

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: P455762

Luminaire Tested: **GALN-SA7A-727-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26899 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 215
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

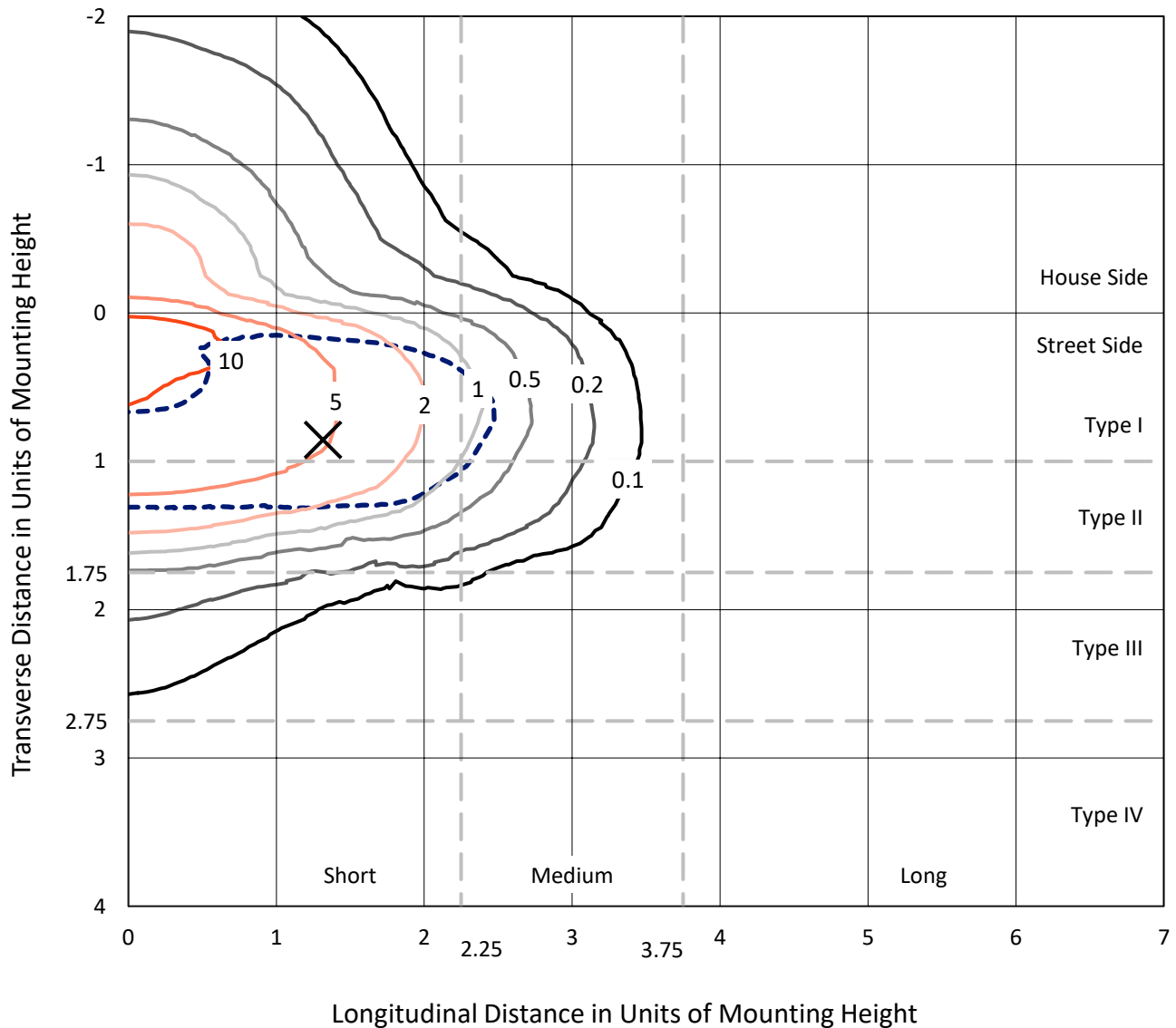


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

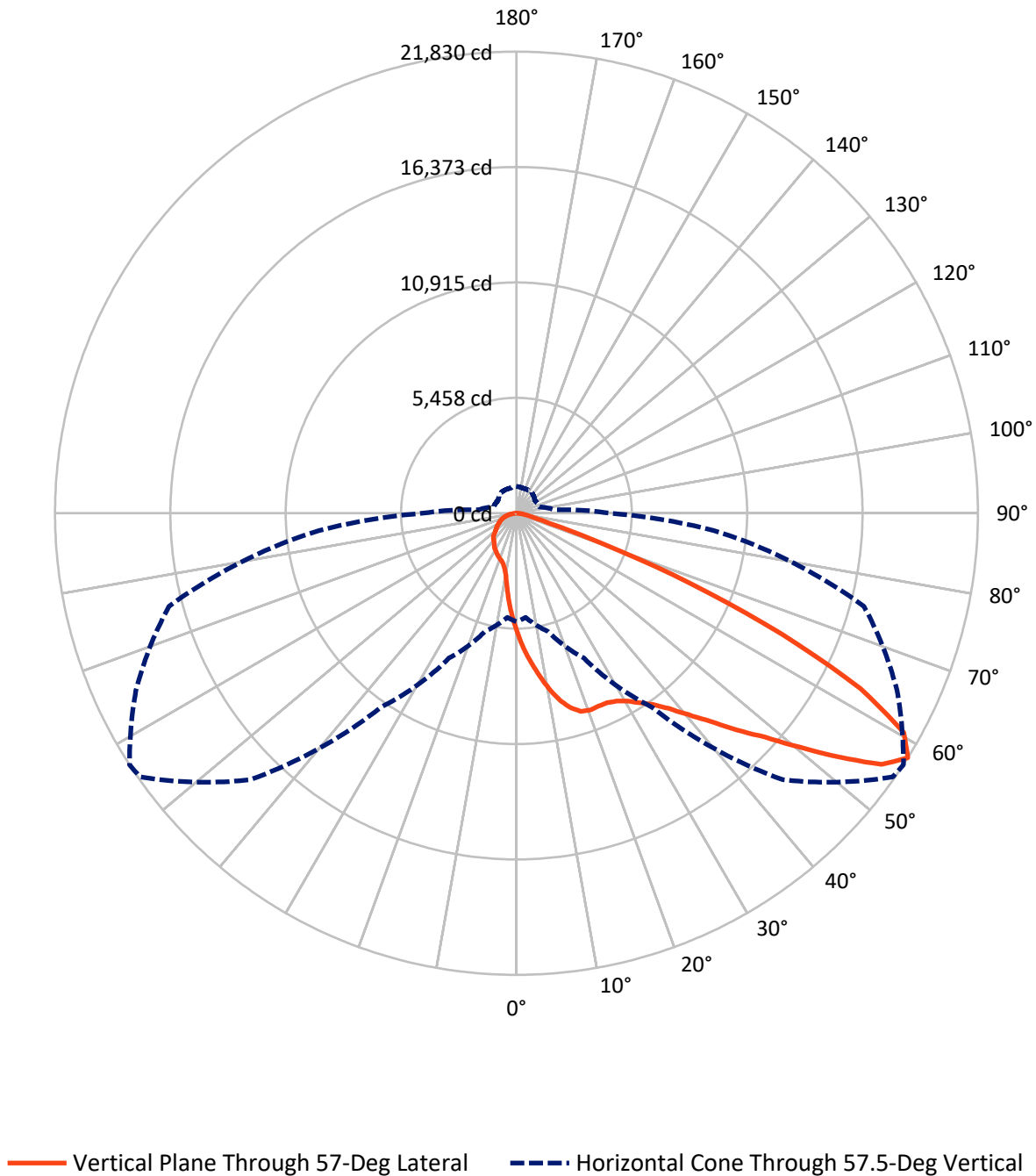


Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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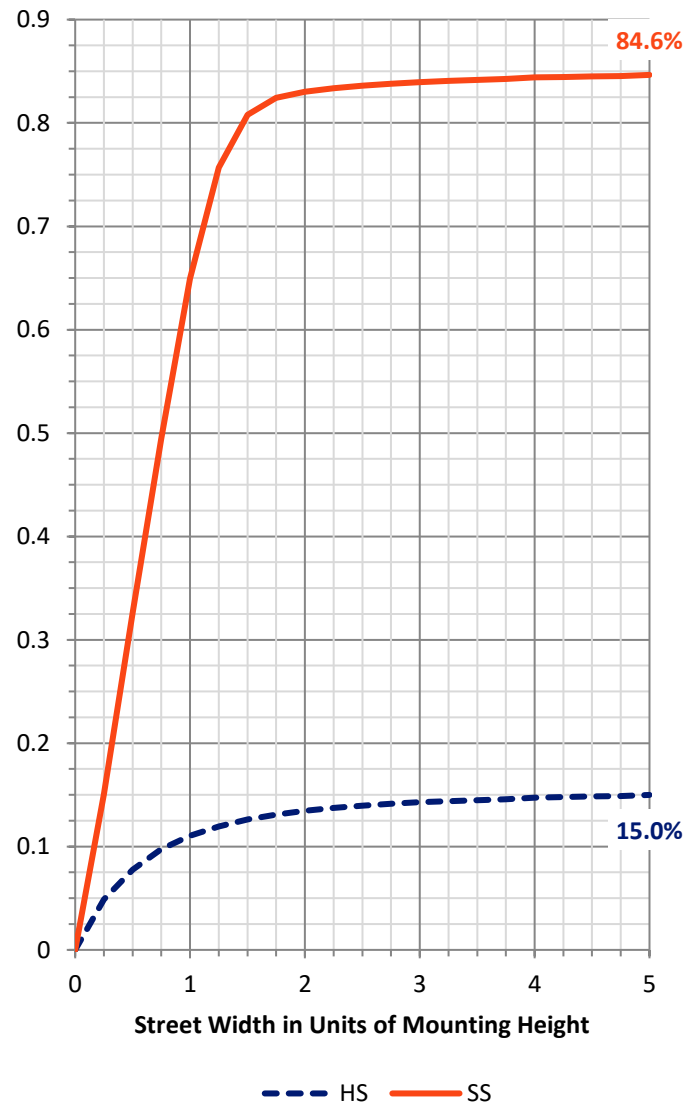
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4090.6	0.0	4090.6
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	22808.4	0.0	22808.4
	% Fixture	84.8	0.0	84.8
Total	Lumens	26899.0	0.0	26899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.1	2.0
10°-20°	1600.6	6.0
20°-30°	2657.9	9.9
30°-40°	4003.6	14.9
40°-50°	6011.0	22.3
50°-60°	6737.5	25.0
60°-70°	3943.1	14.7
70°-80°	1166.4	4.3
80°-90°	235.7	0.9
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°	26899.0	100.0
0°-180°	26899.0	100.0

Coefficient of Utilization



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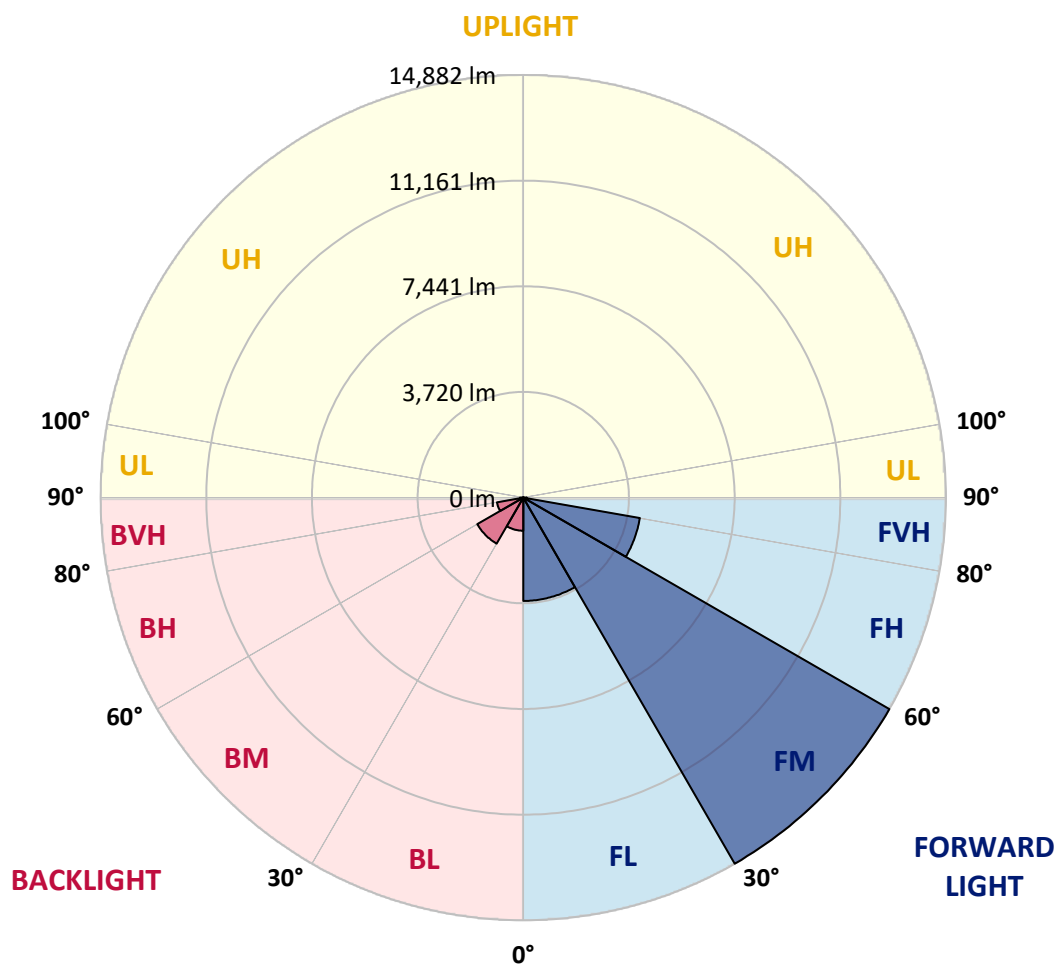
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3636.1	13.5			
FM	(30°-60°)	14881.7	55.3			
FH	(60°-80°)	4168.3	15.5			G2/5000
FVH	(80°-90°)	122.3	0.5			G2/225
BL	(0°-30°)	1165.5	4.3	B3/2500		
BM	(30°-60°)	1870.4	7.0	B2/2500		
BH	(60°-80°)	941.2	3.5	B2/1000		G2/1000
BVH	(80°-90°)	113.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5651.2	5651.2	5651.2	5651.2	5651.2	5651.2	5651.2	5651.2	5651.2	5651.2	5651.2
2.5°	7022.0	6945.4	6885.1	6832.1	6762.9	6575.9	6388.9	6385.9	6237.2	6007.5	5771.9
5°	8166.1	8063.0	8076.3	7911.3	7746.4	7475.5	7079.4	7058.8	6742.2	6312.3	5875.0
7.5°	8911.1	8912.6	8871.4	8777.1	8599.0	8291.2	7842.1	7740.5	7300.3	6648.0	5992.8
10°	8872.8	8912.6	8981.8	9062.8	9117.3	8965.6	8556.3	8432.6	7859.8	7054.4	6123.8
12.5°	8363.4	8425.2	8523.9	8727.1	9055.4	9305.7	9165.9	9065.7	8507.7	7459.3	6268.1
15°	8045.3	8082.1	8136.6	8273.6	8626.9	9226.2	9588.4	9535.4	9118.7	7917.2	6430.1
17.5°	7948.2	7985.0	8002.6	8086.6	8338.3	8952.4	9754.8	9849.1	9660.6	8338.3	6593.5
20°	8045.3	8063.0	8063.0	8113.1	8310.4	8791.9	9747.5	9937.4	10105.3	8843.4	6746.7
22.5°	8300.1	8307.4	8297.1	8314.8	8462.0	8836.0	9678.3	9913.8	10464.5	9271.9	6865.9
25°	8713.8	8725.6	8657.9	8616.6	8724.1	9030.4	9716.5	9933.0	10745.8	9681.2	6945.4
27.5°	9183.5	9198.2	9115.8	9020.1	9070.1	9270.4	9866.7	10061.1	10956.3	10084.6	6995.5
30°	9759.2	9765.1	9626.7	9511.9	9479.5	9628.2	10122.9	10304.0	11218.4	10560.2	7070.6
32.5°	10348.2	10392.4	10214.2	10052.3	9997.8	10043.4	10501.3	10676.6	11530.6	11071.2	7191.3
35°	11149.2	11156.6	10943.1	10745.8	10566.1	10625.0	10985.8	11112.4	11962.0	11661.6	7362.1
37.5°	12149.0	12216.7	11922.2	11554.1	11333.3	11247.9	11571.8	11710.2	12567.2	12386.0	7619.8
40°	13259.2	13284.2	13032.4	12802.7	12399.3	12151.9	12375.7	12525.9	13313.7	13250.4	7918.7
42.5°	13957.1	14011.6	14030.7	14007.2	13703.9	13288.6	13374.0	13444.7	14197.1	14061.7	8225.0
45°	14192.7	14273.7	14547.6	15127.7	15160.1	14750.8	14552.0	14619.7	15160.1	14880.3	8518.0
47.5°	13802.5	13940.9	14446.0	15635.7	16526.5	16557.4	15958.2	15809.4	16037.7	15559.1	8730.0
50°	12793.9	12823.4	13596.4	15319.1	17167.0	18284.6	17664.7	17387.9	16871.1	16061.2	8875.8
52.5°	11233.1	11267.0	11914.9	13848.2	16772.4	19492.0	19661.3	19166.6	17717.7	16451.4	8971.5
55°	8338.3	8534.2	9246.8	11115.3	14902.4	19378.6	21248.6	20967.4	18741.0	16760.6	9121.7
57.5°	5127.0	4947.4	5792.5	7562.4	11208.1	17820.8	21738.9	21830.2	19867.4	17019.8	9373.5
60°	2358.8	2394.2	2743.1	3900.5	6832.1	13940.9	20475.6	21052.8	20490.3	17010.9	9436.8
62.5°	1625.6	1593.2	1504.8	1712.4	3115.7	8816.9	17295.1	18272.8	19241.7	16482.3	9185.0
65°	1453.3	1420.9	1250.1	1192.7	1431.2	3843.0	12573.0	13806.9	16201.1	15148.3	8557.7
67.5°	1357.6	1313.4	1136.7	1024.8	1021.9	1529.9	7413.7	8899.3	12016.5	12807.2	7415.1
70°	1257.5	1222.1	1046.9	923.2	870.2	961.5	3258.5	4265.6	7802.4	9229.2	5776.3
72.5°	1157.3	1116.1	958.5	826.0	756.8	720.0	1248.6	1624.1	4408.4	5533.4	3541.2
75°	1011.6	990.9	857.0	748.0	672.9	581.6	792.2	904.1	2108.5	2541.4	1777.2
77.5°	884.9	862.8	761.2	653.8	599.3	472.6	562.5	614.0	889.3	1030.7	802.5
80°	647.9	670.0	642.0	577.2	534.5	371.1	378.4	421.1	528.6	584.6	490.3
82.5°	410.8	452.0	494.7	444.7	404.9	293.0	262.1	278.3	360.7	382.8	217.9
85°	172.3	175.2	287.1	270.9	231.2	173.7	157.5	166.4	192.9	201.7	101.6
87.5°	66.3	64.8	101.6	94.2	72.1	50.1	50.1	56.0	76.6	70.7	32.4
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°	5651.2	5651.2	5651.2	5651.2	5651.2	5651.2	5651.2	5651.2	5651.2	5651.2	5651.2
2.5°	5670.3	5565.8	5358.2	5100.5	4912.0	4700.0	4513.0	4379.0	4328.9	4305.4	4261.2
5°	5665.9	5459.8	5029.8	4579.2	4217.0	3846.0	3532.4	3329.2	3311.5	3176.0	3162.8
7.5°	5667.4	5352.3	4667.6	4005.0	3452.8	3073.0	2813.8	2746.1	2665.1	2644.5	2654.8
10°	5671.8	5215.3	4278.9	3436.6	2902.2	2653.3	2556.1	2529.6	2532.6	2541.4	2542.9
12.5°	5677.7	5082.8	3875.4	3005.2	2592.9	2489.9	2479.6	2503.1	2528.2	2547.3	2551.7
15°	5685.0	4931.2	3482.3	2657.7	2438.3	2429.5	2463.4	2503.1	2538.5	2566.4	2570.9
17.5°	5676.2	4754.5	3152.5	2444.2	2352.9	2395.6	2451.6	2501.7	2534.0	2560.5	2563.5
20°	5655.6	4557.2	2834.4	2294.0	2299.9	2369.1	2429.5	2476.6	2512.0	2525.2	2535.5
22.5°	5576.1	4321.6	2557.6	2177.7	2236.6	2332.3	2404.5	2432.4	2392.7	2364.7	2372.1
25°	5440.6	4015.3	2299.9	2083.5	2179.2	2280.8	2354.4	2286.7	2254.3	2242.5	2248.4
27.5°	5271.3	3679.6	2105.6	1984.8	2105.6	2223.4	2202.7	2191.0	2176.2	2157.1	2161.5
30°	5088.7	3351.2	1940.7	1908.3	2026.1	2093.8	2102.6	2121.8	2105.6	2076.1	2087.9
32.5°	4919.4	3042.0	1815.5	1843.5	1970.1	1959.8	2026.1	2048.1	1973.1	1874.4	1878.8
35°	4775.1	2754.9	1721.3	1780.2	1874.4	1878.8	1945.1	1868.5	1787.5	1740.4	1743.4
37.5°	4666.1	2531.1	1659.4	1725.7	1752.2	1808.1	1772.8	1733.0	1722.7	1690.3	1691.8
40°	4601.3	2335.3	1619.7	1683.0	1678.6	1716.8	1603.5	1643.2	1658.0	1647.6	1649.1
42.5°	4536.5	2196.9	1578.4	1624.1	1622.6	1547.5	1522.5	1556.4	1594.6	1599.1	1596.1
45°	4485.0	2089.4	1535.7	1534.3	1563.7	1445.9	1438.6	1459.2	1513.7	1540.2	1538.7
47.5°	4427.6	1999.6	1471.0	1429.7	1438.6	1382.6	1370.8	1379.7	1445.9	1488.6	1500.4
50°	4355.4	1909.7	1390.0	1334.0	1297.2	1323.7	1326.7	1328.1	1394.4	1443.0	1453.3
52.5°	4298.0	1842.0	1297.2	1256.0	1211.8	1270.7	1292.8	1295.7	1335.5	1375.2	1382.6
55°	4331.9	1803.7	1205.9	1176.5	1136.7	1216.2	1258.9	1264.8	1273.6	1303.1	1307.5
57.5°	4433.5	1812.6	1132.3	1094.0	1064.6	1151.4	1223.6	1228.0	1222.1	1257.5	1263.3
60°	4464.4	1808.1	1077.8	1002.7	985.1	1082.2	1172.1	1180.9	1179.4	1230.9	1241.3
62.5°	4334.8	1752.2	1023.3	926.2	914.4	1011.6	1099.9	1135.2	1142.6	1216.2	1229.5
65°	4030.0	1637.3	951.2	845.2	845.2	936.5	1030.7	1079.3	1099.9	1198.6	1213.3
67.5°	3628.1	1501.9	877.6	776.0	773.0	864.3	957.1	1007.1	1039.5	1173.5	1182.4
70°	3011.1	1319.3	786.3	700.9	700.9	783.3	867.3	927.6	974.7	1126.4	1126.4
72.5°	2062.9	1097.0	675.8	615.5	616.9	693.5	778.9	846.6	902.6	1032.2	1035.1
75°	1304.6	857.0	555.1	524.2	530.1	602.2	690.6	761.2	873.1	1020.4	1024.8
77.5°	693.5	602.2	441.7	434.4	441.7	508.0	606.6	703.8	876.1	884.9	870.2
80°	449.1	427.0	349.0	334.2	337.2	409.3	540.4	668.5	703.8	712.7	680.3
82.5°	244.4	270.9	247.4	232.6	232.6	319.5	460.9	531.5	505.0	419.6	400.5
85°	104.5	126.6	128.1	111.9	107.5	197.3	309.2	290.1	269.5	257.7	254.7
87.5°	29.4	41.2	41.2	30.9	23.6	54.5	61.8	17.7	0.0	1.5	2.9
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)