

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: P647380

Luminaire Tested: **GALN-SA4D-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4D-835-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20309.5 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

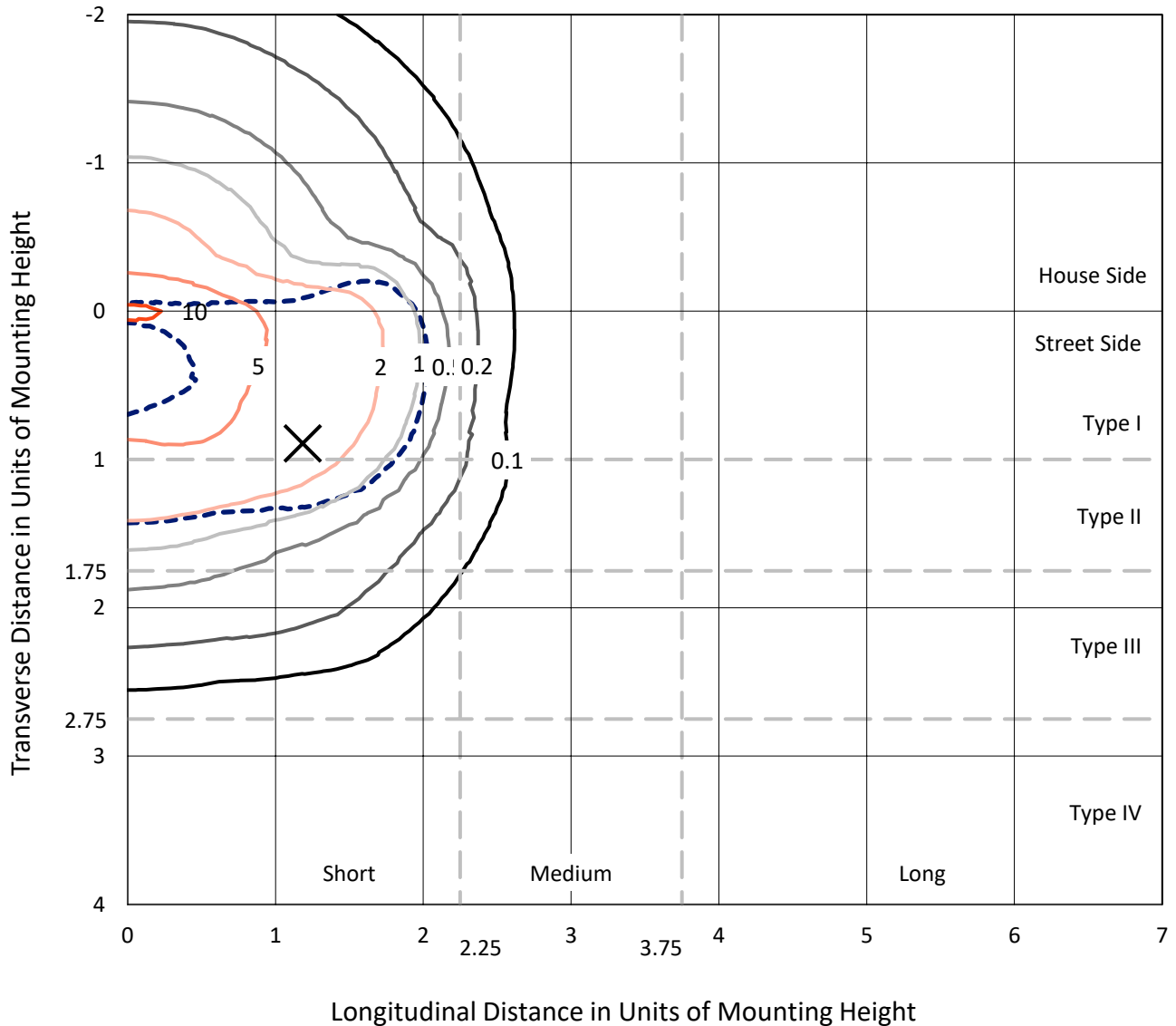
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

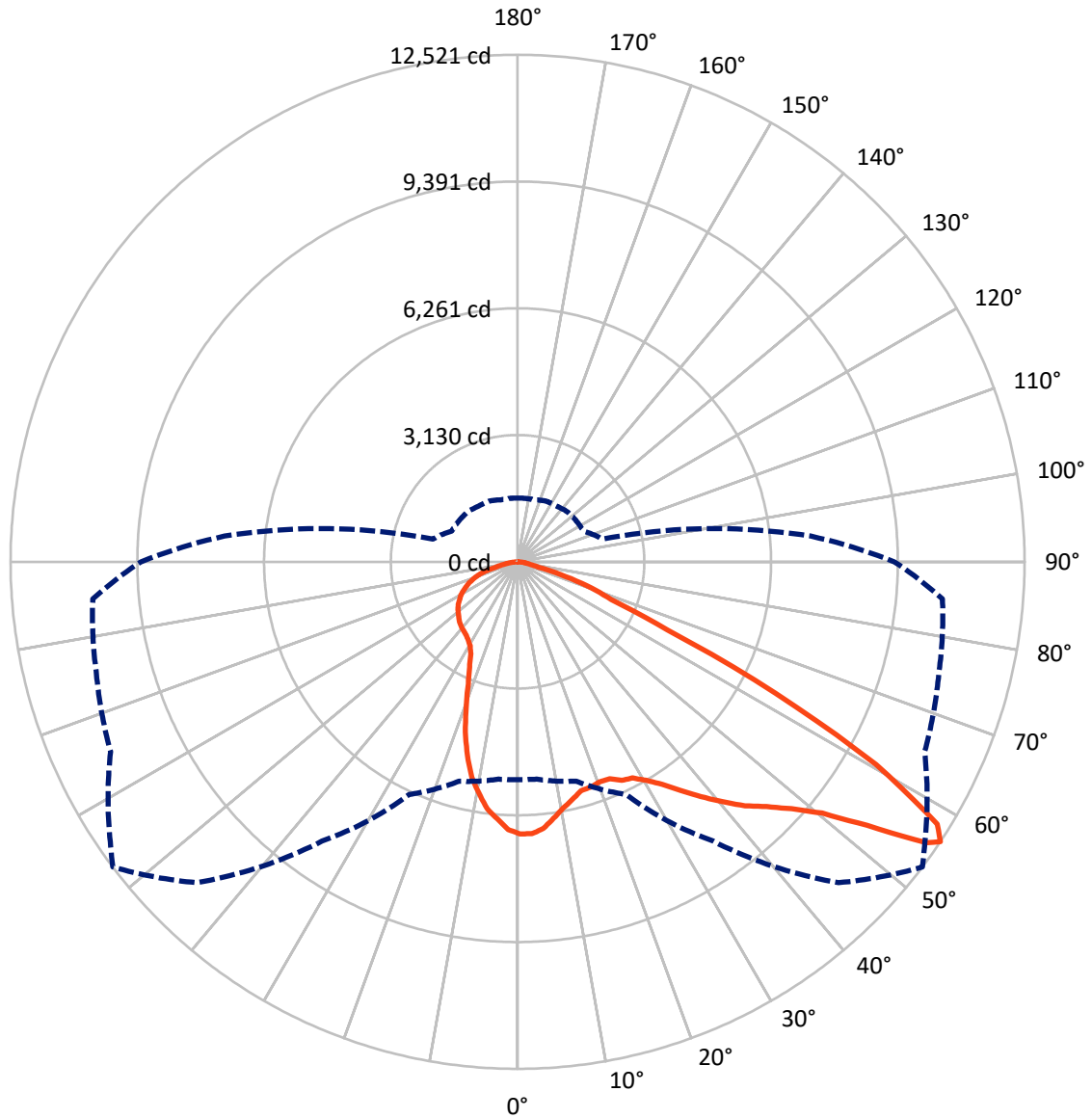
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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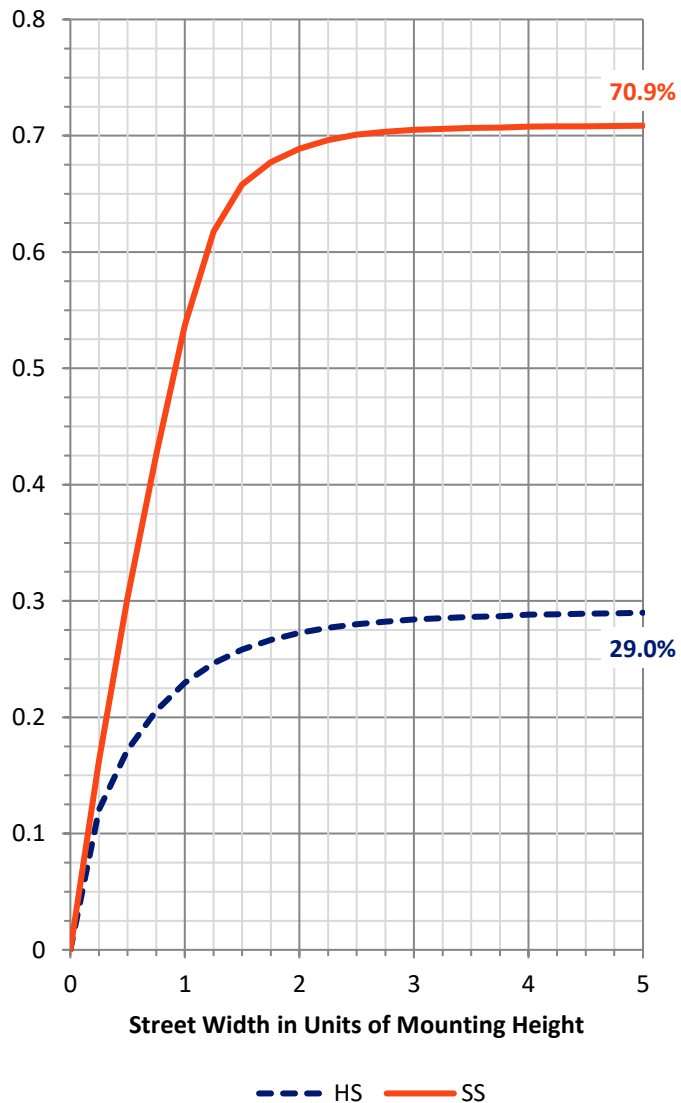
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5926.7	0.0	5926.7
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	14382.7	0.0	14382.7
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	20309.5	0.0	20309.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.8	2.9
10°-20°	1485.6	7.3
20°-30°	2190.7	10.8
30°-40°	3130.1	15.4
40°-50°	4308.2	21.2
50°-60°	5091.1	25.1
60°-70°	2713.2	13.4
70°-80°	688.3	3.4
80°-90°	107.3	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°	20309.5	100.0
0°-180°	20309.5	100.0

**Coefficient of Utilization**

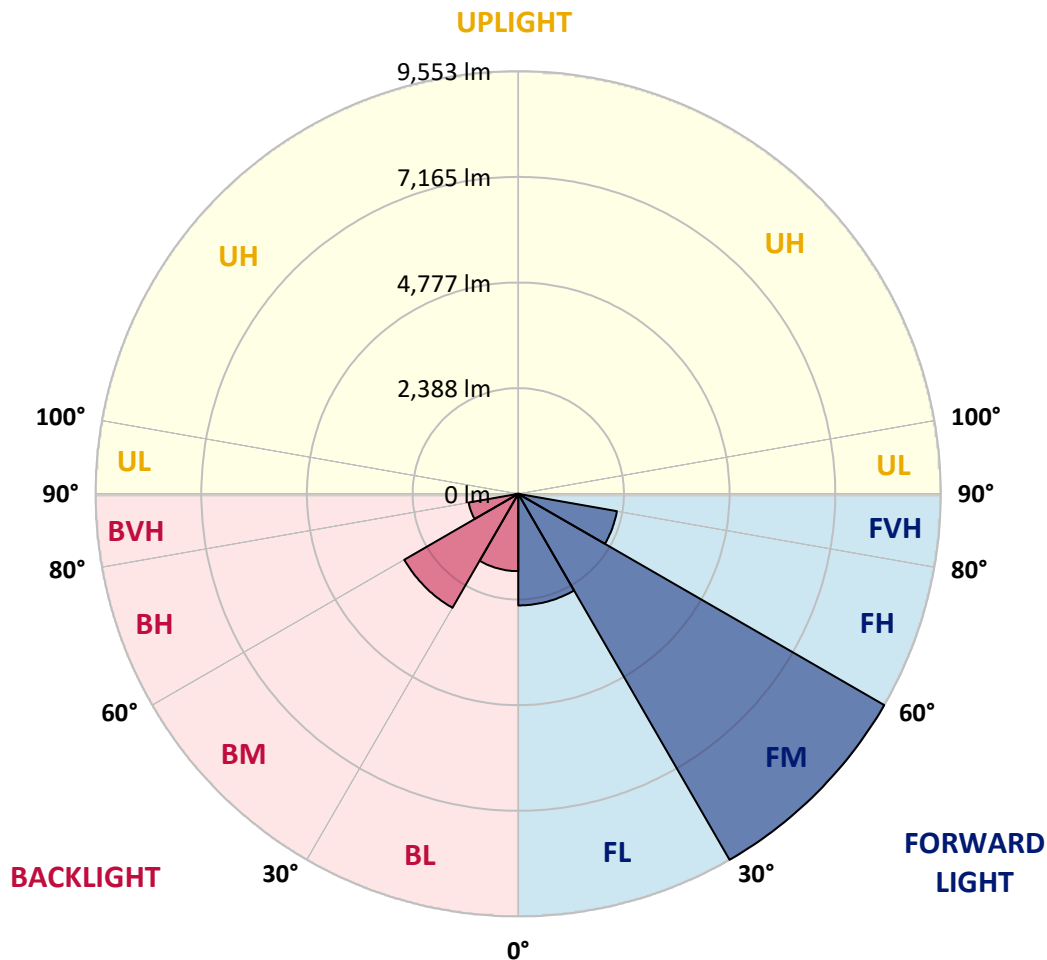


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2523.2	12.4			
FM (30°-60°)	9553.2	47.0			
FH (60°-80°)	2263.2	11.1			G2/5000
FVH (80°-90°)	43.1	0.2			G1/100
BL (0°-30°)	1748.0	8.6	B3/2500		
BM (30°-60°)	2976.2	14.7	B3/5000		
BH (60°-80°)	1138.3	5.6	B3/2500		G3/2500
BVH (80°-90°)	64.2	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°	53°	55°	65°	75°	85°
0°	6719.2	6719.2	6719.2	6719.2	6719.2	6719.2	6719.2	6719.2	6719.2	6719.2	6719.2
2.5°	6635.8	6578.5	6612.4	6599.4	6706.2	6737.4	6721.7	6734.8	6794.7	6766.1	6706.2
5°	6200.7	6281.5	6297.1	6336.2	6398.7	6521.1	6617.5	6643.6	6672.3	6805.1	6792.1
7.5°	5804.7	5859.4	5830.8	5945.4	6080.9	6278.9	6396.1	6416.9	6680.1	6753.1	6807.7
10°	5554.6	5499.9	5630.2	5661.4	5815.1	6041.8	6182.5	6268.5	6508.1	6797.3	6831.2
12.5°	5322.7	5304.4	5382.7	5471.2	5643.2	5877.7	6021.0	6054.8	6424.7	6729.6	6888.5
15°	5150.7	5129.9	5208.0	5273.2	5473.8	5682.2	5864.6	5961.0	6333.6	6690.5	6839.0
17.5°	5015.3	5012.7	5056.9	5174.2	5380.0	5554.6	5849.0	5854.2	6286.7	6750.4	6880.7
20°	5007.4	5004.9	5012.7	5142.9	5330.5	5544.2	5799.4	5846.3	6286.7	6708.7	6883.3
22.5°	5072.6	5030.9	5077.8	5161.1	5296.7	5562.4	5817.7	5921.9	6437.8	6914.6	7000.6
25°	5176.8	5187.2	5213.3	5242.0	5320.1	5604.1	5979.2	6065.2	6614.9	7091.7	7162.1
27.5°	5367.0	5361.7	5372.2	5387.8	5455.6	5643.2	6044.4	6265.8	6984.9	7406.9	7336.6
30°	5645.7	5627.5	5669.2	5724.0	5661.4	5768.2	6260.6	6427.3	7328.8	7724.8	7532.1
32.5°	5898.5	5966.2	6044.4	6067.9	5992.3	6013.1	6547.2	6716.6	7615.4	8115.6	7771.7
35°	6213.7	6268.5	6372.7	6445.6	6432.6	6370.0	6938.0	7162.1	8029.7	8402.2	8024.4
37.5°	6521.1	6586.3	6758.2	6974.5	6854.6	6826.0	7354.9	7539.8	8157.3	8555.9	8209.4
40°	7016.1	7013.6	7310.6	7422.6	7529.4	7479.9	7787.3	7849.9	8225.0	8522.1	8214.6
42.5°	7597.1	7560.7	7862.9	8037.5	8175.5	8180.8	8238.1	8217.3	8256.3	8350.1	8160.0
45°	8149.5	8227.7	8532.5	8845.2	8983.2	8998.9	8618.5	8579.4	8311.0	8300.6	8055.7
47.5°	8824.3	8842.5	9092.7	9504.3	9824.7	9715.3	9110.8	9024.9	8550.8	8631.5	8230.3
50°	8863.3	8998.9	9222.9	9707.5	10692.3	10663.7	9749.2	9587.7	8936.3	9100.4	8717.5
52.5°	8045.2	8014.0	8279.8	9071.8	10627.2	11606.8	10807.0	10421.3	9764.8	9639.7	9506.9
55°	6130.3	6203.3	6437.8	7237.7	9228.1	11619.8	12247.7	11932.5	10650.6	10437.0	10283.3
56°	5377.4	5387.8	5609.3	6338.8	8420.5	11205.6	12521.3	12265.9	11091.0	10765.2	10530.8
57.5°	4457.7	4397.8	4512.4	4911.1	7107.4	10330.2	12221.6	12471.8	11606.8	11119.6	10793.9
60°	3509.4	3496.3	3449.5	3522.4	4491.6	7782.2	10173.8	10736.6	11554.7	10786.1	10337.9
62.5°	2865.9	2800.7	2894.5	2998.7	3121.2	4827.7	7149.0	7479.9	9173.4	8610.7	7766.5
65°	2222.4	2191.1	2308.4	2647.0	2720.0	3066.5	4072.1	4327.5	5416.5	5320.1	4684.4
67.5°	1529.4	1534.5	1636.2	2152.0	2522.0	2490.7	2493.3	2626.2	2826.8	2099.9	1828.9
70°	969.2	966.6	1021.3	1386.1	2029.5	2050.4	1946.2	1907.1	1808.1	1094.2	1159.4
72.5°	622.6	604.5	633.1	765.9	1049.9	1214.1	1250.5	1274.0	1047.3	859.7	932.7
75°	351.7	333.5	323.1	357.0	414.3	479.4	526.3	541.9	607.1	651.3	690.4
77.5°	106.8	96.4	117.2	156.3	205.9	276.2	336.1	346.5	409.0	461.1	500.3
80°	46.9	52.1	73.0	104.2	145.9	195.4	237.1	252.8	294.4	333.5	343.9
82.5°	28.7	31.2	49.5	70.3	101.6	138.1	169.4	174.5	216.3	247.5	255.3
85°	10.4	13.0	26.1	41.7	65.1	88.6	88.6	96.4	88.6	88.6	96.4
87.5°	0.0	0.0	2.6	5.2	5.2	7.8	10.4	10.4	13.0	15.7	18.2
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°	6719.2	6719.2	6719.2	6719.2	6719.2	6719.2	6719.2	6719.2	6719.2	6719.2	6719.2
2.5°	6737.4	6724.4	6703.5	6628.0	6620.2	6596.7	6466.5	6445.6	6466.5	6403.9	6409.2
5°	6724.4	6763.5	6607.1	6531.6	6390.9	6289.3	6172.1	6112.1	6005.3	5937.6	6013.1
7.5°	6781.7	6766.1	6570.7	6406.5	6195.5	5937.6	5731.7	5614.5	5426.9	5374.8	5413.9
10°	6760.9	6677.5	6448.2	6232.0	5833.4	5606.7	5273.2	4950.1	4773.0	4681.8	4668.8
12.5°	6732.2	6708.7	6325.8	5953.2	5533.8	5056.9	4588.0	4283.2	3994.0	3869.0	3887.2
15°	6766.1	6568.0	6096.5	5624.9	5067.4	4442.1	3936.7	3543.2	3342.6	3261.9	3261.9
17.5°	6750.4	6500.3	5987.1	5257.6	4551.5	3811.6	3256.7	3019.6	2936.2	2936.2	2959.7
20°	6758.2	6544.6	5765.6	4890.2	3941.9	3209.8	2806.0	2720.0	2756.5	2769.5	2782.5
22.5°	6802.5	6398.7	5549.4	4486.4	3376.5	2746.1	2548.0	2550.6	2615.8	2686.1	2673.1
25°	6857.3	6341.4	5286.3	4085.1	2944.0	2519.4	2456.8	2449.0	2498.6	2535.0	2540.2
27.5°	6810.4	6242.4	5017.9	3585.0	2589.7	2368.3	2355.3	2360.4	2376.1	2449.0	2425.6
30°	6964.1	6271.0	4681.8	3165.5	2394.3	2318.8	2303.1	2295.3	2318.8	2339.6	2321.4
32.5°	7154.3	6169.4	4431.7	2761.6	2297.9	2282.3	2251.0	2240.6	2253.6	2232.8	2243.2
35°	7237.7	6151.2	4106.1	2472.5	2222.4	2209.3	2191.1	2188.5	2191.1	2172.8	2157.2
37.5°	7284.6	6237.1	3733.4	2339.6	2175.5	2188.5	2146.8	2141.6	2094.7	2105.1	2112.9
40°	7365.3	6104.3	3431.3	2211.9	2146.8	2120.8	2084.3	2076.4	2045.2	2027.0	2045.2
42.5°	7248.1	6065.2	3134.2	2157.2	2105.1	2076.4	2050.4	2006.1	1995.7	1980.1	1969.6
45°	7154.3	5841.2	2868.4	2089.5	2055.6	2039.9	1990.5	1943.6	1904.5	1920.2	1896.7
47.5°	7224.6	5763.0	2605.4	2032.2	1987.9	1969.6	1920.2	1883.7	1844.6	1826.3	1821.1
50°	7506.0	5908.9	2383.9	1990.5	1930.6	1920.2	1855.0	1813.3	1776.9	1763.8	1769.0
52.5°	8178.1	6307.5	2232.8	1904.5	1875.8	1828.9	1792.4	1740.4	1716.9	1675.2	1701.3
55°	9030.1	6956.3	2193.7	1823.8	1808.1	1766.4	1716.9	1677.8	1633.6	1599.7	1591.8
56°	9303.7	7266.3	2162.4	1792.4	1766.4	1743.0	1677.8	1654.4	1584.0	1576.3	1571.0
57.5°	9525.1	7539.8	2167.7	1732.5	1706.5	1685.6	1646.6	1589.3	1542.4	1513.7	1526.7
60°	9024.9	7057.9	2068.6	1641.3	1636.2	1597.1	1542.4	1516.3	1459.0	1425.1	1417.3
62.5°	6708.7	4791.3	1677.8	1524.1	1521.5	1479.9	1417.3	1388.7	1378.2	1331.3	1331.3
65°	3863.7	3004.0	1451.2	1427.7	1406.9	1365.2	1302.7	1279.2	1253.2	1237.5	1224.5
67.5°	1649.2	1558.0	1318.3	1315.7	1292.3	1240.1	1177.6	1141.1	1107.2	1076.0	1091.7
70°	1195.9	1214.1	1190.6	1177.6	1149.0	1083.8	1029.1	984.8	932.7	911.9	927.5
72.5°	948.4	987.4	1021.3	1023.9	990.0	914.5	854.6	794.7	737.3	708.6	721.7
75°	719.1	745.1	779.0	786.8	737.3	685.2	627.9	565.3	521.1	487.2	492.4
77.5°	518.4	513.3	544.5	539.3	515.8	479.4	427.3	370.0	320.5	289.2	291.8
80°	354.3	362.1	380.4	377.8	349.1	325.6	286.6	239.7	203.2	177.2	171.9
82.5°	247.5	260.5	276.2	263.2	239.7	216.3	187.6	153.7	125.0	104.2	99.0
85°	88.6	101.6	117.2	125.0	132.9	127.6	106.8	86.0	62.6	52.1	49.5
87.5°	18.2	20.8	23.4	23.4	23.4	20.8	18.2	18.2	15.7	7.8	7.8
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)