

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: P383261

Luminaire Tested: **GLEON-SA5D-735-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5D-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37635.5 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

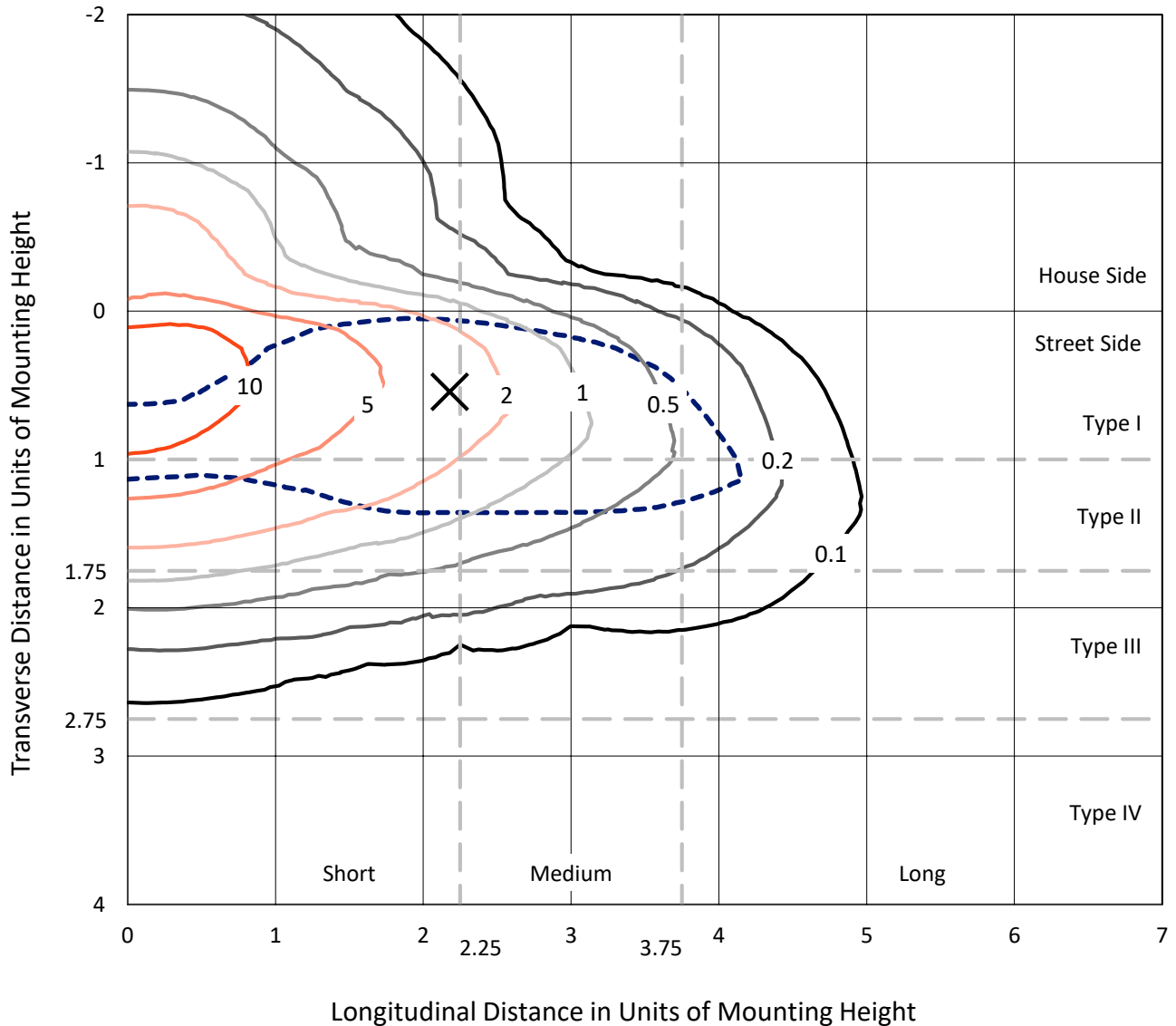
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

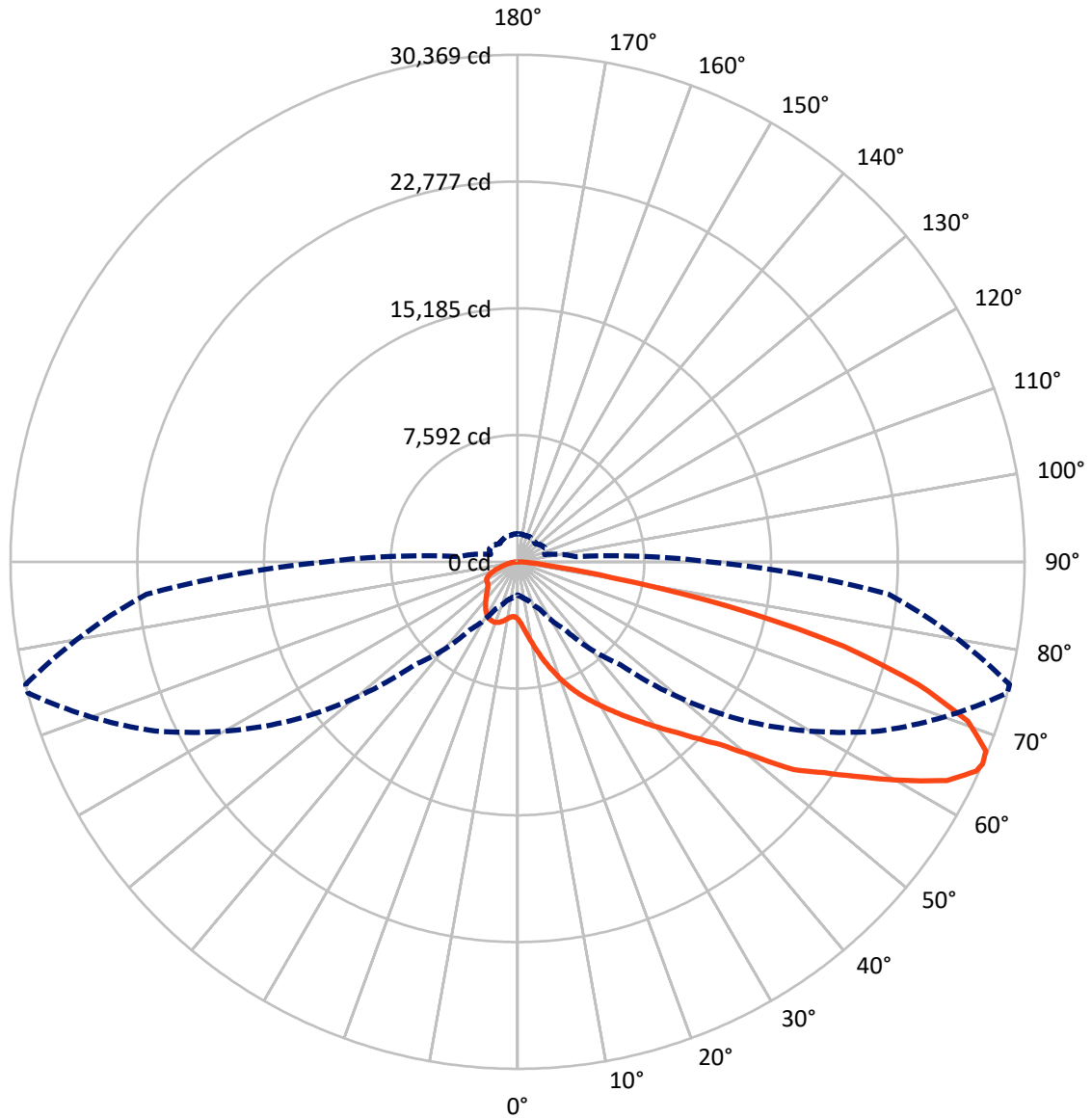
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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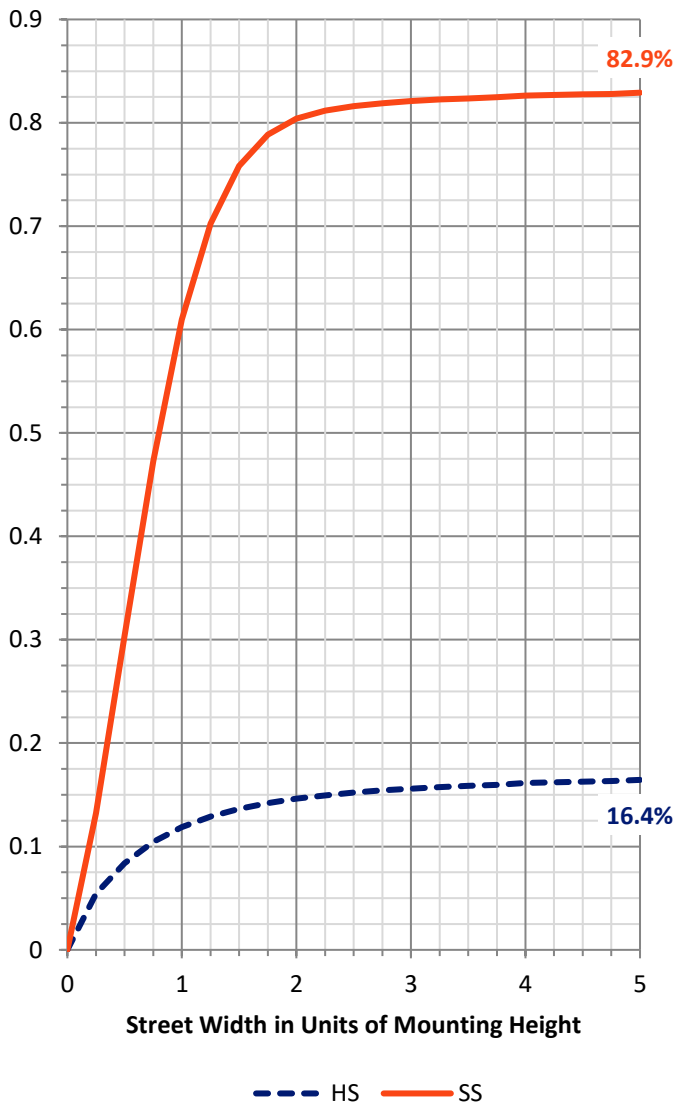
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6332.8	0.0	6332.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	31302.7	0.0	31302.7
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	37635.5	0.0	37635.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.6	1.1
10°-20°	1641.3	4.4
20°-30°	3189.4	8.5
30°-40°	5205.8	13.8
40°-50°	7112.3	18.9
50°-60°	8284.4	22.0
60°-70°	7427.2	19.7
70°-80°	3753.4	10.0
80°-90°	606.1	1.6
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°	37635.5	100.0
0°-180°	37635.5	100.0



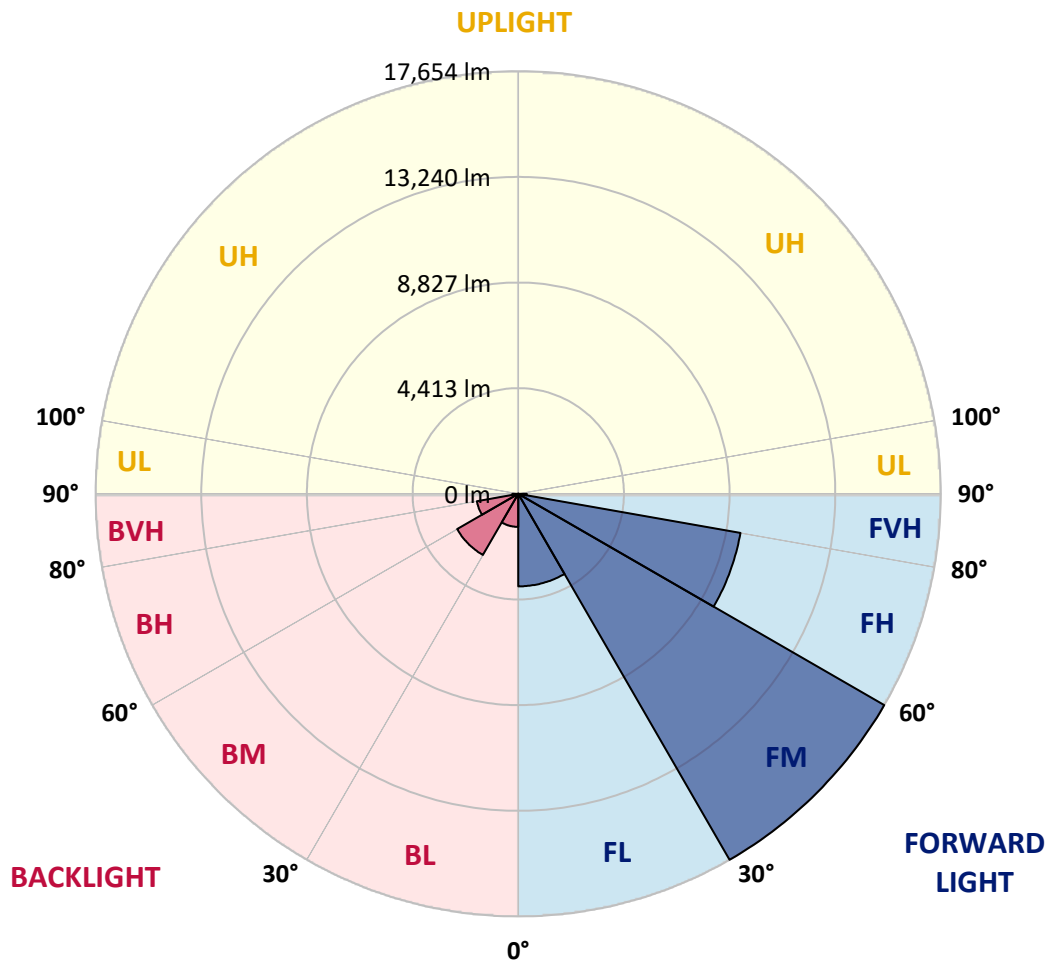
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3865.1	10.3			
FM (30°-60°)	17653.6	46.9			
FH (60°-80°)	9426.1	25.0			G4/12000
FVH (80°-90°)	357.9	1.0			G3/500
BL (0°-30°)	1381.2	3.7	B3/2500		
BM (30°-60°)	2948.9	7.8	B3/5000		
BH (60°-80°)	1754.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	248.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3436.9	3436.9	3436.9	3436.9	3436.9	3436.9	3436.9	3436.9	3436.9	3436.9	3436.9
2.5°	4562.6	4493.6	4487.3	4386.3	4363.3	4170.4	4028.6	3880.4	3711.7	3678.4	3545.6
5°	5860.7	5854.3	5766.2	5601.4	5472.3	5142.7	4816.8	4471.9	4093.7	4032.4	3733.4
7.5°	7028.5	7018.3	6950.6	6773.0	6586.4	6181.5	5716.3	5187.4	4574.1	4483.4	3987.7
10°	7915.3	7911.4	7888.4	7758.1	7599.7	7211.2	6697.6	5975.7	5132.5	5008.6	4305.8
12.5°	8600.0	8607.8	8623.1	8577.0	8501.7	8170.8	7644.4	6811.3	5727.8	5605.2	4659.7
15°	9063.9	9086.9	9166.1	9231.3	9270.9	9067.7	8557.9	7666.1	6394.8	6247.9	5052.0
17.5°	9297.7	9323.2	9460.0	9656.7	9838.2	9817.7	9412.7	8481.3	7035.0	6893.1	5473.6
20°	9499.5	9518.7	9672.1	9908.4	10229.1	10370.9	10143.5	9265.7	7736.4	7567.7	5920.8
22.5°	10084.7	10109.1	10155.0	10289.2	10572.8	10833.4	10723.6	10008.1	8379.1	8221.9	6345.0
25°	11214.2	11243.6	11143.9	11030.3	11083.9	11265.3	11285.8	10685.2	9030.7	8853.1	6801.1
27.5°	12575.0	12617.2	12447.2	12154.6	11899.0	11828.8	11804.5	11239.8	9652.9	9447.2	7252.1
30°	13907.5	13980.4	13759.3	13379.9	12911.0	12581.3	12337.3	11782.8	10266.2	10069.4	7677.6
32.5°	15209.6	15180.1	14859.5	14488.9	13939.5	13526.8	12936.5	12365.5	10956.1	10729.9	8100.6
35°	16101.3	16111.6	15813.9	15374.4	14850.5	14533.6	13738.9	12994.1	11660.1	11451.9	8581.0
37.5°	16860.3	16813.0	16475.7	16065.6	15614.6	15479.2	14678.0	13686.6	12422.9	12195.4	9092.0
40°	17113.3	17058.3	16837.3	16542.1	16180.6	16169.1	15714.2	14471.0	13285.4	13060.5	9668.3
42.5°	16959.9	16889.7	16799.0	16718.5	16607.4	16658.4	16687.8	15390.9	14233.4	13981.7	10335.1
45°	16393.9	16287.9	16351.7	16526.9	16768.3	17057.1	17566.8	16409.3	15295.2	15084.4	11118.4
47.5°	15523.9	15428.0	15627.4	16001.7	16658.4	17389.3	18398.6	17533.7	16562.6	16353.0	12233.8
50°	14299.8	14327.9	14612.8	15293.9	16286.6	17542.6	19423.3	19022.1	18405.1	18209.5	13755.5
52.5°	12291.3	12296.4	13098.8	14216.8	15627.4	17463.4	19991.9	20924.6	20920.8	20684.4	15204.4
55°	10425.9	10539.6	11174.6	12660.6	14559.2	17146.5	20389.2	21849.6	22572.8	22295.6	16554.9
57.5°	8604.0	8670.4	9272.2	10764.5	13035.0	16302.0	20796.8	22959.9	24476.6	24301.6	18233.8
60°	6531.5	6633.7	7255.9	8634.6	11085.1	14803.2	20835.2	24118.8	26752.1	26575.7	20108.2
62.5°	4239.4	4415.6	4998.3	6290.0	8726.6	12647.8	19945.9	24876.5	28908.8	28846.2	21771.7
65°	2436.6	2569.4	2974.4	3971.0	6020.4	9941.7	17831.3	24585.1	30236.4	30200.6	22393.9
66°	1990.6	2073.7	2384.1	3103.5	4967.7	8730.4	16602.2	23970.6	30368.0	30369.2	22322.4
67.5°	1592.0	1629.1	1768.4	2221.9	3665.6	6919.9	14405.8	22615.0	30204.4	30249.1	21861.2
70°	1317.3	1336.5	1379.9	1489.8	2000.9	4172.9	10225.3	19092.4	28562.6	28597.1	20060.9
72.5°	1181.9	1193.3	1210.0	1225.3	1411.9	2331.8	6245.3	15273.4	25042.6	25087.3	17317.7
75°	1070.7	1077.1	1074.5	1075.8	1184.4	1485.9	3227.4	11403.4	20248.7	20159.2	13266.2
77.5°	940.4	946.7	934.0	936.6	1047.7	1142.3	1606.1	7983.0	13664.8	13033.7	7474.5
80°	794.7	799.8	794.7	803.6	912.3	862.4	934.0	4491.1	6042.2	5715.0	2657.6
82.5°	600.5	622.3	637.6	673.3	751.3	613.3	624.8	1749.2	1839.9	1751.7	815.2
85°	263.2	320.7	480.4	514.9	564.7	368.0	410.2	712.9	748.7	725.8	296.4
87.5°	69.0	75.4	237.6	298.9	313.0	166.1	213.4	324.6	342.4	324.6	98.4
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°	3436.9	3436.9	3436.9	3436.9	3436.9	3436.9	3436.9	3436.9	3436.9	3436.9	3436.9
2.5°	3475.3	3412.7	3300.3	3200.6	3125.2	3074.1	3023.0	2997.4	2982.1	2966.8	2969.3
5°	3586.5	3460.0	3267.0	3130.3	3053.7	3005.1	2979.6	2969.3	2963.0	2947.6	2947.6
7.5°	3753.9	3575.0	3309.2	3168.7	3108.6	3071.6	3056.2	3051.1	3043.5	3025.6	3028.1
10°	3964.7	3714.3	3397.4	3260.6	3205.7	3164.8	3143.1	3135.4	3121.3	3100.9	3103.5
12.5°	4212.6	3886.7	3513.6	3370.5	3304.1	3249.1	3213.4	3191.7	3167.4	3140.5	3141.8
15°	4483.4	4074.5	3638.8	3468.9	3378.2	3301.5	3244.0	3206.9	3168.7	3135.4	3134.2
17.5°	4758.1	4256.0	3734.7	3522.6	3399.9	3299.0	3221.0	3163.5	3116.3	3075.4	3071.6
20°	5054.5	4419.5	3788.3	3517.4	3359.1	3238.9	3135.4	3063.9	3011.5	2970.6	2964.2
22.5°	5356.0	4572.8	3797.3	3465.1	3268.3	3121.3	3012.8	2933.5	2879.9	2837.8	2822.4
25°	5632.0	4691.6	3760.2	3364.1	3141.8	2983.4	2877.4	2796.9	2753.4	2703.5	2688.3
27.5°	5883.7	4774.7	3686.1	3235.1	3000.0	2844.1	2744.4	2675.5	2628.2	2589.9	2577.1
30°	6109.8	4819.5	3564.8	3081.7	2854.4	2712.5	2628.2	2580.9	2540.1	2491.5	2482.6
32.5°	6324.6	4819.5	3408.8	2914.4	2710.0	2596.2	2546.4	2517.0	2471.0	2423.8	2411.0
35°	6539.2	4790.0	3224.8	2739.3	2577.1	2513.2	2510.6	2476.1	2405.9	2342.0	2325.4
37.5°	6765.4	4730.0	3017.8	2575.8	2468.5	2476.1	2497.9	2421.2	2321.5	2230.9	2206.6
40°	7020.9	4646.9	2803.2	2433.9	2377.8	2459.6	2463.4	2342.0	2147.8	2064.8	2043.0
42.5°	7321.1	4563.8	2604.0	2308.7	2306.2	2409.7	2398.2	2170.8	2054.5	2012.3	2000.9
45°	7715.9	4516.6	2414.9	2190.0	2250.0	2329.2	2287.0	2076.2	2027.7	2003.4	1993.1
47.5°	8338.2	4540.9	2241.0	2095.4	2193.8	2248.8	2080.1	2037.9	2003.4	1974.0	1963.8
50°	9117.5	4526.9	2100.5	2030.2	2129.9	2164.4	1986.8	1988.1	1970.2	1937.0	1921.6
52.5°	9704.0	4416.9	2009.8	1993.1	2073.7	2014.9	1928.0	1939.5	1930.5	1882.0	1865.4
55°	10270.0	4322.4	1963.8	1979.2	2032.8	1828.3	1859.0	1887.1	1878.2	1831.0	1823.2
57.5°	10974.0	4304.5	1935.7	1983.0	1998.3	1735.1	1792.6	1829.7	1823.2	1802.8	1799.0
60°	11836.4	4309.6	1910.1	1989.3	1960.0	1666.1	1730.0	1777.3	1781.1	1777.3	1774.7
62.5°	12310.5	4170.4	1846.2	1971.4	1892.3	1606.1	1664.9	1733.8	1735.1	1742.7	1741.4
65°	11908.0	3753.9	1727.5	1908.8	1778.5	1556.2	1608.6	1684.0	1664.9	1699.3	1699.3
66°	11517.0	3513.6	1668.7	1867.9	1730.0	1537.1	1590.7	1658.4	1634.1	1681.4	1681.4
67.5°	10718.5	3108.6	1562.6	1781.1	1660.9	1510.2	1570.3	1616.2	1583.1	1653.3	1648.2
70°	9259.4	2404.6	1349.3	1584.3	1547.3	1470.6	1542.2	1531.9	1483.4	1590.7	1570.3
72.5°	7806.6	1827.0	1083.5	1326.2	1374.8	1420.8	1502.6	1424.6	1363.3	1438.7	1394.0
75°	6057.5	1373.5	856.1	1031.1	1161.5	1342.8	1455.3	1300.7	1212.5	1204.9	1180.6
77.5°	3274.7	942.9	678.4	787.1	922.5	1245.8	1423.3	1167.8	1034.9	1004.3	985.1
80°	1296.8	613.3	493.2	596.7	645.2	1105.2	1346.6	1013.2	853.5	822.8	793.4
82.5°	535.4	362.8	318.1	399.9	420.3	945.5	1208.7	830.5	659.3	912.3	968.4
85°	230.0	199.4	189.1	207.0	237.6	663.1	962.1	633.7	711.7	635.0	504.7
87.5°	69.0	84.3	80.5	79.2	86.9	158.5	512.4	352.7	522.6	198.0	148.2
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)