

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: P533245

Luminaire Tested: **GALN-SA8C-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33653 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 429
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

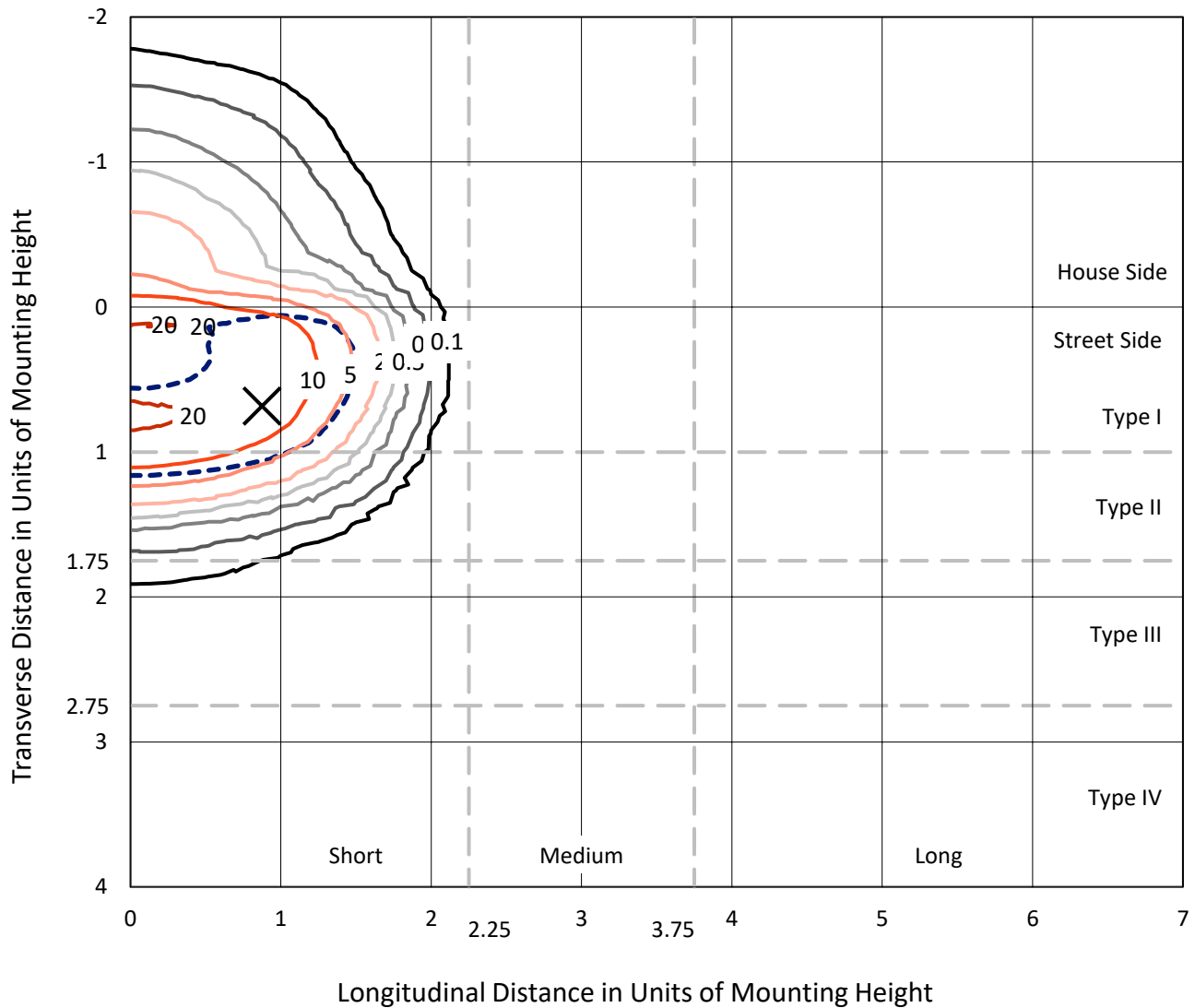


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

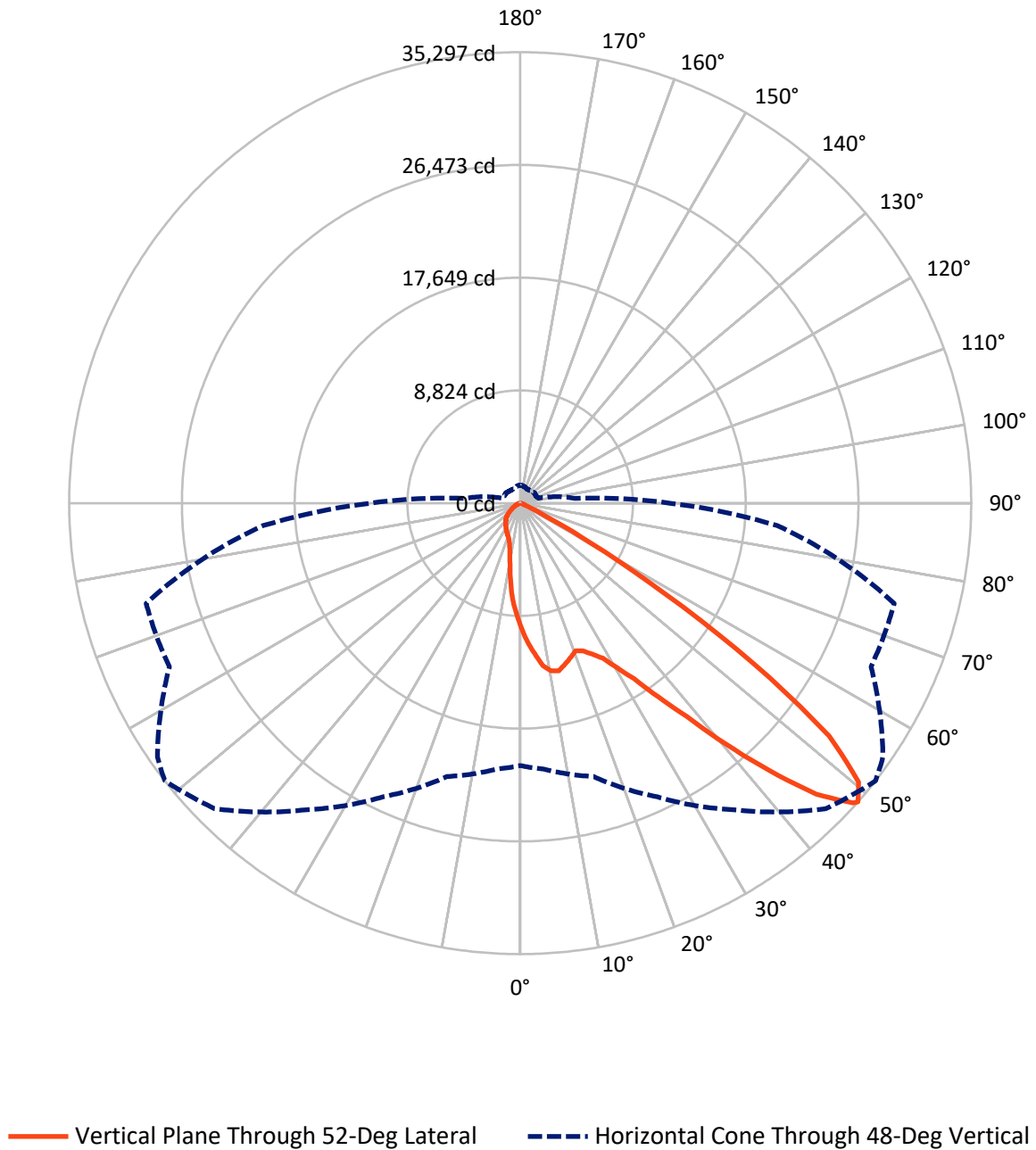


Based on 25 foot mounting height. Maximum calculated value = 21.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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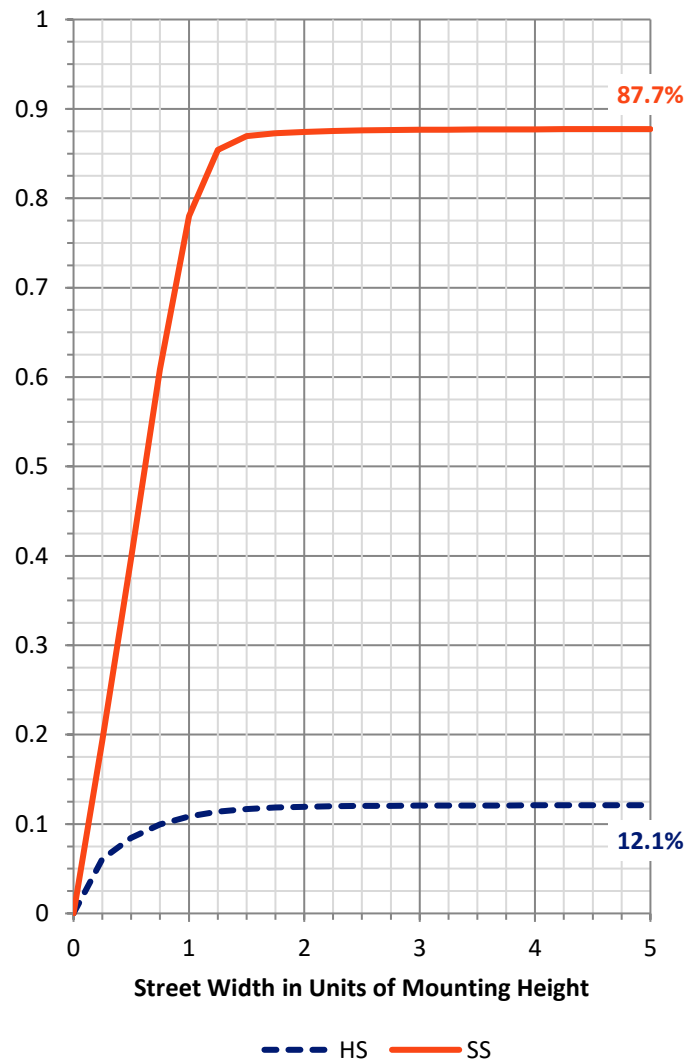
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4097.5	0.0	4097.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	29555.5	0.0	29555.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	33653.0	0.0	33653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	889.5	2.6
10°-20°	2324.6	6.9
20°-30°	3969.1	11.8
30°-40°	7309.1	21.7
40°-50°	11351.0	33.7
50°-60°	6831.4	20.3
60°-70°	790.1	2.3
70°-80°	152.9	0.5
80°-90°	35.4	0.1
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°	33653.0	100.0
0°-180°	33653.0	100.0

Coefficient of Utilization



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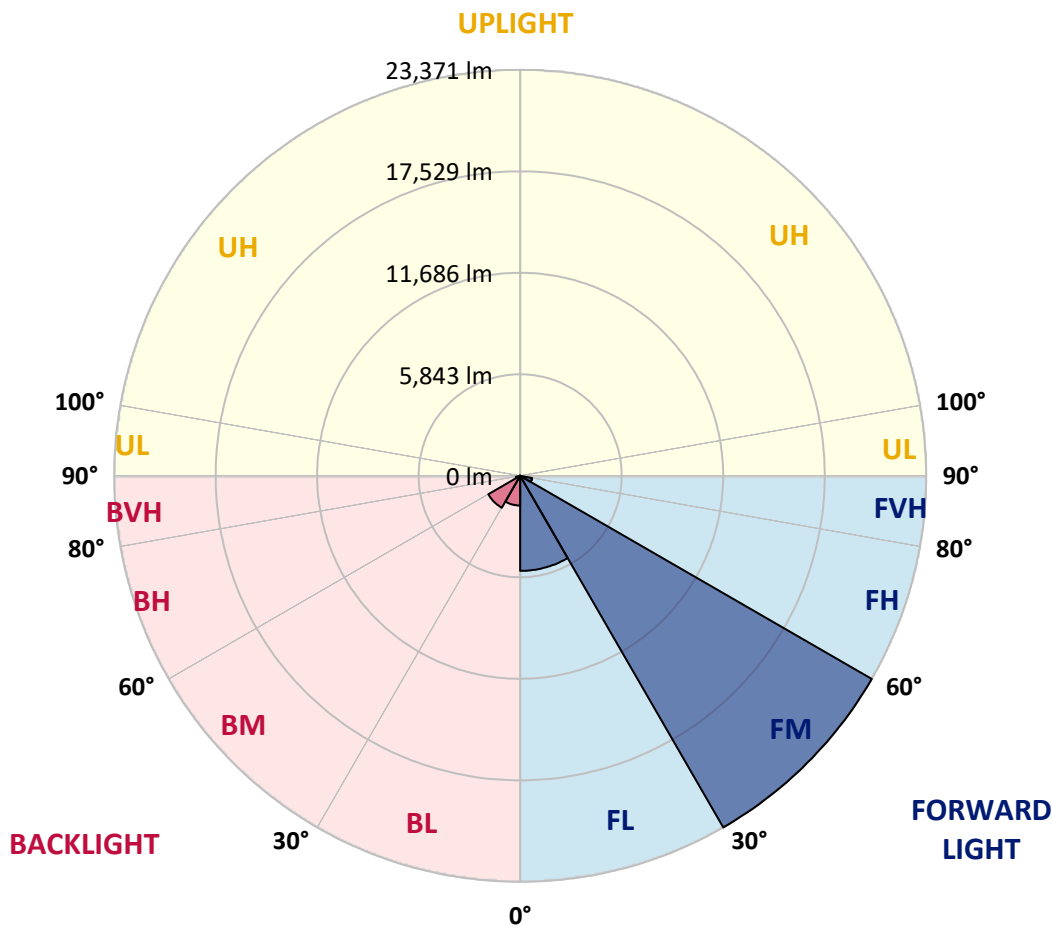
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5471.5	16.3			
FM	(30°-60°)	23371.3	69.4			
FH	(60°-80°)	695.8	2.1			G1/1800
FVH	(80°-90°)	16.8	0.0			G1/100
BL	(0°-30°)	1711.7	5.1	B3/2500		
BM	(30°-60°)	2120.0	6.3	B2/2500		
BH	(60°-80°)	247.3	0.7	B1/500		G1/500
BVH	(80°-90°)	18.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9718.4	9718.4	9718.4	9718.4	9718.4	9718.4	9718.4	9718.4	9718.4	9718.4	9718.4
2.5°	11778.9	11509.1	11533.6	11357.0	11253.9	11087.2	10861.5	10817.3	10572.0	10238.4	9899.9
5°	12838.5	12774.8	12858.2	12603.0	12612.9	12338.1	11808.3	11818.1	11253.9	10709.4	10184.5
7.5°	12907.2	12760.0	12843.4	13069.1	13201.6	13152.5	12853.2	12593.2	12058.5	11258.9	10493.5
10°	11558.1	11837.7	11926.0	12298.9	12828.7	13388.0	13353.6	13368.4	12921.9	11877.0	10758.5
12.5°	10748.6	10562.2	10861.5	11087.2	11886.8	12971.0	13466.5	13574.4	13608.7	12475.5	11023.4
15°	10380.7	10380.7	10429.8	10493.5	11072.4	12073.2	13083.8	13397.8	14138.6	13260.4	11440.4
17.5°	10611.3	10601.5	10670.2	10537.7	10753.6	11523.8	12730.6	13088.7	14732.2	14030.6	11769.1
20°	11312.8	11347.2	11303.0	10920.4	10935.1	11514.0	12338.1	12902.3	15134.5	14697.8	12205.7
22.5°	12289.1	12308.7	12058.5	11641.5	11518.9	11803.4	12563.8	12995.5	15458.2	15497.5	12338.1
25°	13417.4	13338.9	13289.9	12701.2	12328.3	12573.6	13074.0	13324.2	15659.4	16184.3	12715.9
27.5°	14982.4	14825.4	14526.1	14001.2	13726.5	13378.2	13736.3	14148.4	16233.4	17145.8	13128.0
30°	17293.0	17155.6	16571.9	15894.9	15173.7	14830.3	14943.1	15168.8	17268.5	18259.5	13672.5
32.5°	20771.2	20481.8	19638.0	18347.8	17366.6	16419.8	16390.3	16630.7	18195.7	19799.9	14320.1
35°	24602.7	24514.4	23273.2	21943.7	20045.2	18583.2	18607.8	18735.3	19971.6	21821.1	15168.8
37.5°	27148.8	27634.5	26844.6	25417.0	23822.7	21732.8	21202.9	21247.1	22409.8	24215.1	16699.4
40°	29116.0	28703.9	28797.2	28463.6	27374.5	25951.8	24779.3	24548.7	25230.6	26864.3	18220.2
42.5°	28257.5	28277.1	28851.1	29641.0	29910.8	29807.8	28610.7	28174.1	27644.3	29032.6	19667.4
45°	25834.0	26339.3	27085.0	29174.9	31009.7	32731.6	32496.1	31770.1	29312.3	30749.7	20501.4
47.5°	21968.3	21948.6	23170.2	25888.0	29964.7	33997.3	35066.8	34556.6	30494.6	30558.3	20329.7
48°	20540.7	20893.9	22154.7	25353.3	29302.5	33810.9	35297.4	34654.7	30293.4	30303.2	20182.5
50°	15183.5	15119.7	16689.6	20614.3	26172.5	31770.1	34326.0	34826.4	30288.5	29013.0	19152.3
52.5°	8021.0	8295.7	9438.8	12961.2	18504.7	26000.8	30278.7	31058.7	29219.1	26903.5	17670.8
55°	3409.5	3080.9	3959.0	5852.6	10410.1	17371.5	22213.5	23950.2	24705.7	23807.9	15458.2
57.5°	1216.6	1329.5	1530.6	2202.7	4376.0	9507.5	13245.7	14594.8	17116.4	17469.6	10532.8
60°	780.0	794.7	858.5	1010.6	1643.4	3664.6	6284.4	7358.7	8501.8	8776.5	4915.6
62.5°	603.4	608.3	637.8	662.3	780.0	1422.7	2359.7	2796.3	2904.2	2497.1	1290.2
65°	505.3	510.2	520.0	520.0	554.4	667.2	824.2	907.6	883.0	873.2	731.0
67.5°	387.6	397.4	417.0	417.0	436.6	407.2	456.2	485.7	549.5	667.2	623.0
70°	304.2	309.1	323.8	333.6	333.6	294.3	328.7	358.1	402.3	495.5	490.6
72.5°	235.5	245.3	255.1	255.1	240.4	201.1	235.5	260.0	289.4	343.4	333.6
75°	181.5	181.5	186.4	152.1	117.7	103.0	142.3	171.7	215.9	225.7	186.4
77.5°	49.1	54.0	49.1	44.2	49.1	73.6	93.2	107.9	137.4	137.4	122.6
80°	0.0	4.9	14.7	29.4	49.1	68.7	83.4	93.2	107.9	117.7	112.8
82.5°	0.0	4.9	14.7	29.4	44.2	54.0	73.6	78.5	88.3	103.0	103.0
85°	0.0	4.9	9.8	19.6	29.4	34.3	34.3	29.4	29.4	24.5	19.6
87.5°	0.0	0.0	4.9	9.8	9.8	14.7	14.7	14.7	14.7	14.7	14.7
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°	9718.4	9718.4	9718.4	9718.4	9718.4	9718.4	9718.4	9718.4	9718.4	9718.4	9718.4
2.5°	9767.5	9615.4	9384.8	9021.8	8673.5	8447.8	8232.0	7991.6	7859.1	7849.3	7775.7
5°	9885.2	9541.8	8992.4	8369.3	7702.1	7128.2	6549.3	6171.5	5833.0	5646.6	5612.3
7.5°	9949.0	9502.6	8614.6	7569.7	6431.5	5494.5	4846.9	4371.1	4184.7	4047.3	4042.4
10°	10081.5	9433.9	8050.4	6510.0	5102.1	4155.2	3708.8	3492.9	3389.9	3350.7	3291.8
12.5°	10179.6	9306.3	7471.6	5420.9	4032.6	3443.9	3247.7	3198.6	3203.5	3223.1	3198.6
15°	10316.9	9193.5	6691.5	4449.6	3385.0	3100.5	3100.5	3110.3	3179.0	3188.8	3183.9
17.5°	10307.1	8972.7	5887.0	3664.6	2992.5	2953.3	2968.0	3061.2	3105.4	3120.1	3085.8
20°	10424.9	8766.7	5057.9	3129.9	2771.8	2830.7	2928.8	2953.3	3007.3	3017.1	2977.8
22.5°	10390.5	8251.6	4287.7	2708.0	2605.0	2717.8	2815.9	2845.4	2830.7	2801.2	2796.3
25°	10326.7	7810.1	3581.2	2428.4	2482.3	2605.0	2698.2	2644.2	2614.8	2619.7	2624.6
27.5°	10213.9	7250.8	2997.5	2232.1	2315.5	2497.1	2492.2	2472.5	2502.0	2477.4	2502.0
30°	10194.3	6691.5	2516.7	2055.5	2192.9	2325.4	2335.2	2369.5	2403.9	2359.7	2403.9
32.5°	10223.7	6078.3	2173.3	1947.6	2119.3	2124.2	2232.1	2266.5	2242.0	2143.8	2153.7
35°	10449.4	5607.4	1923.1	1888.7	2001.6	2006.5	2109.5	2065.3	1957.4	1898.6	1932.9
37.5°	10925.3	5214.9	1805.3	1834.8	1844.6	1908.4	1913.3	1825.0	1834.8	1829.9	1849.5
40°	11533.6	4915.6	1721.9	1785.7	1775.9	1820.1	1643.4	1692.5	1736.7	1751.4	1761.2
42.5°	11950.6	4699.8	1668.0	1707.2	1687.6	1609.1	1511.0	1560.1	1594.4	1648.4	1658.2
45°	12137.0	4528.1	1604.2	1569.9	1569.9	1427.6	1388.3	1398.2	1476.7	1535.5	1525.7
47.5°	11832.8	4361.3	1491.4	1388.3	1422.7	1304.9	1260.8	1260.8	1344.2	1417.8	1403.1
48°	11715.1	4292.6	1496.3	1349.1	1373.6	1285.3	1241.2	1231.4	1324.6	1393.3	1393.3
50°	11131.3	4037.5	1368.7	1241.2	1192.1	1182.3	1152.9	1162.7	1221.5	1285.3	1285.3
52.5°	9993.2	3488.0	1157.8	1064.6	976.3	1035.1	1049.8	1030.2	1059.7	1118.5	1113.6
55°	8339.9	2678.6	927.2	883.0	814.4	878.1	907.6	883.0	853.6	897.8	897.8
57.5°	5342.4	1442.3	740.8	750.6	681.9	745.7	770.2	711.3	657.4	691.7	686.8
60°	2408.8	863.4	608.3	593.6	549.5	623.0	662.3	593.6	520.0	544.5	569.1
62.5°	902.7	613.2	461.1	451.3	441.5	510.2	529.8	475.9	402.3	417.0	421.9
65°	662.3	539.6	367.9	333.6	353.2	402.3	392.5	338.5	289.4	289.4	299.3
67.5°	564.2	471.0	299.3	260.0	260.0	264.9	245.3	215.9	201.1	211.0	220.8
70°	441.5	372.8	235.5	201.1	181.5	161.9	142.3	137.4	122.6	137.4	132.5
72.5°	284.5	250.2	181.5	152.1	137.4	112.8	93.2	88.3	73.6	68.7	68.7
75°	152.1	152.1	142.3	122.6	107.9	88.3	73.6	58.9	39.2	29.4	29.4
77.5°	107.9	117.7	127.6	117.7	98.1	73.6	58.9	39.2	19.6	9.8	9.8
80°	103.0	117.7	127.6	112.8	98.1	73.6	54.0	29.4	14.7	4.9	4.9
82.5°	93.2	107.9	117.7	103.0	88.3	63.8	49.1	29.4	14.7	4.9	4.9
85°	19.6	24.5	29.4	29.4	34.3	44.2	34.3	24.5	9.8	4.9	4.9
87.5°	14.7	14.7	14.7	14.7	14.7	14.7	9.8	9.8	4.9	4.9	4.9
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)