

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: P455417

Luminaire Tested: **GALN-SA6C-760-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455417
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-SA6C-760-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 1050mA 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: 41614 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

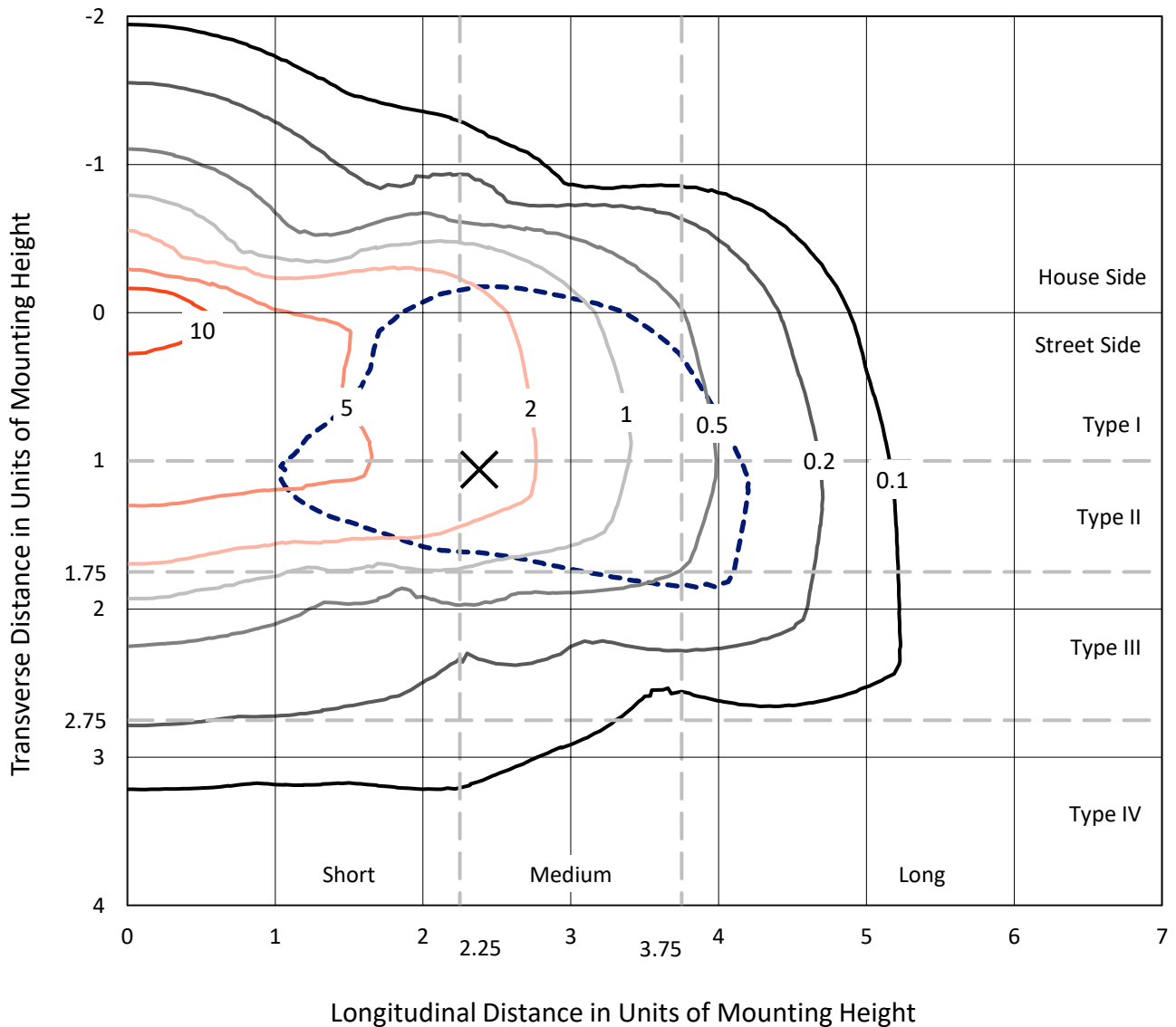
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

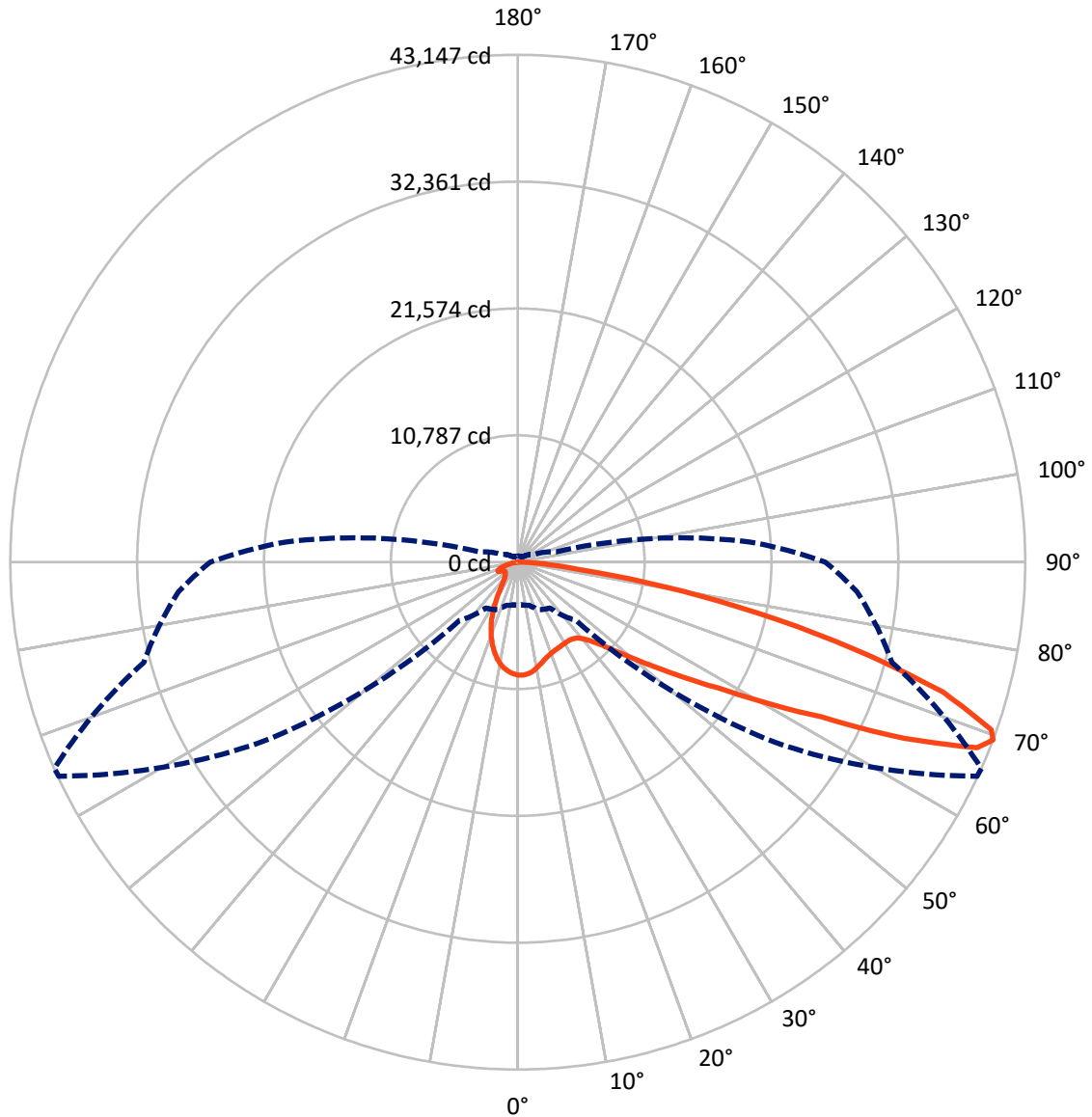
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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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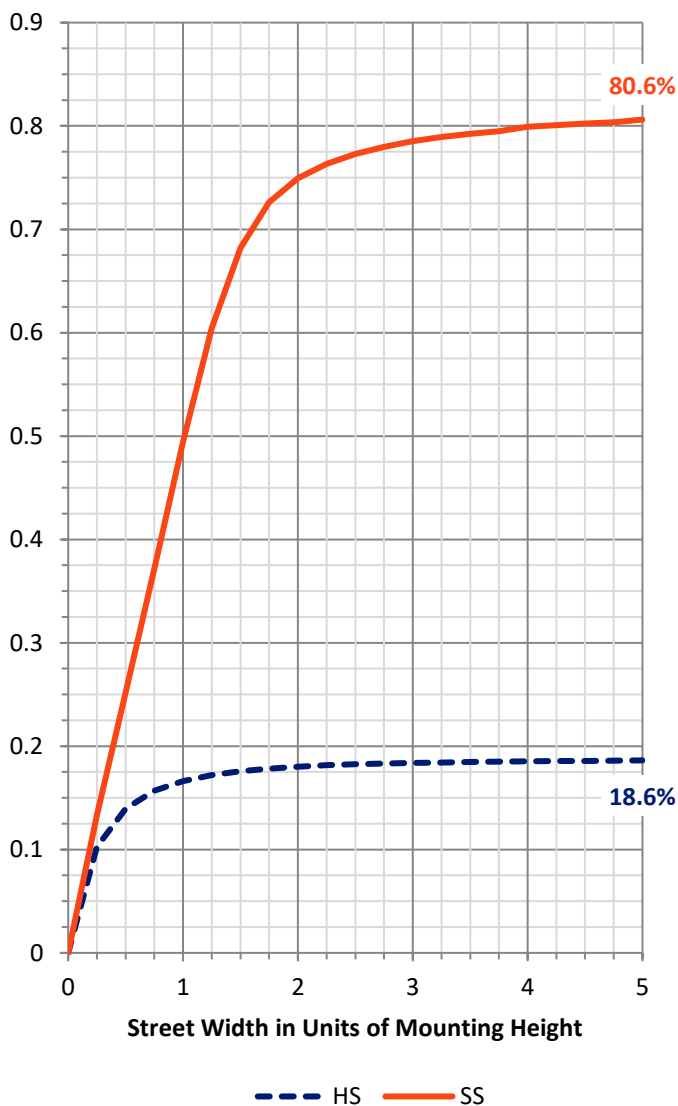
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7826.0	0.0	7826.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33788.0	0.0	33788.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	41614.0	0.0	41614.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	834.5	2.0
10°-20°	1979.4	4.8
20°-30°	2694.7	6.5
30°-40°	3621.1	8.7
40°-50°	5406.8	13.0
50°-60°	8600.5	20.7
60°-70°	10578.1	25.4
70°-80°	6882.6	16.5
80°-90°	1016.4	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°	41614.0	100.0
0°-180°	41614.0	100.0



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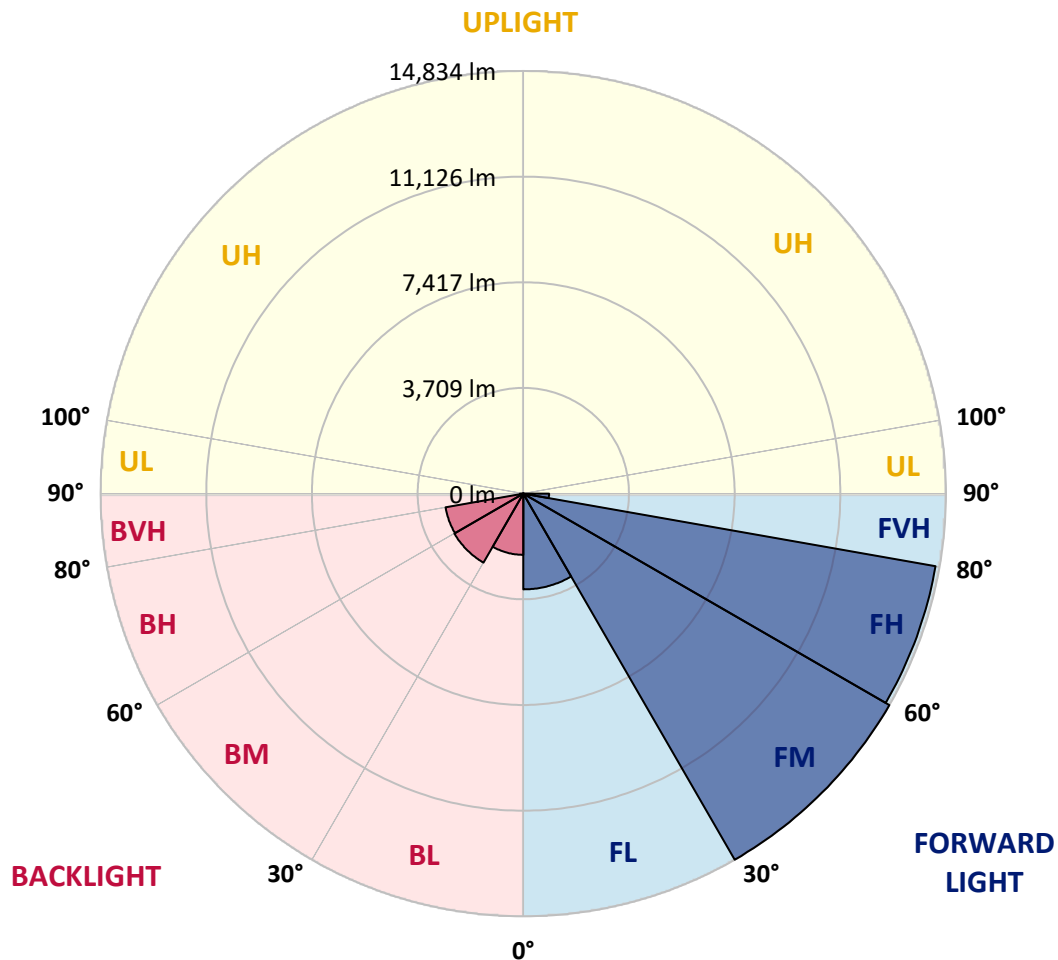
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3360.3	8.1			
FM	(30°-60°)	14834.1	35.6			
FH	(60°-80°)	14690.0	35.3			G5
FVH	(80°-90°)	903.6	2.2			G5
BL	(0°-30°)	2148.3	5.2	B3/2500		
BM	(30°-60°)	2794.2	6.7	B3/5000		
BH	(60°-80°)	2770.8	6.7	B4/5000		G4/5000
BVH	(80°-90°)	112.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9609.8	9609.8	9609.8	9609.8	9609.8	9609.8	9609.8	9609.8	9609.8	9609.8	9609.8
2.5°	9273.4	9310.2	9351.7	9397.8	9485.4	9533.8	9568.3	9607.5	9612.1	9632.9	9616.7
5°	8588.9	8632.7	8694.9	8782.5	8913.9	9119.0	9331.0	9503.8	9524.6	9621.4	9649.0
7.5°	8017.4	8042.8	8093.5	8234.0	8420.7	8648.8	8957.7	9307.9	9358.6	9589.1	9669.7
10°	7551.9	7577.2	7637.2	7782.3	7966.7	8252.5	8591.2	9052.1	9093.6	9490.0	9674.4
12.5°	7203.9	7227.0	7291.5	7434.4	7646.4	7913.7	8287.0	8775.6	8835.5	9358.6	9630.6
15°	6938.9	6982.7	7035.7	7153.2	7376.8	7634.9	7996.7	8522.1	8570.5	9220.4	9600.6
17.5°	6826.0	6846.7	6883.6	6991.9	7155.5	7409.0	7773.1	8323.9	8381.5	9123.6	9593.7
20°	6830.6	6851.3	6858.2	6918.2	7035.7	7254.6	7614.1	8167.2	8236.3	9038.3	9605.2
22.5°	6987.3	6989.6	6964.2	6943.5	6989.6	7171.7	7501.2	8049.7	8130.3	9001.4	9614.4
25°	7229.3	7270.7	7233.9	7137.1	7051.8	7139.4	7457.4	7985.1	8061.2	8948.4	9602.9
27.5°	7621.0	7627.9	7598.0	7466.6	7245.4	7180.9	7439.0	7936.8	8001.3	8909.3	9545.3
30°	8146.5	8125.7	8098.1	7952.9	7604.9	7339.9	7478.2	7893.0	7959.8	8851.6	9476.2
32.5°	8678.8	8743.3	8718.0	8547.4	8095.8	7648.7	7604.9	7888.4	7943.7	8807.9	9400.1
35°	9243.4	9273.4	9393.2	9305.6	8842.4	8148.8	7842.3	7959.8	8003.6	8810.2	9347.1
37.5°	9685.9	9766.5	10047.7	10123.7	9688.2	8810.2	8227.1	8162.6	8181.0	8923.1	9367.9
40°	10220.5	10358.8	10720.6	11031.7	10746.0	9669.7	8881.6	8538.2	8561.3	9195.0	9503.8
42.5°	10898.1	10994.8	11481.1	11902.8	11856.7	10805.9	9674.4	9153.5	9165.1	9736.6	9884.1
45°	11690.8	11829.1	12375.2	13009.0	13117.3	12091.8	10819.7	10084.6	10077.6	10577.7	10593.9
47.5°	12704.8	12790.1	13331.6	14023.0	14460.8	13707.3	12209.3	11421.2	11347.4	11803.7	11672.4
50°	13638.1	13771.8	14182.0	14937.9	16027.9	15599.3	14036.8	13154.2	12981.3	13407.7	13186.4
52.5°	14029.9	14170.5	14516.1	15454.1	17371.4	18046.7	16357.4	15221.3	14933.3	15260.5	15179.8
55°	13350.1	13532.1	13854.7	14995.5	17961.4	20869.7	19487.0	17611.1	17401.4	17260.8	17283.9
57.5°	11522.6	11695.4	12131.0	13389.2	17256.2	22918.4	23955.4	20683.0	20233.6	19586.1	19696.7
60°	8771.0	8879.3	9105.1	10499.4	15166.0	23450.7	29030.0	24566.1	24280.4	21902.1	21980.5
62.5°	6229.1	6351.2	6508.0	7203.9	11103.2	21950.5	33003.0	29988.7	28967.8	24301.1	24225.1
65°	5058.4	4975.4	5164.4	5489.4	6514.9	17011.9	33897.1	37515.2	36109.5	27460.6	26405.1
67.5°	4159.7	4072.1	4258.7	4837.2	4954.7	9874.8	30675.4	42400.8	42119.6	30896.6	28619.8
69°	3682.6	3636.5	3800.1	4459.2	4756.5	7012.6	26723.2	43080.6	43147.4	32922.3	28960.8
70°	3318.5	3336.9	3495.9	4268.0	4666.6	5782.0	22840.1	42142.7	42709.6	33934.0	28592.1
72.5°	2442.8	2482.0	2703.2	3535.1	4581.4	4906.3	13592.0	36810.0	37812.5	33993.9	26156.2
75°	1707.6	1689.2	1885.1	2661.7	4327.9	4862.5	7982.8	28467.7	29603.8	29382.6	21978.2
77.5°	1117.7	1147.6	1304.4	1880.5	3641.1	4825.7	5203.6	20196.8	20934.2	19650.6	12999.8
80°	788.1	785.8	873.4	1283.6	2700.9	4636.7	4261.0	12730.1	12543.5	7722.4	3855.5
82.5°	451.7	483.9	585.3	903.4	1806.7	4081.3	3920.0	6088.5	5558.5	2200.8	1302.1
85°	251.2	262.7	348.0	546.2	1055.5	3074.2	3422.2	2770.0	2613.3	919.5	560.0
87.5°	80.7	87.6	145.2	276.5	479.3	1451.8	1938.1	1279.0	1179.9	331.9	225.8
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°	9609.8	9609.8	9609.8	9609.8	9609.8	9609.8	9609.8	9609.8	9609.8	9609.8	9609.8
2.5°	9623.7	9651.3	9577.6	9506.1	9441.6	9351.7	9271.1	9204.2	9158.1	9151.2	9128.2
5°	9655.9	9658.2	9517.6	9328.7	9144.3	8941.5	8731.8	8582.0	8441.4	8363.1	8323.9
7.5°	9679.0	9658.2	9404.7	9098.2	8743.3	8374.6	8005.9	7710.9	7482.8	7392.9	7427.5
10°	9669.7	9605.2	9234.2	8743.3	8227.1	7676.3	7146.3	6731.5	6351.2	6155.4	6160.0
12.5°	9619.0	9513.0	8980.7	8344.6	7586.5	6849.0	6037.8	5477.8	5037.7	4777.3	4696.6
15°	9575.3	9390.9	8683.4	7803.1	6860.5	5807.4	4818.7	4127.4	3758.7	3553.6	3551.3
17.5°	9529.2	9273.4	8358.5	7229.3	6026.3	4671.3	3634.2	3106.5	2933.6	2954.4	2919.8
20°	9480.8	9135.1	8019.7	6590.9	5010.0	3484.4	2721.6	2507.3	2555.7	2650.2	2664.0
22.5°	9425.5	8987.6	7655.6	5888.0	3940.7	2622.5	2207.7	2175.5	2299.9	2447.4	2468.1
25°	9340.2	8803.2	7197.0	5152.9	3039.7	2113.2	1933.5	1956.5	2078.7	2203.1	2216.9
27.5°	9220.4	8575.1	6733.8	4235.7	2283.8	1813.7	1767.6	1797.5	1857.4	1933.5	1951.9
30°	9059.0	8317.0	6201.5	3442.9	1829.8	1663.9	1645.4	1661.6	1696.1	1728.4	1737.6
32.5°	8897.7	8068.1	5664.5	2636.4	1631.6	1564.8	1546.3	1546.3	1546.3	1550.9	1553.2
35°	8747.9	7833.0	5088.4	2053.3	1527.9	1486.4	1461.1	1433.4	1428.8	1412.7	1412.7
37.5°	8665.0	7618.7	4475.4	1719.2	1451.8	1421.9	1387.3	1341.2	1315.9	1318.2	1313.6
40°	8681.1	7478.2	3917.7	1530.2	1389.6	1357.4	1304.4	1251.4	1235.2	1235.2	1230.6
42.5°	8863.2	7432.1	3383.0	1431.1	1329.7	1292.8	1226.0	1177.6	1168.4	1166.1	1170.7
45°	9282.6	7545.0	2903.7	1366.6	1279.0	1223.7	1156.9	1113.1	1103.9	1103.9	1101.6
47.5°	10100.7	7911.4	2560.3	1325.1	1242.1	1170.7	1101.6	1057.8	1041.6	1037.0	1037.0
50°	11372.8	8706.5	2304.5	1288.2	1196.0	1122.3	1050.9	1000.2	974.8	972.5	970.2
52.5°	13140.3	9946.3	2205.4	1260.6	1145.3	1071.6	993.2	944.9	912.6	905.7	901.1
55°	15207.5	11677.0	2341.4	1239.8	1092.3	1014.0	933.3	882.6	852.7	838.8	836.5
57.5°	17601.9	13755.7	2857.6	1212.2	1043.9	951.8	873.4	822.7	790.4	774.3	769.7
60°	19752.0	15891.9	3758.7	1196.0	1002.5	884.9	804.3	758.2	728.2	712.1	709.8
62.5°	22114.1	17929.1	4834.9	1239.8	984.0	820.4	739.7	698.3	672.9	656.8	656.8
65°	24637.6	19968.6	5547.0	1387.3	1011.7	769.7	670.6	636.0	613.0	601.5	599.2
67.5°	26338.3	20673.8	4569.9	1539.4	1080.8	714.4	603.8	576.1	562.3	550.8	550.8
69°	26153.9	19782.0	3371.5	1578.6	1101.6	686.7	566.9	546.2	527.7	523.1	518.5
70°	25570.9	18765.7	2825.3	1553.2	1085.4	661.4	543.9	518.5	502.4	497.8	495.5
72.5°	22775.5	16274.5	2104.0	1350.4	924.1	573.8	481.6	458.6	444.8	437.9	437.9
75°	18922.4	13301.7	1643.1	1073.9	723.6	483.9	412.5	394.1	382.5	377.9	375.6
77.5°	10605.4	7427.5	1179.9	841.1	548.5	391.8	345.7	329.5	318.0	313.4	313.4
80°	2954.4	2122.5	693.7	555.4	373.3	297.3	274.2	262.7	246.6	235.1	242.0
82.5°	1113.1	919.5	396.4	334.2	237.4	198.2	191.3	182.1	175.1	159.0	159.0
85°	541.6	447.1	253.5	177.4	131.4	103.7	99.1	94.5	89.9	78.4	80.7
87.5°	186.7	198.2	110.6	64.5	39.2	25.3	20.7	11.5	11.5	11.5	11.5
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)