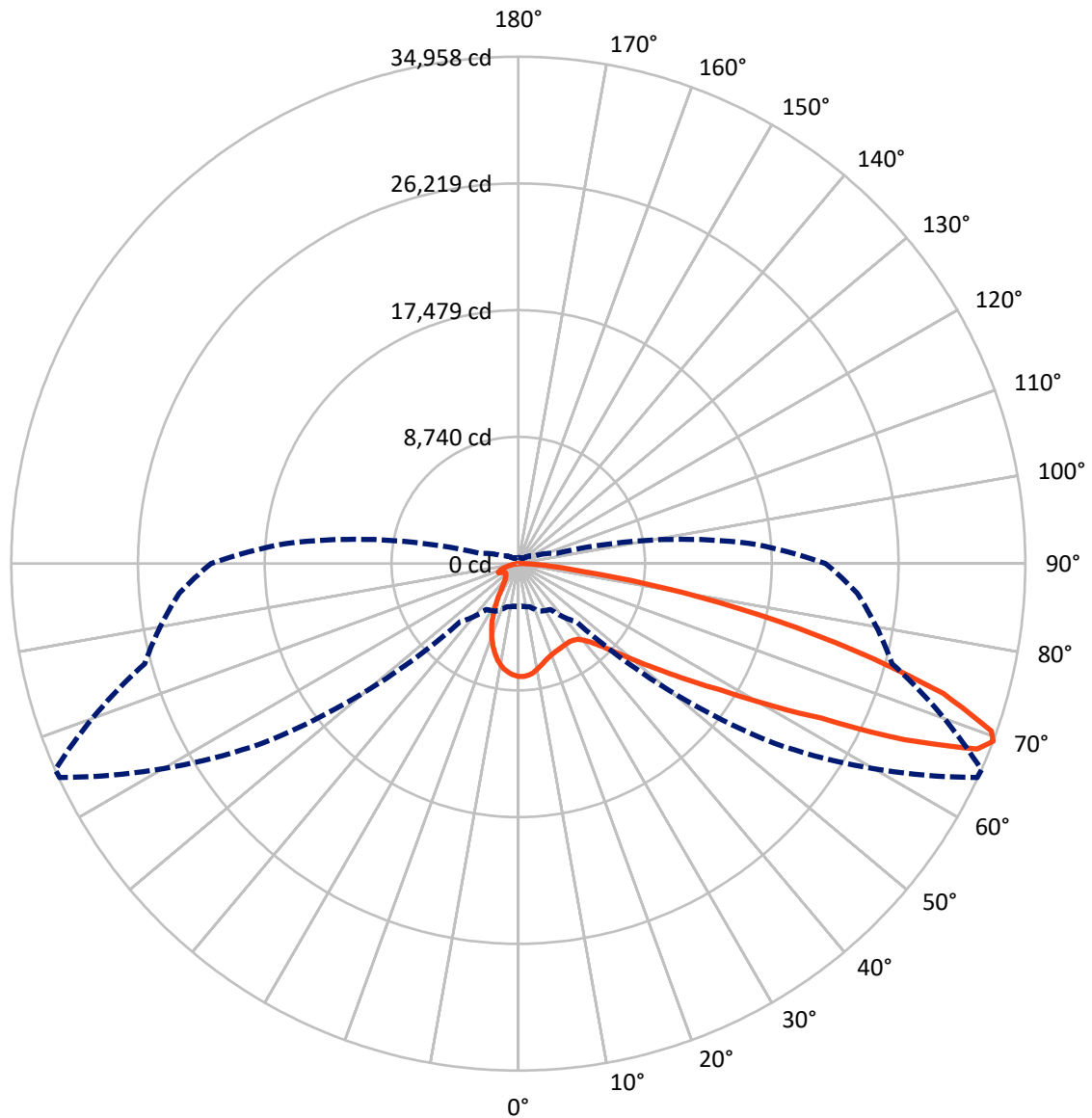
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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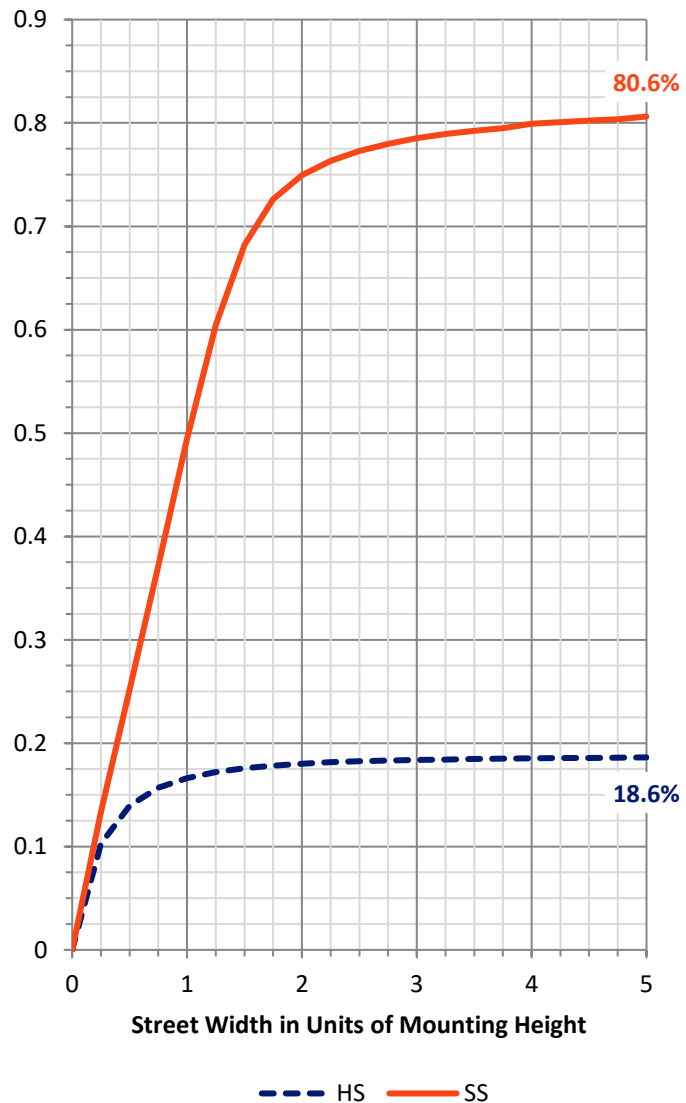
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6340.7	0.0	6340.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27375.3	0.0	27375.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	33716.0	0.0	33716.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.1	2.0
10°-20°	1603.7	4.8
20°-30°	2183.2	6.5
30°-40°	2933.8	8.7
40°-50°	4380.7	13.0
50°-60°	6968.2	20.7
60°-70°	8570.5	25.4
70°-80°	5576.3	16.5
80°-90°	823.5	2.4
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°	33716.0	100.0
0°-180°	33716.0	100.0



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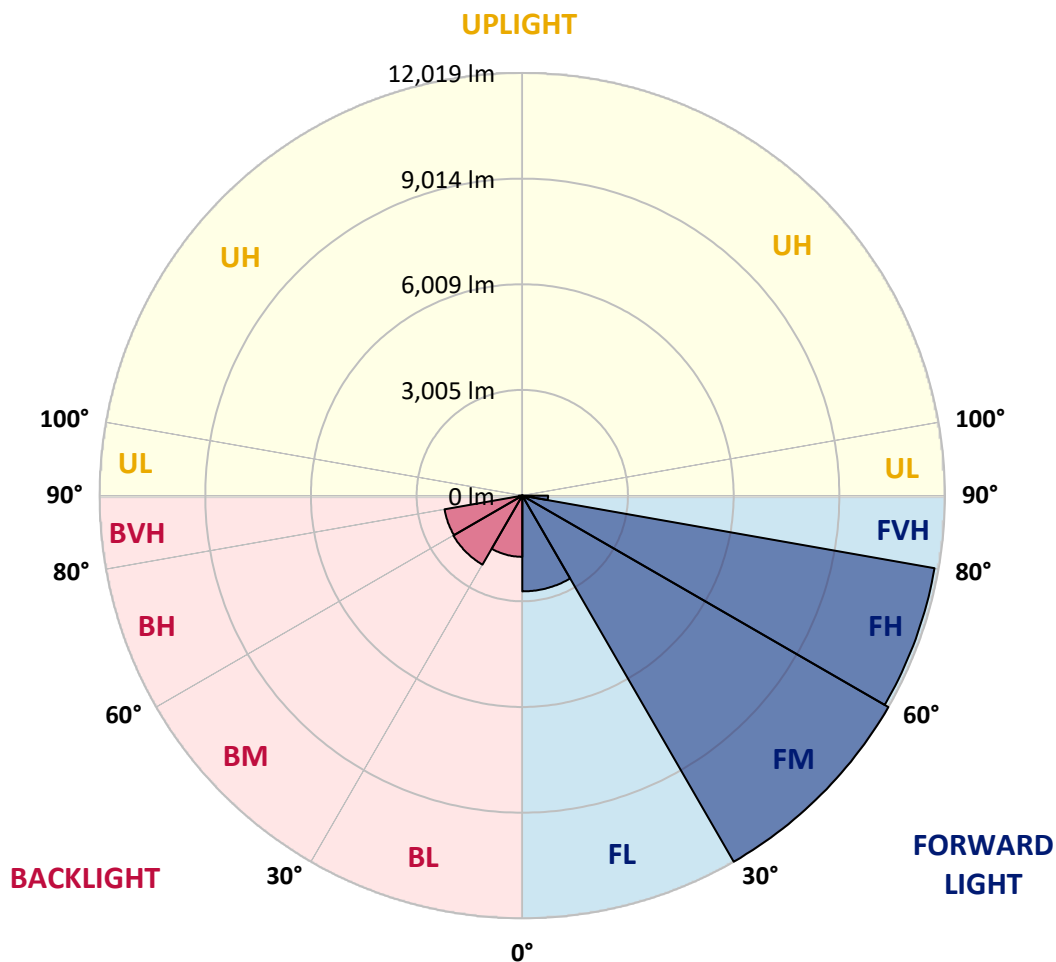
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2722.5	8.1			
FM	(30°-60°)	12018.7	35.6			
FH	(60°-80°)	11901.9	35.3			G4/12000
FVH	(80°-90°)	732.1	2.2			G4/750
BL	(0°-30°)	1740.6	5.2	B3/2500		
BM	(30°-60°)	2263.9	6.7	B2/2500		
BH	(60°-80°)	2244.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	91.4	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7786.0	7786.0	7786.0	7786.0	7786.0	7786.0	7786.0	7786.0	7786.0	7786.0	7786.0
2.5°	7513.4	7543.2	7576.8	7614.2	7685.1	7724.3	7752.4	7784.1	7787.8	7804.6	7791.6
5°	6958.8	6994.3	7044.7	7115.7	7222.1	7388.3	7560.0	7700.1	7716.9	7795.3	7817.7
7.5°	6495.8	6516.3	6557.4	6671.3	6822.5	7007.4	7257.6	7541.4	7582.4	7769.2	7834.5
10°	6118.6	6139.1	6187.7	6305.3	6454.7	6686.2	6960.7	7334.1	7367.7	7688.9	7838.2
12.5°	5836.7	5855.3	5907.6	6023.4	6195.2	6411.7	6714.2	7110.1	7158.6	7582.4	7802.8
15°	5621.9	5657.4	5700.4	5795.6	5976.7	6185.8	6479.0	6904.7	6943.9	7470.4	7778.5
17.5°	5530.5	5547.3	5577.1	5664.9	5797.5	6002.8	6297.9	6744.1	6790.8	7392.0	7772.9
20°	5534.2	5551.0	5556.6	5605.1	5700.4	5877.7	6169.0	6617.1	6673.1	7322.9	7782.2
22.5°	5661.2	5663.0	5642.5	5625.7	5663.0	5810.5	6077.5	6521.9	6587.3	7293.0	7789.7
25°	5857.2	5890.8	5860.9	5782.5	5713.4	5784.4	6042.1	6469.6	6531.2	7250.1	7780.4
27.5°	6174.6	6180.2	6156.0	6049.5	5870.3	5818.0	6027.1	6430.4	6482.7	7218.4	7733.7
30°	6600.3	6583.5	6561.1	6443.5	6161.6	5946.8	6058.9	6394.9	6449.1	7171.7	7677.7
32.5°	7031.6	7083.9	7063.4	6925.2	6559.3	6197.0	6161.6	6391.2	6436.0	7136.2	7616.1
35°	7489.1	7513.4	7610.5	7539.5	7164.2	6602.2	6353.9	6449.1	6484.6	7138.1	7573.1
37.5°	7847.6	7912.9	8140.7	8202.3	7849.4	7138.1	6665.7	6613.4	6628.3	7229.6	7589.9
40°	8280.8	8392.8	8685.9	8938.0	8706.5	7834.5	7195.9	6917.7	6936.4	7449.9	7700.1
42.5°	8829.7	8908.1	9302.1	9643.8	9606.4	8755.0	7838.2	7416.3	7425.6	7888.7	8008.2
45°	9472.0	9584.0	10026.5	10540.0	10627.7	9796.9	8766.2	8170.6	8165.0	8570.2	8583.2
47.5°	10293.5	10362.6	10801.4	11361.5	11716.3	11105.7	9892.1	9253.5	9193.8	9563.5	9457.0
50°	11049.7	11158.0	11490.4	12102.8	12985.9	12638.7	11372.7	10657.6	10517.6	10863.0	10683.8
52.5°	11367.1	11481.0	11761.1	12521.0	14074.5	14621.5	13252.9	12332.4	12099.0	12364.2	12298.8
55°	10816.3	10963.8	11225.2	12149.5	14552.5	16908.8	15788.5	14268.7	14098.8	13984.9	14003.5
57.5°	9335.7	9475.7	9828.6	10848.1	13981.1	18568.7	19408.9	16757.6	16393.5	15868.8	15958.4
60°	7106.3	7194.1	7377.1	8506.7	12287.6	19000.0	23520.3	19903.7	19672.2	17745.3	17808.8
62.5°	5046.9	5145.8	5272.8	5836.7	8995.9	17784.5	26739.3	24297.1	23469.9	19689.0	19627.3
65°	4098.4	4031.1	4184.3	4447.5	5278.4	13783.2	27463.7	30395.1	29256.2	22248.8	21393.7
67.5°	3370.2	3299.2	3450.5	3919.1	4014.3	8000.7	24853.5	34353.5	34125.7	25032.7	23188.0
69°	2983.7	2946.3	3078.9	3612.9	3853.8	5681.7	21651.3	34904.3	34958.4	26673.9	23464.3
70°	2688.7	2703.6	2832.4	3457.9	3781.0	4684.6	18505.2	34144.3	34603.6	27493.6	23165.6
72.5°	1979.2	2010.9	2190.2	2864.2	3711.9	3975.1	11012.4	29823.8	30636.0	27542.1	21192.0
75°	1383.5	1368.6	1527.3	2156.5	3506.5	3939.7	6467.8	23064.7	23985.2	23806.0	17806.9
77.5°	905.6	929.8	1056.8	1523.6	2950.1	3909.8	4216.0	16363.6	16961.1	15921.1	10532.5
80°	638.6	636.7	707.6	1040.0	2188.3	3756.7	3452.3	10314.1	10162.8	6256.8	3123.7
82.5°	366.0	392.1	474.3	731.9	1463.8	3306.7	3176.0	4933.0	4503.5	1783.1	1054.9
85°	203.5	212.9	281.9	442.5	855.1	2490.8	2772.7	2244.3	2117.3	745.0	453.7
87.5°	65.3	71.0	117.6	224.1	388.4	1176.3	1570.3	1036.3	956.0	268.9	183.0
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°	7786.0	7786.0	7786.0	7786.0	7786.0	7786.0	7786.0	7786.0	7786.0	7786.0	7786.0
2.5°	7797.2	7819.6	7759.8	7701.9	7649.7	7576.8	7511.5	7457.3	7420.0	7414.4	7395.7
5°	7823.3	7825.2	7711.3	7558.2	7408.8	7244.5	7074.6	6953.2	6839.3	6775.8	6744.1
7.5°	7842.0	7825.2	7619.8	7371.5	7083.9	6785.2	6486.4	6247.4	6062.6	5989.8	6017.8
10°	7834.5	7782.2	7481.6	7083.9	6665.7	6219.4	5790.0	5453.9	5145.8	4987.1	4990.9
12.5°	7793.4	7707.5	7276.2	6760.9	6146.6	5549.1	4891.9	4438.2	4081.6	3870.6	3805.2
15°	7758.0	7608.6	7035.4	6322.1	5558.5	4705.2	3904.2	3344.0	3045.3	2879.1	2877.3
17.5°	7720.6	7513.4	6772.1	5857.2	4882.6	3784.7	2944.5	2516.9	2376.9	2393.7	2365.7
20°	7681.4	7401.3	6497.6	5340.0	4059.2	2823.1	2205.1	2031.4	2070.7	2147.2	2158.4
22.5°	7636.6	7281.8	6202.6	4770.5	3192.8	2124.8	1788.7	1762.6	1863.4	1982.9	1999.7
25°	7567.5	7132.5	5831.1	4174.9	2462.8	1712.2	1566.5	1585.2	1684.2	1785.0	1796.2
27.5°	7470.4	6947.6	5455.8	3431.8	1850.3	1469.4	1432.1	1456.4	1504.9	1566.5	1581.5
30°	7339.7	6738.5	5024.5	2789.5	1482.5	1348.1	1333.1	1346.2	1374.2	1400.4	1407.8
32.5°	7209.0	6536.8	4589.4	2136.0	1321.9	1267.8	1252.8	1252.8	1252.8	1256.6	1258.5
35°	7087.7	6346.4	4122.6	1663.6	1237.9	1204.3	1183.8	1161.4	1157.6	1144.6	1144.6
37.5°	7020.4	6172.8	3626.0	1392.9	1176.3	1152.0	1124.0	1086.7	1066.1	1068.0	1064.3
40°	7033.5	6058.9	3174.1	1239.8	1125.9	1099.7	1056.8	1013.9	1000.8	1000.8	997.1
42.5°	7181.0	6021.5	2741.0	1159.5	1077.3	1047.5	993.3	954.1	946.6	944.8	948.5
45°	7520.8	6113.0	2352.6	1107.2	1036.3	991.4	937.3	901.8	894.4	894.4	892.5
47.5°	8183.7	6409.9	2074.4	1073.6	1006.4	948.5	892.5	857.0	843.9	840.2	840.2
50°	9214.3	7054.0	1867.1	1043.7	969.0	909.3	851.4	810.3	789.8	787.9	786.1
52.5°	10646.4	8058.6	1786.9	1021.3	928.0	868.2	804.7	765.5	739.4	733.8	730.1
55°	12321.2	9460.8	1897.0	1004.5	885.0	821.5	756.2	715.1	690.8	679.6	677.8
57.5°	14261.2	11144.9	2315.2	982.1	845.8	771.1	707.6	666.6	640.4	627.4	623.6
60°	16003.2	12875.8	3045.3	969.0	812.2	717.0	651.6	614.3	590.0	576.9	575.1
62.5°	17917.0	14526.3	3917.3	1004.5	797.3	664.7	599.4	565.7	545.2	532.1	532.1
65°	19961.6	16178.7	4494.2	1124.0	819.7	623.6	543.3	515.3	496.7	487.3	485.5
67.5°	21339.5	16750.1	3702.5	1247.2	875.7	578.8	489.2	466.8	455.6	446.2	446.2
69°	21190.1	16027.5	2731.6	1279.0	892.5	556.4	459.3	442.5	427.6	423.8	420.1
70°	20717.8	15204.1	2289.1	1258.5	879.4	535.9	440.6	420.1	407.0	403.3	401.4
72.5°	18452.9	13185.7	1704.7	1094.1	748.7	464.9	390.2	371.6	360.4	354.8	354.8
75°	15331.1	10777.1	1331.3	870.1	586.3	392.1	334.2	319.3	309.9	306.2	304.3
77.5°	8592.6	6017.8	956.0	681.5	444.4	317.4	280.1	267.0	257.7	253.9	253.9
80°	2393.7	1719.6	562.0	450.0	302.5	240.9	222.2	212.9	199.8	190.4	196.0
82.5°	901.8	745.0	321.1	270.7	192.3	160.6	155.0	147.5	141.9	128.8	128.8
85°	438.8	362.2	205.4	143.8	106.4	84.0	80.3	76.6	72.8	63.5	65.3
87.5°	151.2	160.6	89.6	52.3	31.7	20.5	16.8	9.3	9.3	9.3	9.3
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)