

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: P533340

Luminaire Tested: **GALN-SA8D-730-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533340  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-730-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48504 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

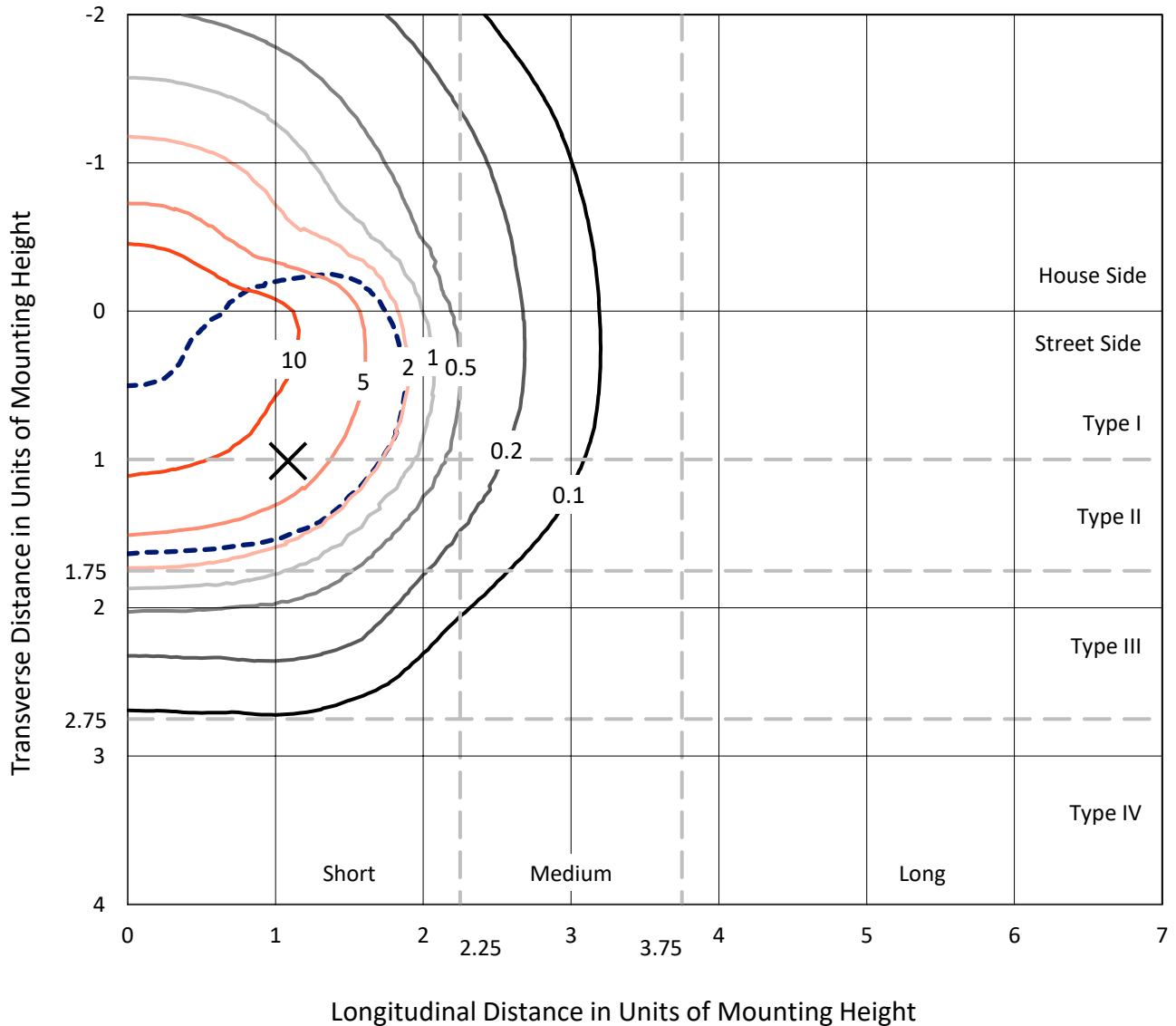
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

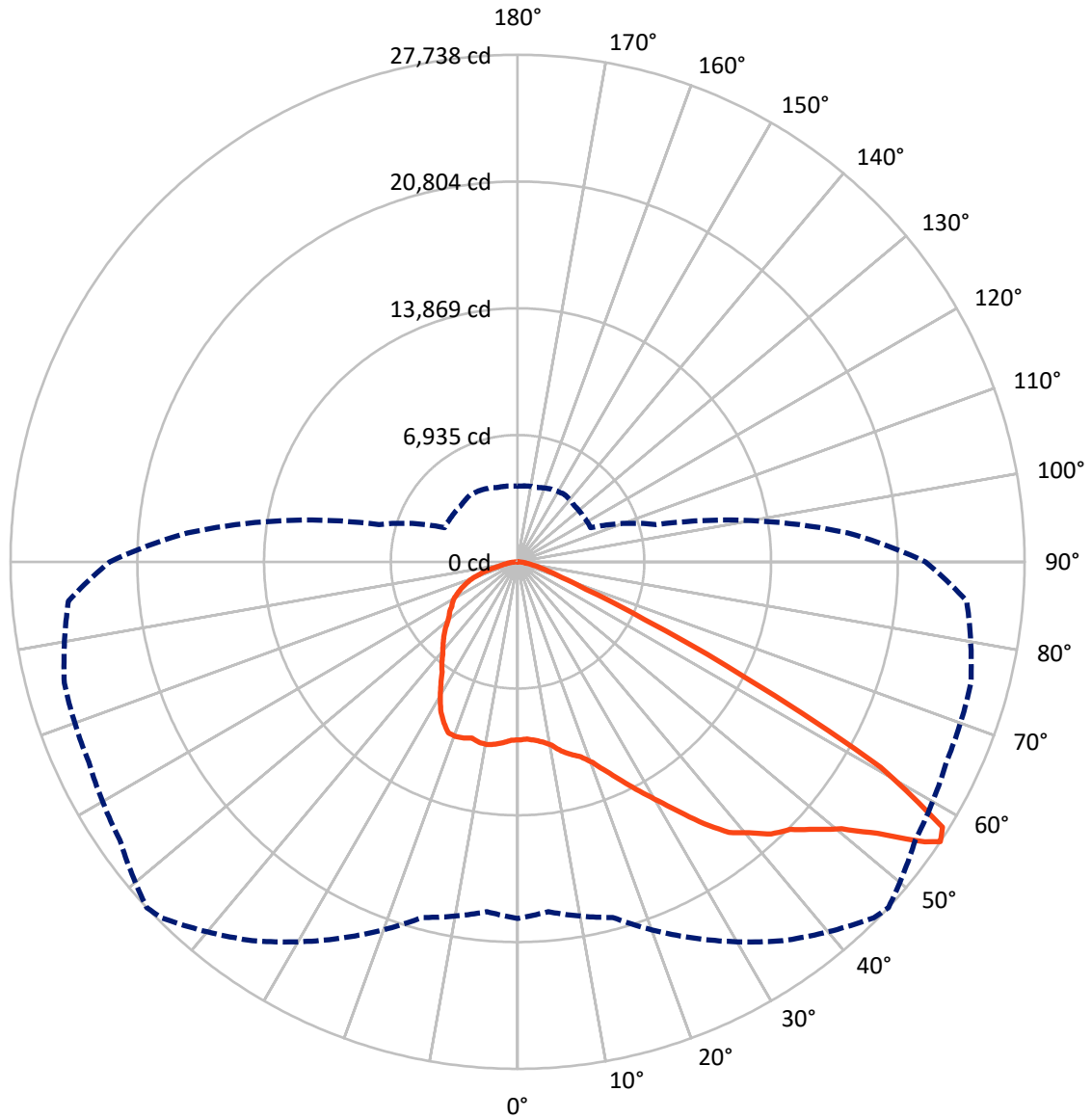
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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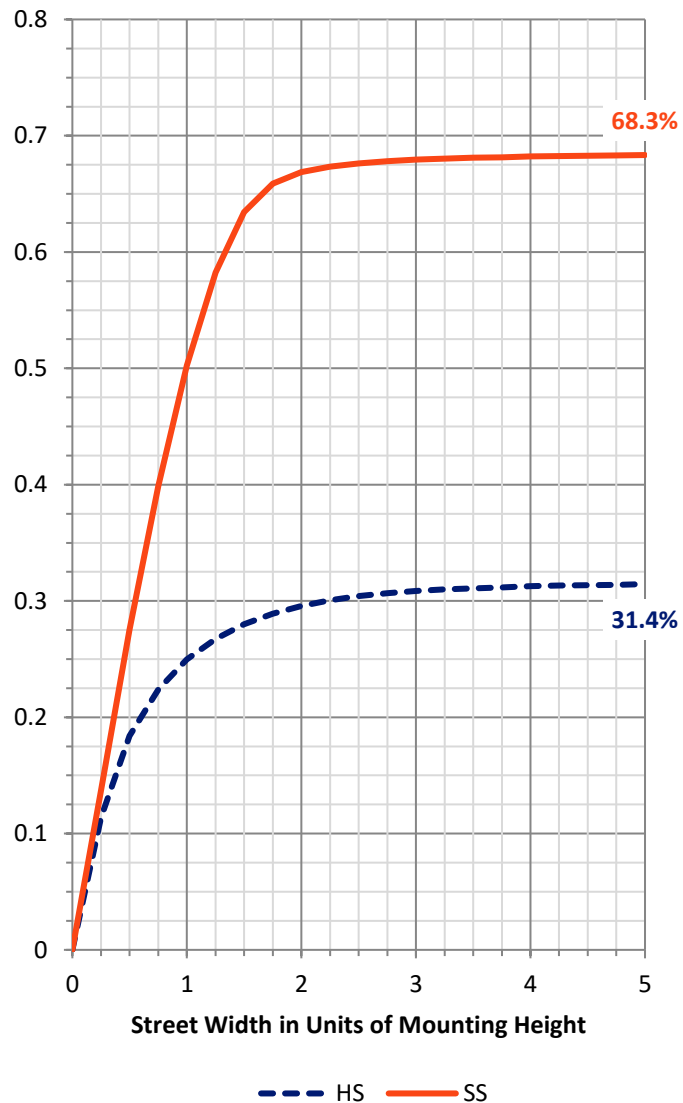
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15370.3	0.0	15370.3
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	33133.7	0.0	33133.7
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	48504.0	0.0	48504.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	949.3	2.0
10°-20°	2994.6	6.2
20°-30°	5293.8	10.9
30°-40°	7951.1	16.4
40°-50°	10912.1	22.5
50°-60°	13000.3	26.8
60°-70°	5563.4	11.5
70°-80°	1574.4	3.2
80°-90°	264.9	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°	48504.0	100.0
0°-180°	48504.0	100.0

**Coefficient of Utilization**



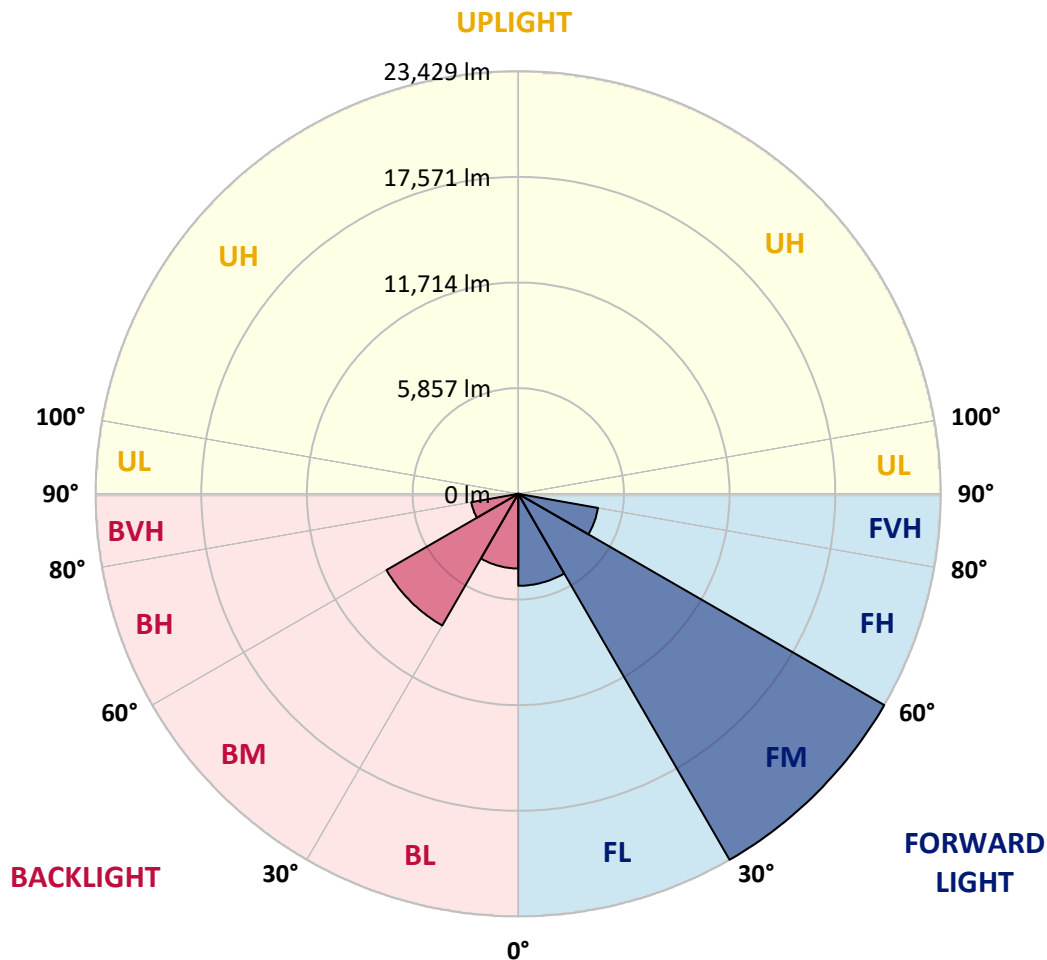
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5099.4	10.5			
FM (30°-60°)	23428.6	48.3			
FH (60°-80°)	4493.2	9.3			G2/5000
FVH (80°-90°)	112.5	0.2			G2/225
BL (0°-30°)	4138.3	8.5	B4/5000		
BM (30°-60°)	8435.0	17.4	B4/8500		
BH (60°-80°)	2644.5	5.5	B4/5000		G4/5000
BVH (80°-90°)	152.5	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0
2.5°	9705.9	9687.3	9674.9	9773.9	9736.8	9743.0	9705.9	9743.0	9767.7	9712.0	9792.5
5°	9687.3	9743.0	9693.5	9724.4	9804.8	9780.1	9804.8	9879.1	9860.5	9842.0	9817.2
7.5°	9860.5	9866.7	9903.8	9916.2	9940.9	9916.2	9953.3	10021.4	10002.8	9897.6	9910.0
10°	10108.0	10120.3	10126.5	10194.6	10237.9	10244.0	10200.7	10138.9	10132.7	10275.0	10176.0
12.5°	10392.5	10361.6	10435.8	10460.6	10510.0	10565.7	10621.4	10491.5	10571.9	10578.1	10460.6
15°	10807.0	10837.9	10751.3	10751.3	10769.9	10776.0	10930.7	10868.8	10856.5	10788.4	10837.9
17.5°	11425.6	11215.3	11209.1	11122.5	11110.1	11159.6	11215.3	11264.7	11431.8	11295.7	11029.7
20°	11877.2	11926.6	11747.3	11642.1	11660.6	11772.0	11716.3	11939.0	12056.6	11833.9	11574.0
22.5°	12675.2	12508.1	12551.4	12316.4	12334.9	12452.5	12446.3	12675.2	12743.2	12390.6	12013.2
25°	13213.3	13170.0	13207.2	13021.6	13046.3	13139.1	13287.6	13664.9	13553.6	13163.8	12291.6
27.5°	13999.0	13912.4	13881.4	13813.4	13788.6	14036.1	14209.3	14611.4	14531.0	13961.8	12786.5
30°	14803.1	14747.5	14778.4	14500.0	14599.0	15124.8	15174.3	15724.9	15687.7	14685.6	13337.1
32.5°	15359.9	15390.8	15446.5	15291.8	15731.0	16151.7	16318.7	16943.5	16974.4	15929.0	14401.1
35°	16256.9	16151.7	16182.6	16362.0	16566.2	17333.2	17605.4	18019.9	18279.7	17234.2	15421.7
37.5°	16819.8	16931.1	16801.2	17085.8	17617.8	18539.5	18786.9	19213.8	19486.0	18520.9	16813.6
40°	17698.2	17518.8	17611.6	17815.7	18360.1	19560.2	19492.1	19931.4	20018.0	19615.9	18112.7
42.5°	18644.7	18558.1	18428.2	18892.1	19349.9	20222.1	20358.2	20154.0	20593.3	20686.0	19968.5
45°	19776.7	19881.9	19900.4	19912.8	20314.9	21075.8	20890.2	20710.8	21218.0	21892.3	21119.1
47.5°	20828.3	20494.3	20735.5	21069.6	21638.7	21644.9	21861.4	21434.6	21972.7	22572.8	22158.3
50°	21180.9	21020.1	21341.8	21972.7	22851.2	22943.9	22968.7	22362.5	22640.8	23117.2	22517.1
52.5°	21044.8	20989.2	21811.9	22789.3	24076.0	24546.1	24669.8	23921.3	24076.0	23859.5	23308.9
55°	20395.3	20562.3	21391.3	23383.2	25356.5	26810.2	27045.3	26098.8	25115.2	25282.3	24676.0
56°	19504.5	19213.8	20141.7	22708.9	25300.8	27546.3	27738.1	26556.6	25888.5	25672.0	24663.7
57.5°	16547.6	16170.3	17388.9	20432.4	23896.6	27268.0	27410.3	26748.3	25758.6	25319.4	22863.5
60°	9687.3	9872.9	11419.4	14091.8	18434.3	22356.3	22832.6	23315.1	22653.2	20686.0	17017.7
62.5°	4676.6	4559.1	5666.4	8078.9	11233.8	14271.1	14128.9	15483.6	16225.9	14698.0	10745.1
65°	2449.7	2437.3	3093.0	4410.6	6173.6	7497.5	7627.4	8357.3	9378.0	7571.7	5456.1
67.5°	1800.1	1849.6	2177.5	3099.2	3971.4	4051.8	4033.3	4398.3	4497.2	3804.4	3352.8
70°	1410.4	1435.2	1676.4	2356.9	2956.9	2647.6	2591.9	2635.2	2926.0	3049.7	2901.2
72.5°	1020.7	1045.4	1249.6	1589.8	1849.6	1806.3	1843.4	2084.7	2443.5	2573.4	2418.7
75°	680.5	699.0	810.4	971.2	1094.9	1181.5	1249.6	1527.9	1862.0	1936.2	1862.0
77.5°	470.1	488.7	562.9	686.6	699.0	754.7	779.4	909.3	1113.5	1206.3	1156.8
80°	266.0	266.0	303.1	352.6	433.0	507.3	519.6	624.8	717.6	779.4	791.8
82.5°	123.7	129.9	160.8	216.5	284.6	352.6	365.0	433.0	501.1	562.9	581.5
85°	61.9	68.0	92.8	129.9	173.2	210.3	204.1	210.3	222.7	210.3	216.5
87.5°	18.6	18.6	24.7	30.9	24.7	30.9	30.9	37.1	43.3	49.5	55.7
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°	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0
2.5°	9798.7	9817.2	9693.5	9811.0	9767.7	9761.5	9848.1	9835.8	9866.7	9854.3	9780.1
5°	9804.8	9761.5	9891.4	9773.9	9829.6	9947.1	9866.7	10052.3	9959.5	10021.4	9885.3
7.5°	9996.6	10009.0	9984.2	10033.7	10009.0	10064.7	10021.4	10064.7	9990.4	9996.6	10120.3
10°	10163.6	10126.5	10169.8	10108.0	10151.3	10132.7	10033.7	10002.8	10027.5	9996.6	10077.0
12.5°	10472.9	10404.9	10374.0	10299.7	10250.2	10064.7	9910.0	9823.4	9940.9	9959.5	9922.4
15°	10788.4	10794.6	10652.3	10485.3	10176.0	9897.6	9934.7	9965.7	9965.7	10015.2	9922.4
17.5°	10986.4	10986.4	10856.5	10522.4	10206.9	10046.1	10009.0	9910.0	9823.4	9811.0	9804.8
20°	11332.8	11227.6	10930.7	10516.2	10194.6	10120.3	9842.0	9606.9	9427.5	9365.6	9359.4
22.5°	11728.7	11462.7	11048.2	10528.6	10176.0	10070.8	9551.2	9198.6	8876.9	8740.8	8759.4
25°	12093.7	11666.8	11116.3	10472.9	10108.0	9600.7	9019.2	8530.5	8196.5	8085.1	8029.5
27.5°	12347.3	11883.3	11116.3	10522.4	9854.3	9074.9	8481.0	7856.2	7565.5	7491.3	7503.6
30°	12687.5	12155.5	11308.0	10417.3	9347.1	8394.4	7683.0	7274.8	7101.5	7039.7	7083.0
32.5°	13485.5	12866.9	11574.0	10163.6	8747.0	7714.0	7138.7	6909.8	6656.2	6532.4	6489.1
35°	14351.6	13541.2	11833.9	9736.8	8072.8	7095.4	6736.6	6526.3	6223.1	6087.0	6111.8
37.5°	15576.4	14407.2	11852.4	9031.6	7342.8	6748.9	6421.1	6093.2	5845.8	5635.5	5573.6
40°	17228.1	15588.8	11809.1	8289.3	6755.1	6340.7	6099.4	5691.1	5412.8	5264.3	5295.2
42.5°	18681.8	16974.4	11629.7	7448.0	6223.1	6062.3	5790.1	5388.0	5115.8	4961.2	4948.8
45°	19906.6	17995.1	11289.5	6730.4	5777.7	5753.0	5437.5	5128.2	4911.7	4769.4	4831.3
47.5°	21038.7	18817.9	10776.0	6012.8	5369.5	5419.0	5115.8	4924.1	4788.0	4658.1	4651.9
50°	21446.9	18805.5	10324.5	5419.0	5041.6	5016.9	5004.5	4800.4	4658.1	4546.7	4596.2
52.5°	22127.4	19015.8	9835.8	5010.7	4744.7	4750.9	4794.2	4645.7	4484.9	4416.8	4478.7
55°	23104.8	19046.8	8759.4	4534.4	4497.2	4540.5	4540.5	4441.6	4305.5	4249.8	4218.9
56°	22306.8	18125.0	7856.2	4410.6	4373.5	4373.5	4491.0	4379.7	4212.7	4169.4	4132.3
57.5°	20574.7	15879.5	6575.7	4262.2	4206.5	4293.1	4355.0	4237.4	4082.8	4020.9	4058.0
60°	14190.7	10745.1	4942.6	3940.5	3940.5	4082.8	4132.3	3959.1	3891.0	3884.8	3835.3
62.5°	8283.1	6260.3	3866.3	3649.8	3662.1	3779.7	3816.8	3717.8	3631.2	3736.4	3785.8
65°	4392.1	3736.4	3315.7	3340.5	3346.6	3439.4	3600.3	3594.1	3587.9	3618.8	3625.0
67.5°	3179.6	3105.4	3012.6	2987.8	3000.2	3068.3	3229.1	3352.8	3346.6	3272.4	3216.7
70°	2833.2	2728.0	2672.4	2678.5	2629.1	2709.5	2839.4	2919.8	2777.5	2690.9	2653.8
72.5°	2356.9	2325.9	2288.8	2295.0	2196.0	2177.5	2029.0	2029.0	1991.9	1967.2	2010.5
75°	1800.1	1787.8	1806.3	1775.4	1670.2	1558.9	1472.3	1391.9	1268.1	1218.6	1193.9
77.5°	1138.2	1175.3	1218.6	1150.6	1107.3	1026.9	940.3	859.9	760.9	705.2	705.2
80°	773.3	804.2	835.1	822.7	773.3	699.0	631.0	544.4	476.3	433.0	426.8
82.5°	587.7	612.4	655.7	606.2	556.7	494.9	439.2	377.3	315.5	266.0	266.0
85°	210.3	241.3	266.0	290.7	309.3	315.5	272.2	222.7	179.4	142.3	136.1
87.5°	55.7	61.9	68.0	61.9	61.9	61.9	68.0	61.9	55.7	43.3	43.3
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)