

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: P456463

Luminaire Tested: **GALN-SA7D-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44664 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

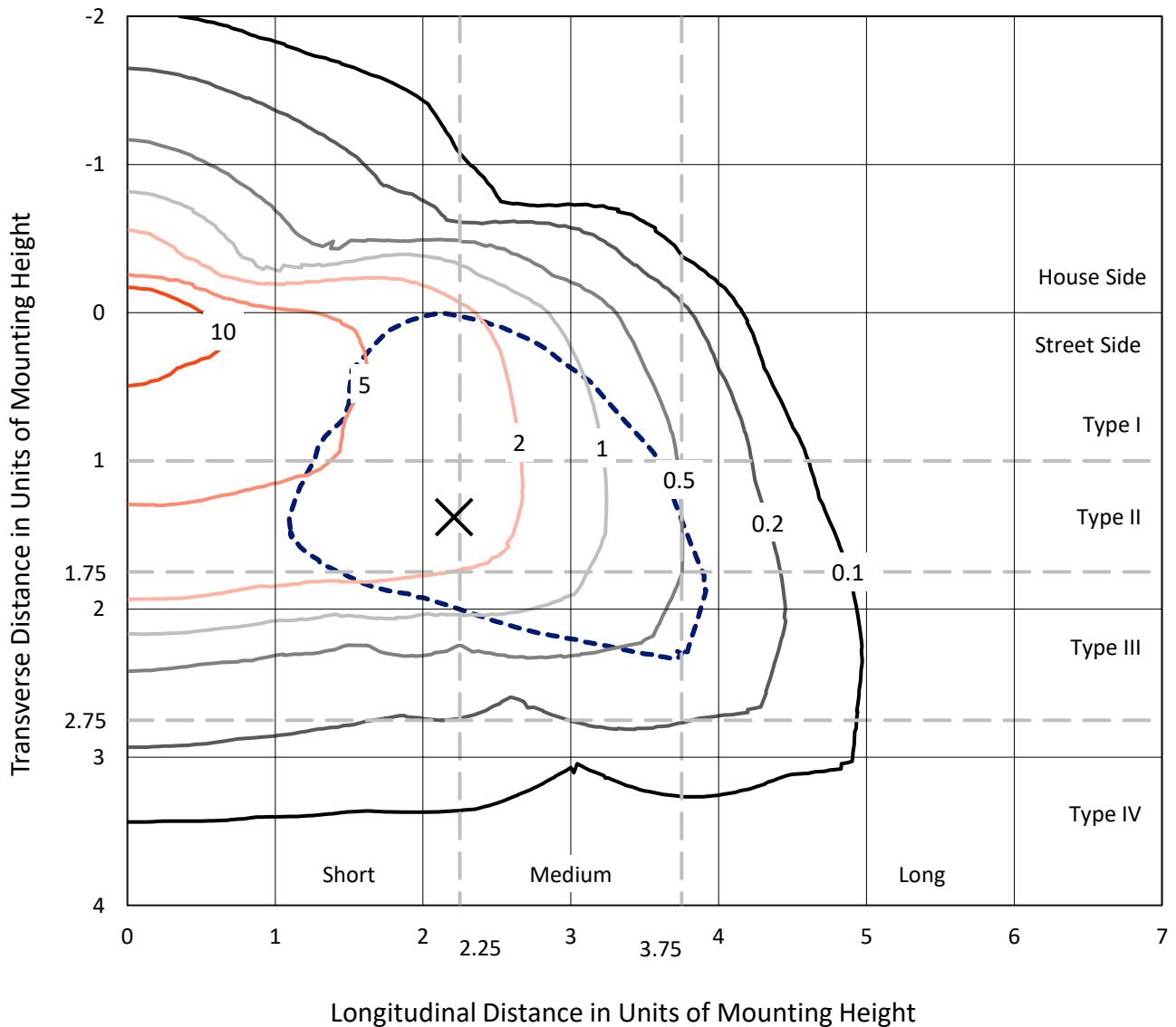
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

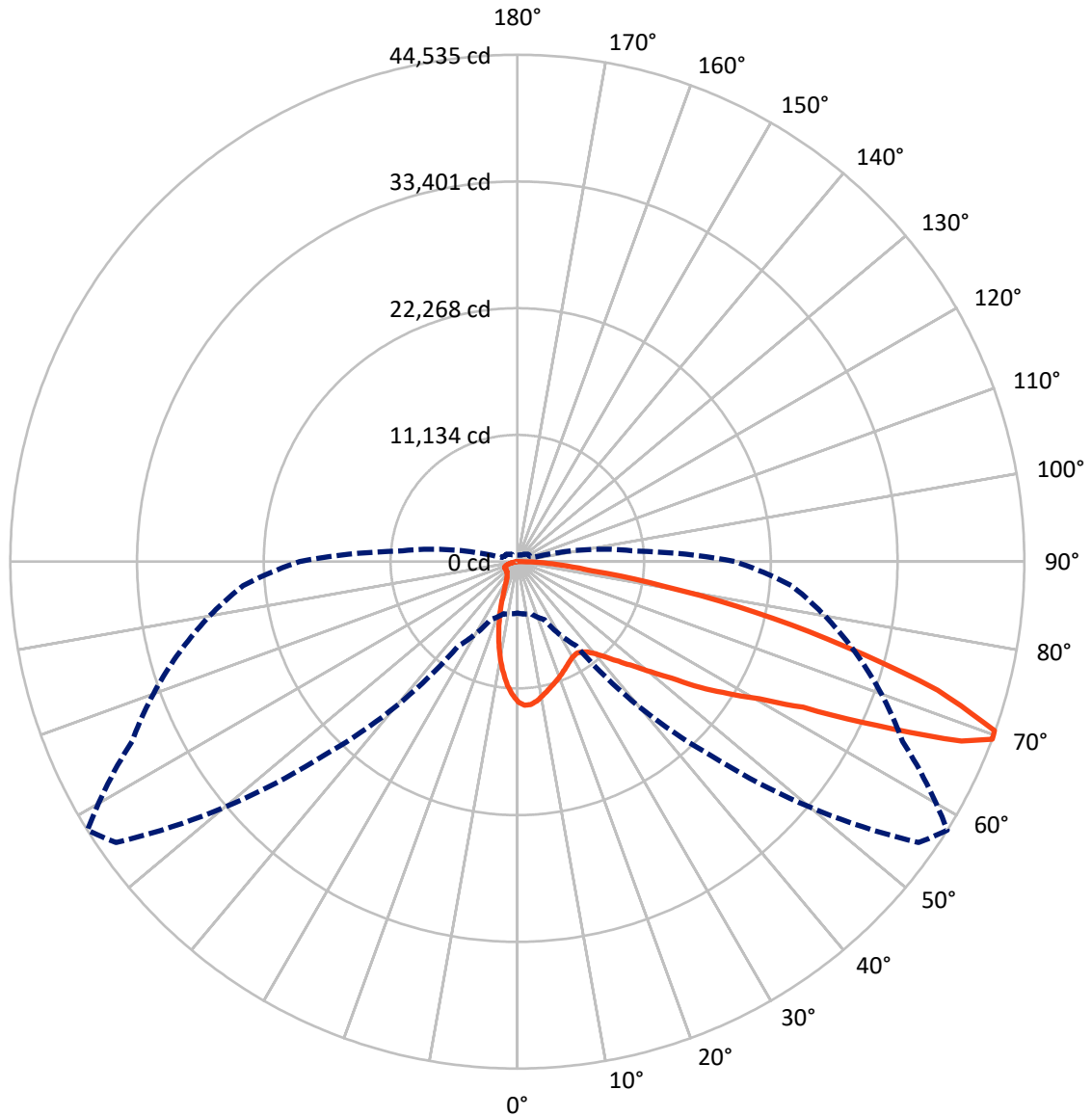
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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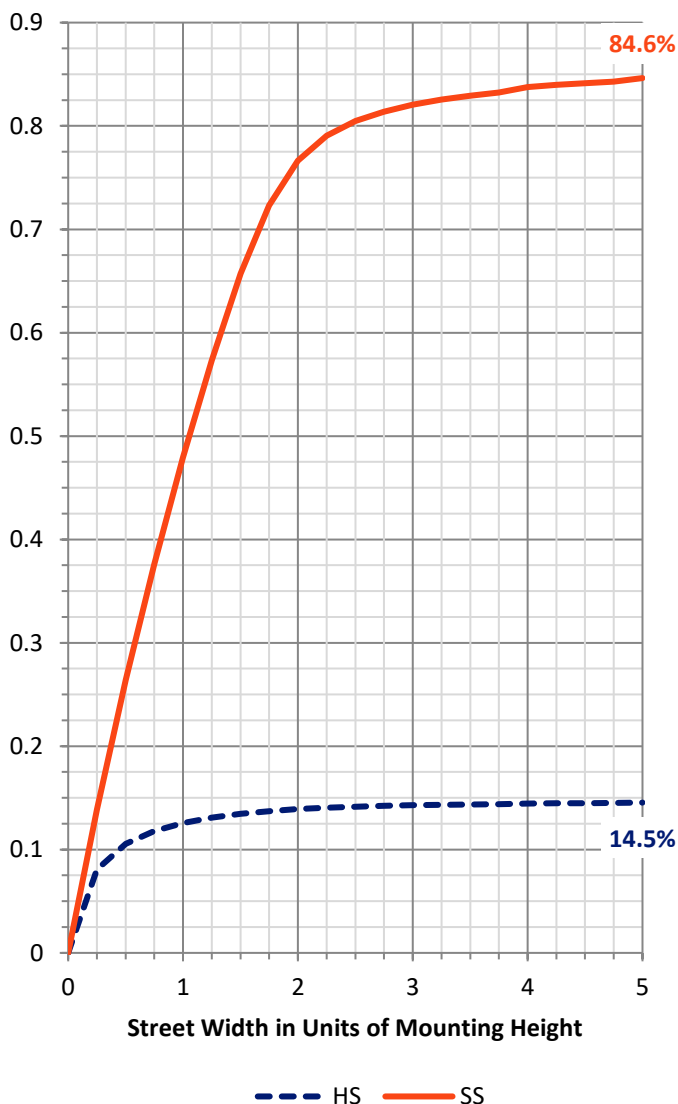
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6545.5	0.0	6545.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	38118.5	0.0	38118.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	44664.0	0.0	44664.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1048.2	2.3
10°-20°	2301.6	5.2
20°-30°	2973.7	6.7
30°-40°	3862.3	8.6
40°-50°	5615.2	12.6
50°-60°	8960.1	20.1
60°-70°	11969.5	26.8
70°-80°	6899.9	15.4
80°-90°	1033.5	2.3
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°	44664.0	100.0
0°-180°	44664.0	100.0



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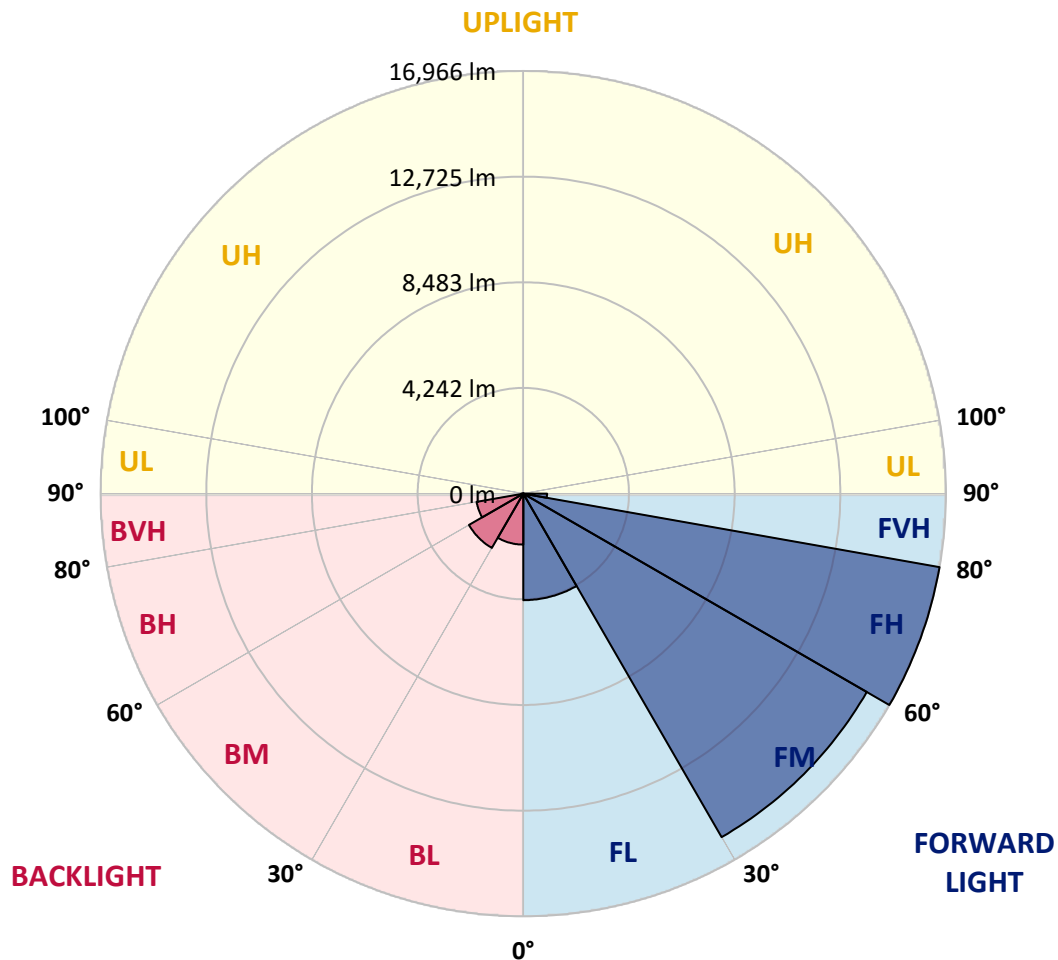
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4277.7	9.6			
FM	(30°-60°)	15920.4	35.6			
FH	(60°-80°)	16966.1	38.0			G5
FVH	(80°-90°)	954.3	2.1			G5
BL	(0°-30°)	2045.9	4.6	B3/2500		
BM	(30°-60°)	2517.2	5.6	B3/5000		
BH	(60°-80°)	1903.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	79.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12342.5	12342.5	12342.5	12342.5	12342.5	12342.5	12342.5	12342.5	12342.5	12342.5	12342.5
2.5°	12800.8	12835.7	12825.8	12813.3	12793.4	12738.6	12648.9	12634.0	12576.7	12454.6	12302.7
5°	12604.1	12634.0	12636.4	12653.9	12678.8	12668.8	12604.1	12596.6	12511.9	12347.5	12093.4
7.5°	11929.0	11968.9	12056.1	12153.2	12240.4	12322.6	12342.5	12355.0	12302.7	12113.3	11774.6
10°	11169.3	11209.1	11249.0	11393.5	11607.7	11811.9	11981.3	12003.7	12016.2	11841.8	11428.3
12.5°	10327.4	10409.6	10494.3	10708.5	10994.9	11316.3	11615.2	11662.5	11747.2	11615.2	11129.4
15°	9612.5	9697.2	9819.2	10011.0	10357.3	10820.6	11241.5	11318.7	11485.6	11418.4	10850.5
17.5°	9116.8	9146.7	9231.4	9450.6	9824.2	10312.4	10875.4	11029.8	11296.3	11278.9	10611.3
20°	8725.7	8763.1	8815.4	8949.9	9338.5	9854.1	10534.1	10733.4	11094.6	11154.3	10374.7
22.5°	8561.3	8588.7	8581.2	8653.5	8917.5	9435.6	10187.9	10424.5	10915.2	11069.7	10155.5
25°	8571.3	8596.2	8558.8	8541.4	8698.3	9067.0	9826.7	10128.1	10770.7	11012.4	9956.2
27.5°	8738.2	8755.6	8685.8	8616.1	8628.6	8837.8	9527.8	9861.6	10648.7	11037.3	9789.3
30°	8962.3	8994.7	8949.9	8865.2	8773.0	8783.0	9336.0	9664.8	10591.4	11124.5	9709.6
32.5°	9251.3	9281.2	9261.2	9194.0	9074.4	8942.4	9288.6	9592.5	10596.4	11301.3	9692.2
35°	9555.2	9615.0	9647.3	9642.4	9545.2	9316.0	9475.5	9727.0	10715.9	11597.7	9794.3
37.5°	9898.9	9948.7	10088.2	10177.9	10088.2	9821.7	9896.4	10070.8	10980.0	12026.2	10018.5
40°	10232.7	10307.4	10511.7	10790.7	10755.8	10521.7	10539.1	10653.7	11445.8	12663.8	10456.9
42.5°	10581.4	10671.1	11027.3	11440.8	11523.0	11341.2	11388.5	11490.6	12108.4	13548.1	11209.1
45°	11029.8	11136.9	11575.3	12090.9	12414.8	12302.7	12437.2	12487.0	12995.1	14698.9	12200.5
47.5°	11607.7	11732.2	12272.8	12915.4	13373.8	13475.9	13710.0	13680.1	14093.6	16061.5	13485.8
50°	12581.6	12651.4	13162.0	13817.1	14447.3	14908.2	15162.2	15209.6	15456.2	17386.6	14923.1
52.5°	13739.9	13802.2	14170.9	14743.8	15533.4	16509.8	17137.5	16983.1	17042.9	19000.7	16604.5
55°	15042.7	15147.3	15381.4	15762.5	16786.3	18223.6	19484.0	19521.3	18858.8	20545.1	18216.1
57.5°	16051.5	16228.4	16629.4	17172.4	18470.2	20129.1	21823.0	21847.9	21001.0	22194.1	19994.6
60°	15543.3	15752.6	16669.2	17991.9	20679.6	23454.5	24617.8	24475.8	23085.9	24072.3	22164.2
62.5°	13351.3	13388.7	14721.3	16788.8	21359.6	27903.3	28777.6	28177.3	25868.2	26453.6	24368.7
65°	8641.0	8885.1	9941.3	12838.2	19125.3	30371.8	36066.0	34678.6	29769.0	29156.2	26214.5
67.5°	5455.1	5392.8	5831.2	7330.8	13154.6	28197.2	42285.9	42066.7	34870.4	30862.5	25773.6
69°	4523.5	4593.3	4742.7	5619.5	9052.0	24074.8	43020.7	44535.2	37343.9	30728.0	24171.9
70°	4102.5	4134.9	4291.9	4981.8	6984.5	20164.0	41815.1	44467.9	38315.4	30165.1	23011.1
72.5°	3255.6	3253.1	3522.2	4144.9	5221.0	11510.5	34334.9	38606.8	37229.3	27544.6	19013.2
75°	2473.5	2513.3	2809.8	3507.2	4810.0	6289.6	23960.2	29731.6	29734.1	21755.7	11864.3
77.5°	1783.5	1808.4	2154.6	2944.3	4531.0	5098.9	15959.3	21324.8	20046.9	9968.7	3728.9
80°	1168.2	1183.2	1447.2	2331.5	4085.1	4810.0	9463.0	13052.4	9455.5	2645.4	1233.0
82.5°	640.2	714.9	884.3	1509.5	3278.1	4443.8	5751.5	6605.9	3547.1	1178.2	642.7
85°	321.3	341.3	498.2	881.8	2142.2	3676.6	4005.4	3788.7	1830.8	585.4	333.8
87.5°	94.7	119.6	206.7	341.3	869.3	1915.5	2229.4	2000.2	704.9	211.7	69.7
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°	12342.5	12342.5	12342.5	12342.5	12342.5	12342.5	12342.5	12342.5	12342.5	12342.5	12342.5
2.5°	12240.4	12195.6	11996.3	11816.9	11652.5	11478.2	11331.2	11201.7	11214.1	11216.6	11084.6
5°	11961.4	11859.3	11480.7	11126.9	10828.0	10449.4	10125.6	9916.4	9811.7	9672.2	9722.1
7.5°	11582.8	11386.0	10860.4	10272.6	9722.1	9231.4	8698.3	8332.1	8098.0	7871.3	7901.2
10°	11191.7	10875.4	10110.6	9333.5	8621.1	7836.4	7156.4	6573.5	6140.1	5978.2	5871.1
12.5°	10790.7	10374.7	9403.2	8369.5	7385.6	6446.5	5482.5	4857.3	4379.0	4125.0	4157.3
15°	10424.5	9918.8	8665.9	7405.5	6127.7	5009.2	4047.7	3452.4	3118.6	3048.9	3088.7
17.5°	10085.7	9423.2	7975.9	6468.9	4976.9	3756.3	3041.4	2705.1	2570.6	2533.3	2530.8
20°	9737.0	9002.2	7201.3	5467.6	3878.4	2911.9	2495.9	2339.0	2314.1	2329.0	2331.5
22.5°	9383.3	8481.6	6404.2	4473.7	3088.7	2381.3	2182.0	2139.7	2159.6	2194.5	2199.5
25°	9057.0	8023.3	5637.0	3601.9	2466.0	2092.4	1995.2	1995.2	2040.1	2092.4	2094.9
27.5°	8788.0	7579.9	4872.2	2859.6	2065.0	1883.1	1850.8	1868.2	1930.5	1970.3	1972.8
30°	8566.3	7166.4	4149.9	2291.6	1815.9	1716.2	1708.8	1738.7	1783.5	1820.9	1823.4
32.5°	8399.4	6802.7	3474.8	1925.5	1644.0	1589.2	1586.7	1609.1	1634.0	1644.0	1654.0
35°	8334.6	6501.3	2857.1	1693.8	1529.4	1494.6	1494.6	1492.1	1502.0	1507.0	1512.0
37.5°	8386.9	6269.6	2378.8	1544.4	1444.7	1419.8	1404.9	1389.9	1385.0	1385.0	1387.4
40°	8608.6	6147.6	2022.6	1447.2	1385.0	1347.6	1320.2	1302.8	1285.3	1290.3	1295.3
42.5°	9079.4	6170.0	1781.0	1382.5	1332.6	1280.3	1240.5	1220.6	1208.1	1223.0	1220.6
45°	9829.2	6394.2	1626.6	1337.6	1280.3	1213.1	1175.7	1155.8	1155.8	1178.2	1185.7
47.5°	10877.9	6822.6	1544.4	1302.8	1240.5	1160.8	1123.4	1108.5	1113.4	1150.8	1153.3
50°	12158.2	7567.4	1529.4	1285.3	1220.6	1123.4	1081.1	1066.1	1078.6	1118.4	1123.4
52.5°	13570.5	8526.4	1601.7	1287.8	1203.1	1101.0	1046.2	1023.8	1036.2	1068.6	1078.6
55°	15244.4	9727.0	1788.5	1297.8	1178.2	1088.5	1021.3	971.5	986.4	1008.8	1011.3
57.5°	16953.2	11241.5	2117.3	1300.3	1158.3	1066.1	978.9	914.2	914.2	929.1	936.6
60°	19040.6	12890.5	2550.7	1302.8	1160.8	1033.7	921.6	849.4	839.4	846.9	849.4
62.5°	21113.0	14270.5	2622.9	1295.3	1185.7	1001.4	859.4	784.6	767.2	764.7	759.7
65°	22027.2	14013.9	2149.7	1260.4	1213.1	981.4	809.5	722.4	692.5	682.5	682.5
67.5°	20537.6	11854.3	1616.6	1213.1	1195.6	961.5	762.2	670.1	635.2	615.3	615.3
69°	19137.7	10544.1	1452.2	1180.7	1150.8	929.1	732.3	642.7	600.3	577.9	570.4
70°	18056.7	9642.4	1382.5	1153.3	1108.5	891.7	709.9	622.7	575.4	550.5	545.5
72.5°	14410.0	7564.9	1210.6	1048.7	944.1	749.8	630.2	560.5	515.6	488.2	480.7
75°	8304.7	4100.1	1003.8	911.7	759.7	582.9	533.1	488.2	453.3	428.4	421.0
77.5°	2555.7	1584.2	727.3	719.9	558.0	450.9	425.9	408.5	383.6	356.2	351.2
80°	1076.1	807.1	493.2	485.7	371.1	313.9	306.4	303.9	293.9	271.5	264.0
82.5°	590.3	455.8	343.7	298.9	224.2	181.8	189.3	191.8	184.3	161.9	147.0
85°	288.9	249.1	166.9	134.5	102.1	64.8	62.3	74.7	69.7	49.8	54.8
87.5°	57.3	69.7	44.8	19.9	10.0	0.0	0.0	0.0	0.0	0.0	0.0
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)