

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: P454097

Luminaire Tested: **GALN-SA5A-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13361 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 154
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

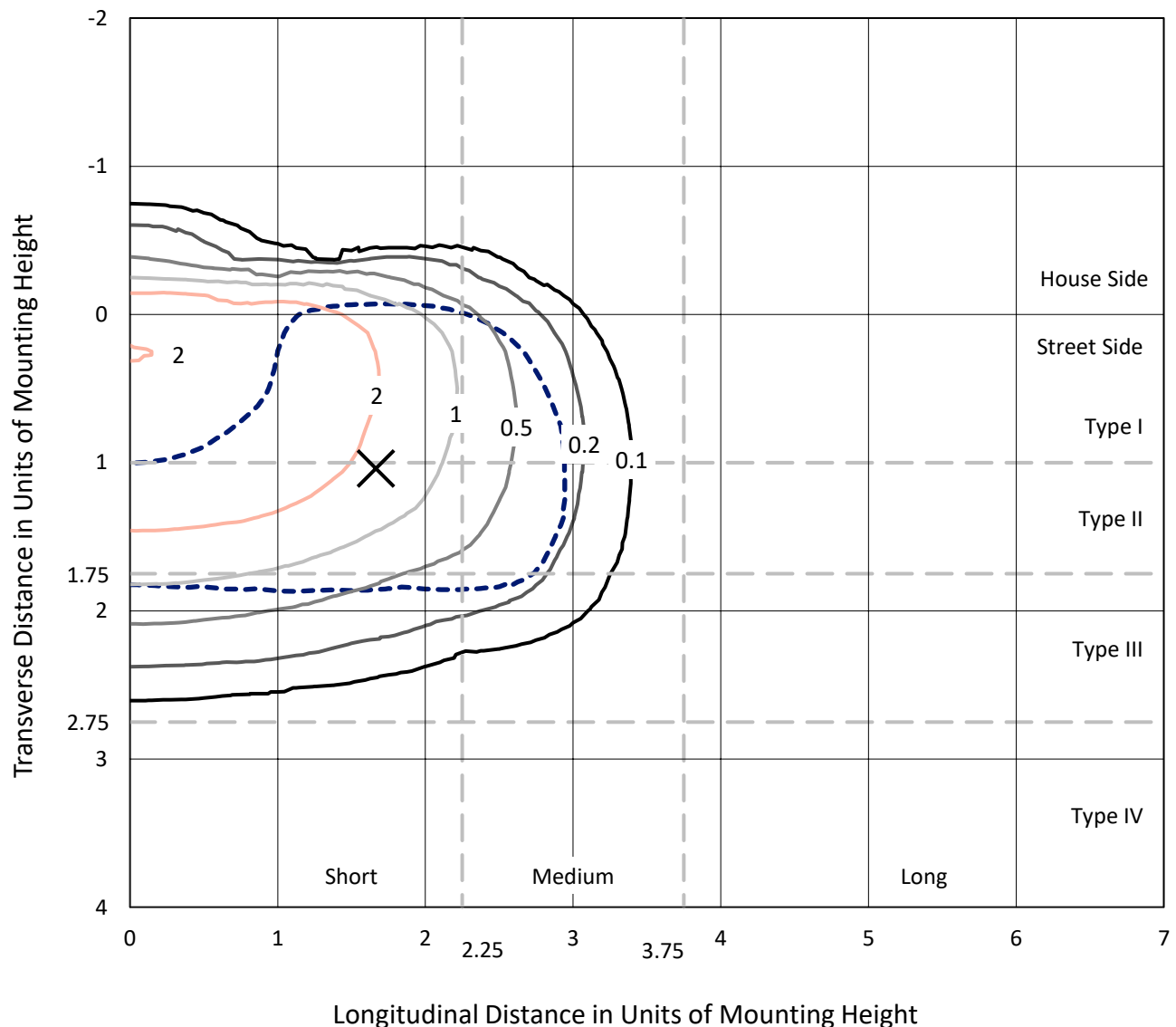


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Iso-Footcandle Lines of Horizontal Illumination

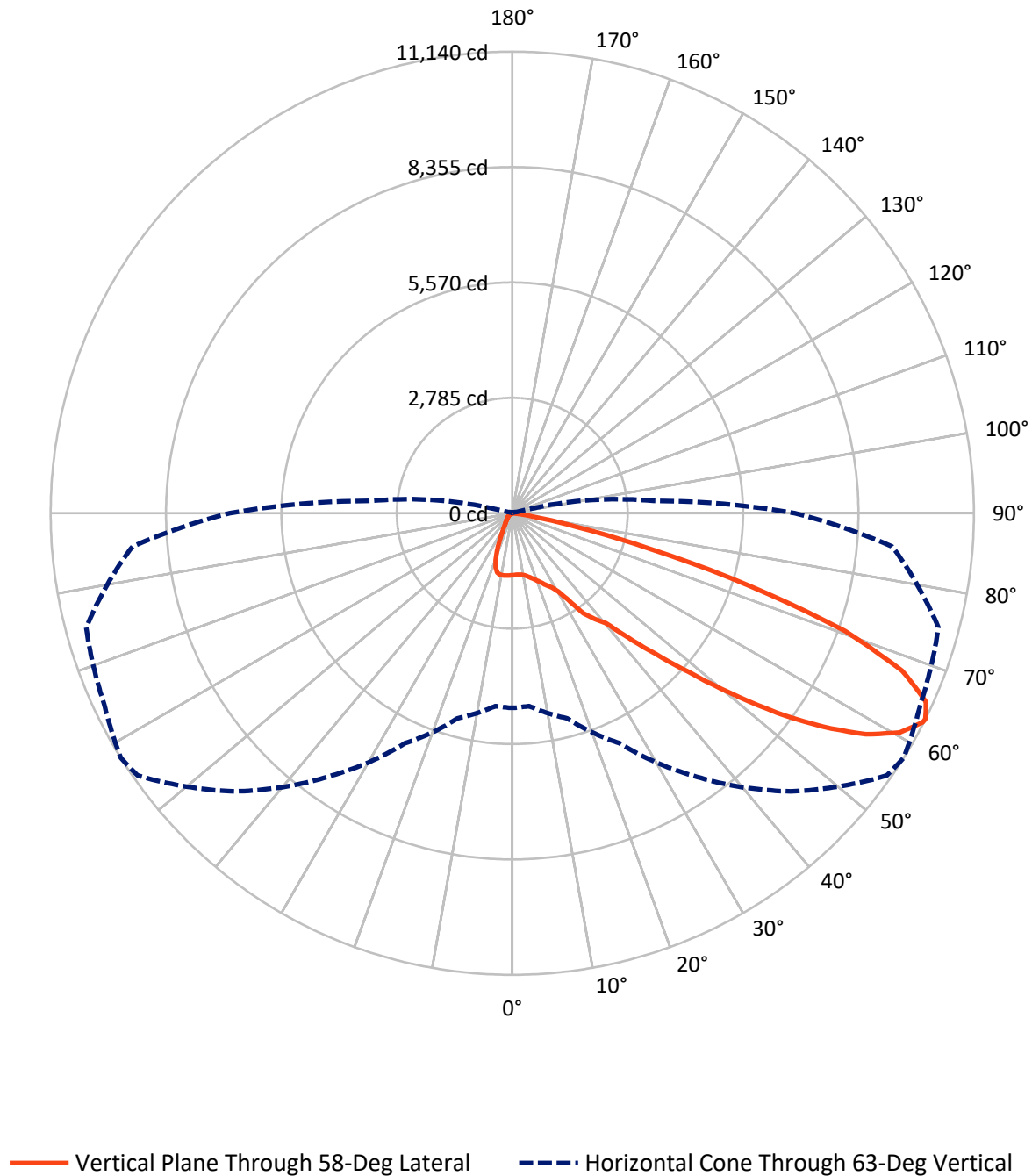
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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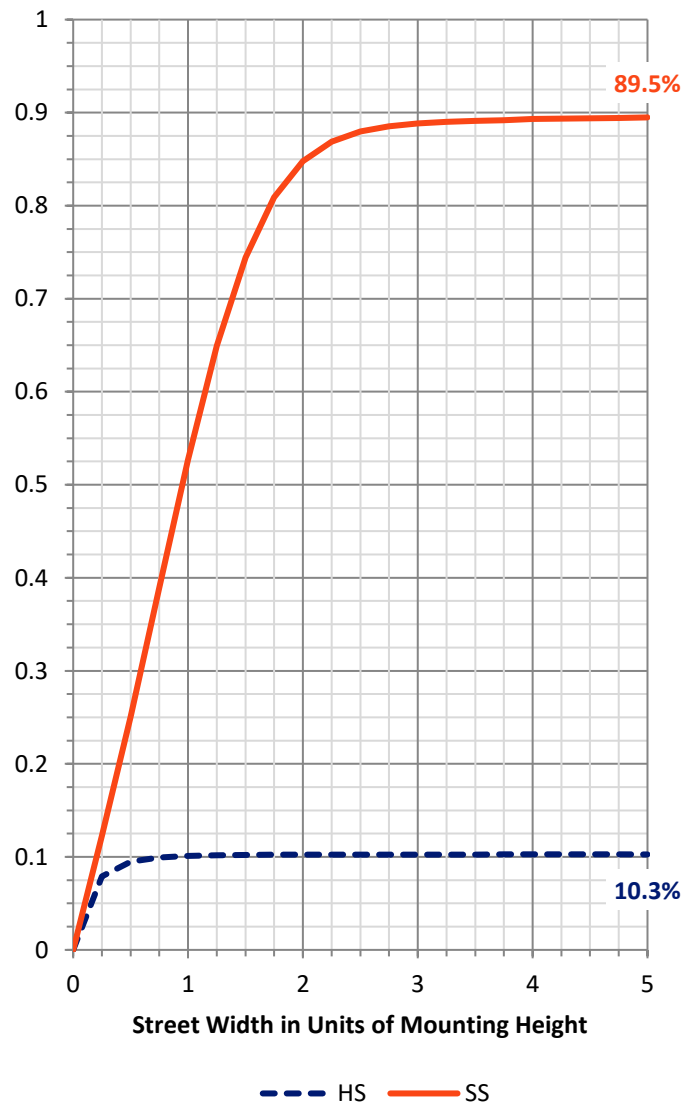
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1383.4	0.0	1383.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11977.6	0.0	11977.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	13361.0	0.0	13361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	1.0
10°-20°	381.4	2.9
20°-30°	661.9	5.0
30°-40°	1216.3	9.1
40°-50°	2289.7	17.1
50°-60°	3916.4	29.3
60°-70°	3750.0	28.1
70°-80°	956.3	7.2
80°-90°	48.9	0.4
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°	13361.0	100.0
0°-180°	13361.0	100.0

Coefficient of Utilization



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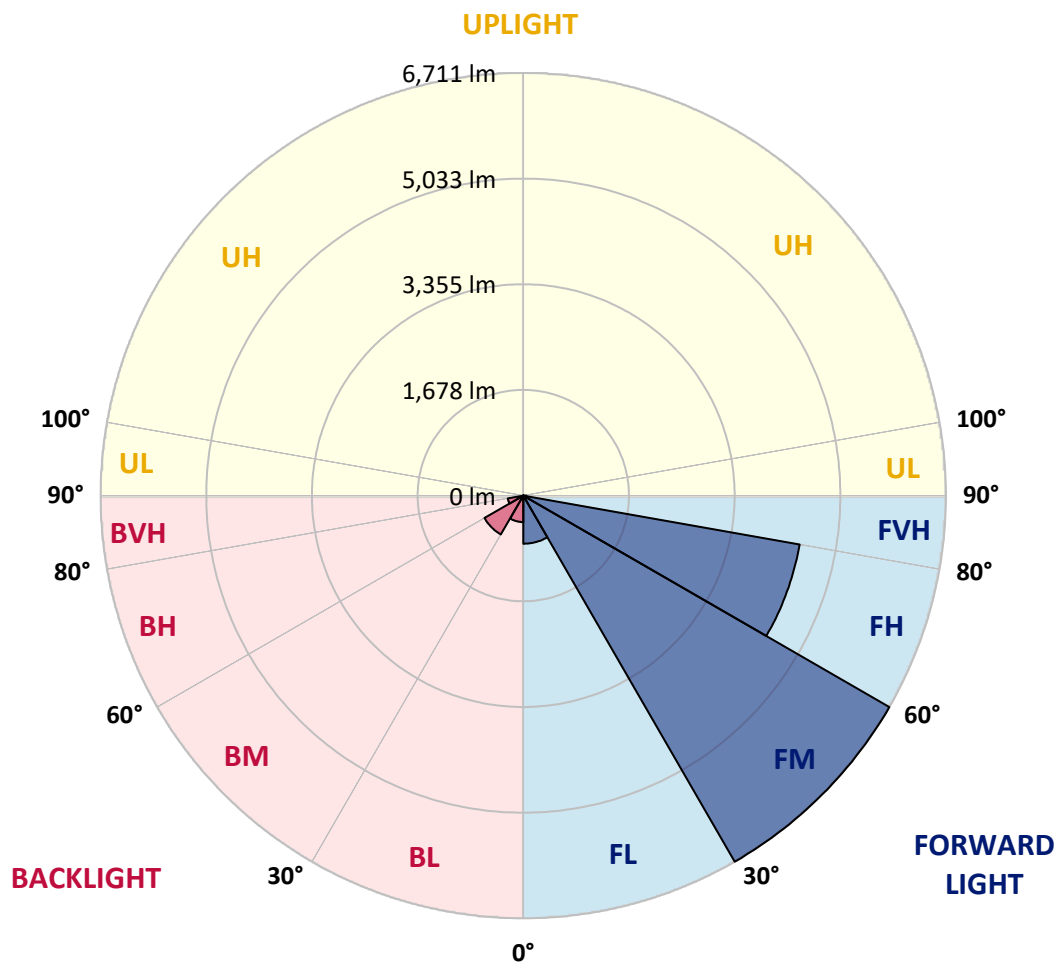
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	763.8	5.7			
FM	(30°-60°)	6711.0	50.2			
FH	(60°-80°)	4455.8	33.3			G2/5000
FVH	(80°-90°)	47.0	0.4			G1/100
BL	(0°-30°)	419.6	3.1	B1/500		
BM	(30°-60°)	711.6	5.3	B1/1000		
BH	(60°-80°)	250.4	1.9	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8
2.5°	1458.6	1463.6	1468.7	1470.7	1477.7	1484.8	1489.8	1488.8	1496.8	1500.8	1500.8
5°	1400.3	1400.3	1413.3	1425.4	1445.5	1465.6	1484.8	1488.8	1503.9	1517.9	1523.0
7.5°	1351.0	1354.0	1364.0	1386.2	1413.3	1448.5	1486.8	1495.8	1522.0	1553.2	1566.2
10°	1327.8	1329.8	1342.9	1366.1	1400.3	1448.5	1501.9	1519.0	1559.2	1608.5	1626.6
12.5°	1322.8	1325.8	1338.9	1365.0	1404.3	1462.6	1535.0	1553.2	1611.5	1674.9	1702.0
15°	1331.8	1333.9	1346.9	1375.1	1418.4	1487.8	1579.3	1604.5	1673.9	1747.3	1782.5
17.5°	1364.0	1362.0	1371.1	1394.2	1442.5	1519.0	1632.6	1662.8	1744.3	1844.9	1868.0
20°	1500.8	1487.8	1479.7	1459.6	1478.7	1563.2	1697.0	1741.3	1841.9	1944.5	1960.6
22.5°	1795.6	1766.4	1709.1	1630.6	1570.3	1623.6	1774.5	1825.8	1955.5	2056.1	2056.1
25°	2170.8	2133.6	2076.2	1905.2	1757.4	1723.2	1862.0	1926.4	2079.3	2180.9	2147.7
27.5°	2640.6	2611.4	2499.7	2300.6	2074.2	1897.2	1963.6	2022.9	2188.9	2311.6	2242.2
30°	3022.8	3008.7	2917.2	2739.1	2489.7	2231.1	2152.7	2191.9	2334.8	2476.6	2405.2
32.5°	3345.7	3345.7	3252.2	3086.2	2852.8	2623.5	2473.6	2501.7	2638.6	2802.5	2669.7
35°	3700.8	3688.7	3613.3	3455.4	3193.8	2991.6	2930.3	2968.5	3092.2	3213.9	2887.0
37.5°	4074.0	4070.0	3991.5	3838.6	3625.4	3370.9	3227.0	3237.1	3300.5	3374.9	3141.5
40°	4479.4	4485.4	4382.8	4288.3	4087.1	3826.6	3550.9	3487.6	3546.9	3757.1	3611.3
42.5°	4958.2	4944.1	4899.9	4771.1	4609.2	4453.2	4122.3	4099.2	4151.5	4376.8	4218.9
45°	5514.5	5534.6	5458.2	5386.7	5278.1	5148.3	4871.7	4831.5	4888.8	5238.9	5014.6
47.5°	6071.8	6052.7	6102.0	6088.9	6147.2	6050.7	5806.2	5723.7	5861.5	6193.5	5863.6
50°	6496.3	6517.4	6620.0	6769.9	7020.4	7074.7	6840.3	6812.1	6873.5	7086.8	6623.0
52.5°	6771.9	6842.3	7003.3	7388.5	7840.2	8191.3	8013.2	7998.1	7973.0	8030.3	7349.3
55°	6952.0	7023.4	7233.6	7801.0	8578.6	9148.9	9158.0	9093.6	8927.6	8886.4	8028.3
57.5°	6841.3	6855.4	7155.2	7913.6	8988.0	9831.9	10127.7	10063.3	9756.5	9600.6	8627.8
60°	6149.2	6178.4	6595.9	7487.1	8809.9	10055.3	10770.5	10741.3	10405.3	10229.3	9094.6
62.5°	4923.0	5007.5	5437.0	6430.9	7982.0	9679.0	11031.0	11113.5	10852.0	10609.5	9241.5
63°	4697.7	4670.5	5124.2	6123.1	7762.7	9492.9	11035.0	11139.7	10872.1	10645.7	9201.2
65°	3477.5	3559.0	3853.7	4828.5	6460.1	8626.8	10786.6	10971.7	10797.6	10485.8	8755.6
67.5°	1952.5	1948.5	2274.4	3159.6	4521.6	6766.9	9753.5	10144.8	10108.6	9409.5	7257.8
70°	955.6	970.7	1104.5	1637.7	2622.5	4668.5	8104.8	8527.3	8540.3	7390.6	5018.6
72.5°	432.5	439.6	535.2	797.7	1347.9	2485.6	5584.9	5988.3	5913.9	4709.8	2771.3
75°	228.3	243.4	294.7	401.4	649.8	1025.0	3037.9	3428.2	3272.3	2151.7	1020.0
77.5°	169.0	174.0	200.2	255.5	348.1	399.4	1310.7	1559.2	1460.6	778.6	338.0
80°	123.7	127.8	148.9	181.1	219.3	203.2	493.9	566.3	508.0	264.6	103.6
82.5°	75.4	76.5	108.6	134.8	137.8	113.7	163.0	175.0	183.1	148.9	56.3
85°	27.2	34.2	73.4	97.6	81.5	57.3	68.4	75.4	82.5	94.6	33.2
87.5°	3.0	4.0	35.2	47.3	23.1	21.1	25.1	28.2	30.2	35.2	16.1
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°	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8
2.5°	1504.9	1508.9	1505.9	1500.8	1499.8	1496.8	1490.8	1490.8	1490.8	1492.8	1490.8
5°	1527.0	1530.0	1523.0	1512.9	1501.9	1487.8	1472.7	1463.6	1462.6	1460.6	1455.6
7.5°	1569.2	1573.3	1557.2	1533.0	1502.9	1468.7	1436.5	1406.3	1392.2	1381.1	1381.1
10°	1630.6	1634.6	1602.4	1559.2	1498.8	1429.4	1353.0	1283.6	1229.2	1204.1	1198.1
12.5°	1704.0	1706.1	1652.7	1577.3	1477.7	1343.9	1181.0	1029.1	923.4	875.2	870.1
15°	1784.5	1770.4	1700.0	1584.3	1417.4	1167.9	886.2	700.1	590.5	558.3	570.4
17.5°	1866.0	1839.8	1736.2	1573.3	1281.6	886.2	595.5	477.8	443.6	434.6	434.6
20°	1942.4	1906.2	1762.4	1525.0	1046.2	610.6	441.6	413.4	407.4	401.4	402.4
22.5°	2018.9	1963.6	1785.5	1417.4	779.6	436.6	395.3	386.3	378.2	370.2	369.2
25°	2093.3	2016.9	1794.6	1218.2	531.1	375.2	361.1	349.1	333.0	323.9	321.9
27.5°	2170.8	2081.3	1788.5	966.7	387.3	336.0	321.9	304.8	285.7	269.6	269.6
30°	2319.7	2204.0	1767.4	695.1	325.9	295.7	277.6	250.5	229.4	213.3	212.3
32.5°	2522.9	2363.9	1695.0	488.9	289.7	260.5	233.4	203.2	181.1	169.0	169.0
35°	2703.9	2524.9	1559.2	360.1	260.5	226.3	193.1	164.0	146.9	138.8	135.8
37.5°	2979.6	2760.3	1372.1	292.7	232.4	196.2	162.0	134.8	120.7	114.7	114.7
40°	3393.0	3048.0	1142.7	256.5	205.2	167.0	134.8	113.7	102.6	95.6	95.6
42.5°	3906.0	3400.0	910.4	230.4	180.1	143.8	112.7	96.6	86.5	81.5	80.5
45°	4551.8	3771.2	701.1	206.2	159.9	122.7	95.6	81.5	71.4	68.4	69.4
47.5°	5225.8	4098.2	543.2	185.1	138.8	103.6	81.5	70.4	63.4	59.3	59.3
50°	5801.2	4323.5	412.4	160.9	122.7	87.5	71.4	63.4	57.3	55.3	54.3
52.5°	6282.0	4388.9	315.9	139.8	107.6	75.4	63.4	57.3	52.3	49.3	49.3
55°	6691.4	4331.5	247.5	117.7	90.5	65.4	56.3	51.3	45.3	42.2	41.2
57.5°	6930.8	4147.4	189.1	97.6	73.4	54.3	49.3	43.3	36.2	31.2	31.2
60°	7051.6	3879.9	144.9	80.5	56.3	43.3	40.2	32.2	25.1	21.1	20.1
62.5°	6906.7	3524.8	109.6	63.4	42.2	32.2	27.2	23.1	16.1	12.1	12.1
63°	6817.2	3422.2	105.6	60.4	39.2	30.2	25.1	21.1	14.1	11.1	10.1
65°	6214.6	2974.5	86.5	48.3	31.2	21.1	17.1	15.1	10.1	5.0	4.0
67.5°	4935.1	2275.4	68.4	36.2	22.1	15.1	10.1	9.1	3.0	0.0	0.0
70°	3336.7	1469.7	53.3	26.2	15.1	9.1	5.0	4.0	1.0	0.0	0.0
72.5°	1740.3	753.4	41.2	19.1	9.1	6.0	3.0	1.0	0.0	0.0	0.0
75°	615.6	256.5	30.2	12.1	6.0	3.0	1.0	0.0	0.0	0.0	0.0
77.5°	186.1	95.6	19.1	9.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	65.4	35.2	11.1	6.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.2	17.1	7.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	18.1	11.1	6.0	5.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	8.0	6.0	5.0	4.0	2.0	1.0	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)