

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: P939574

Luminaire Tested: **GALN-SB2B-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

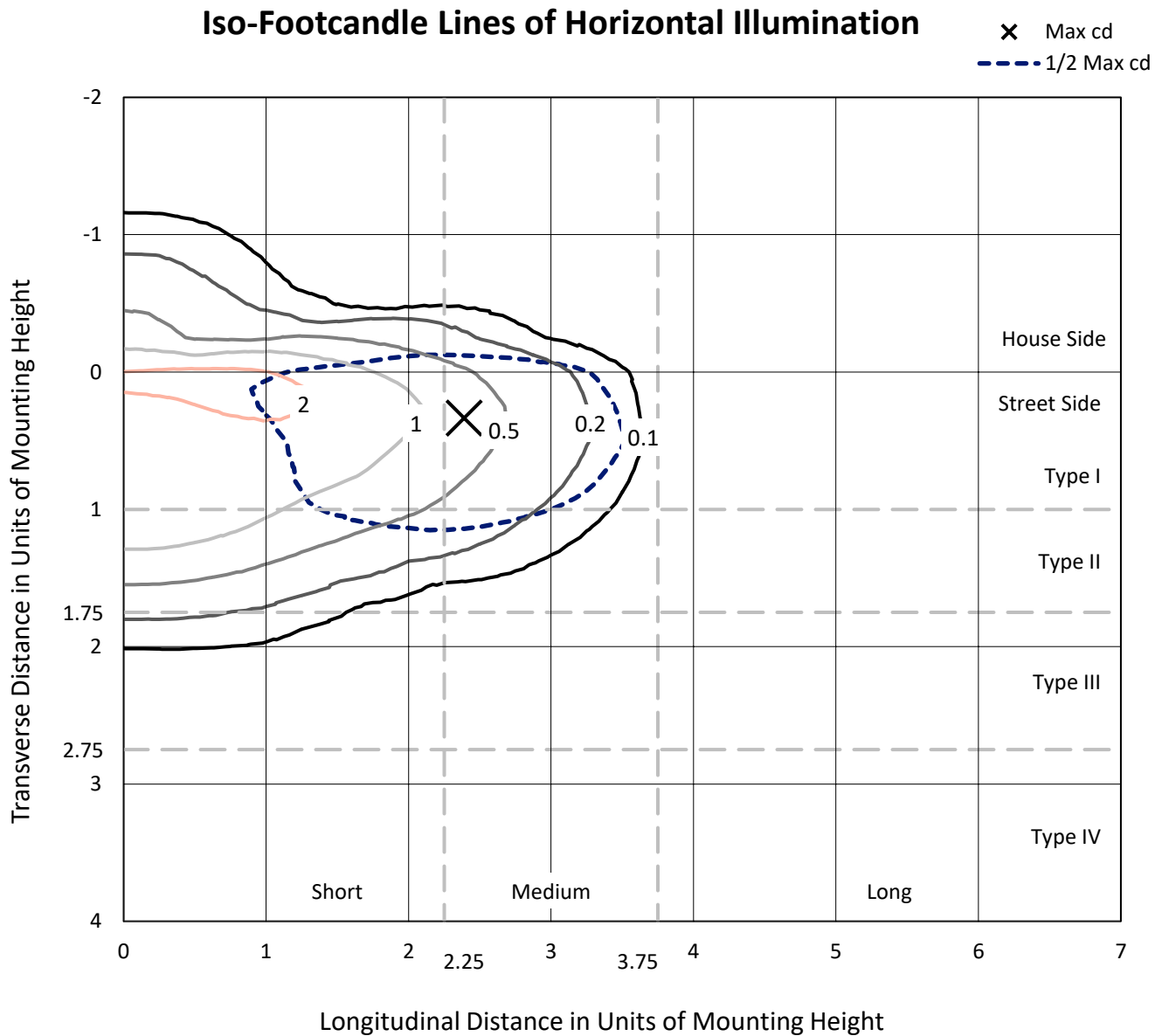
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7627 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.9
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

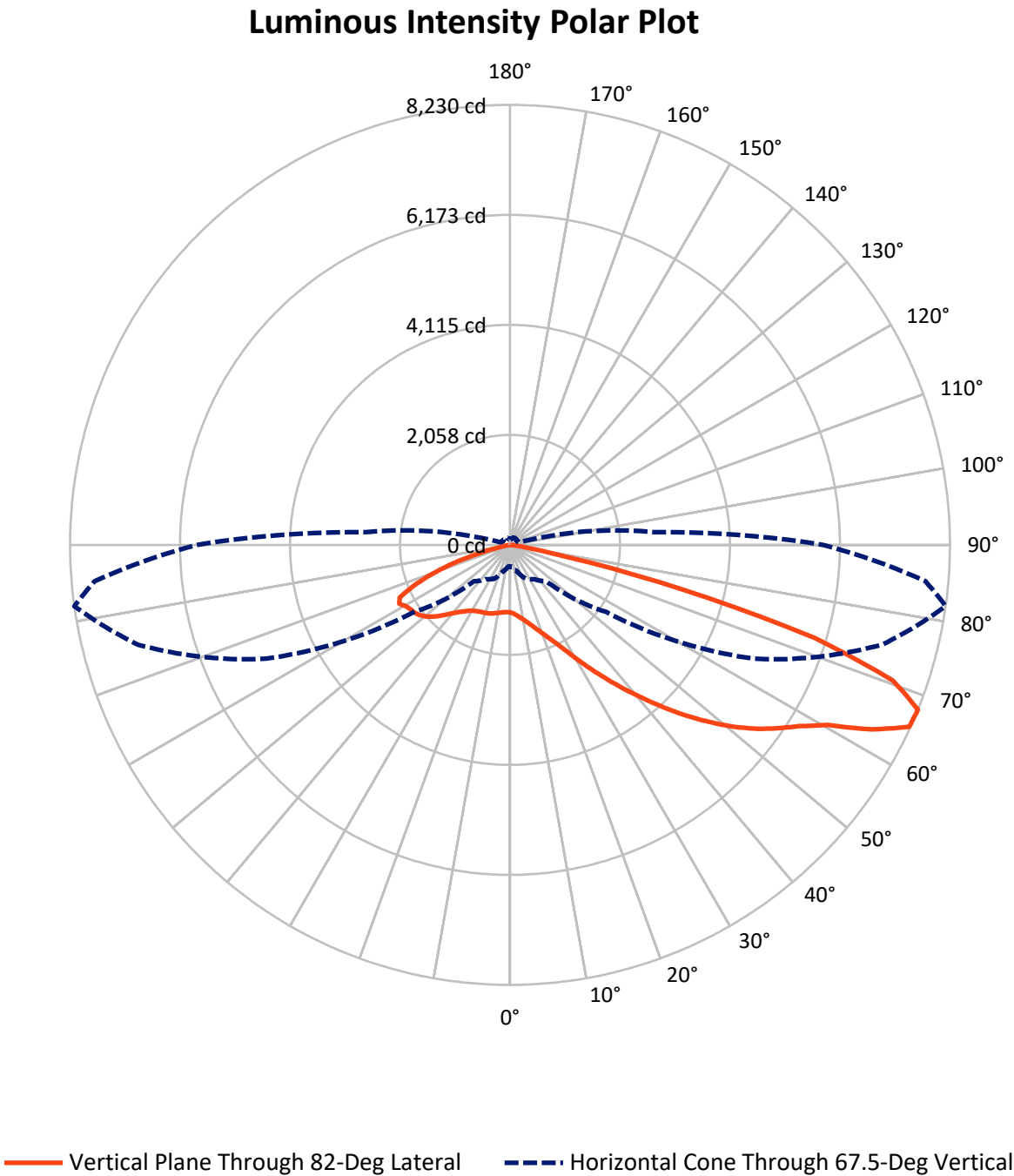


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Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type II - Medium - N/A

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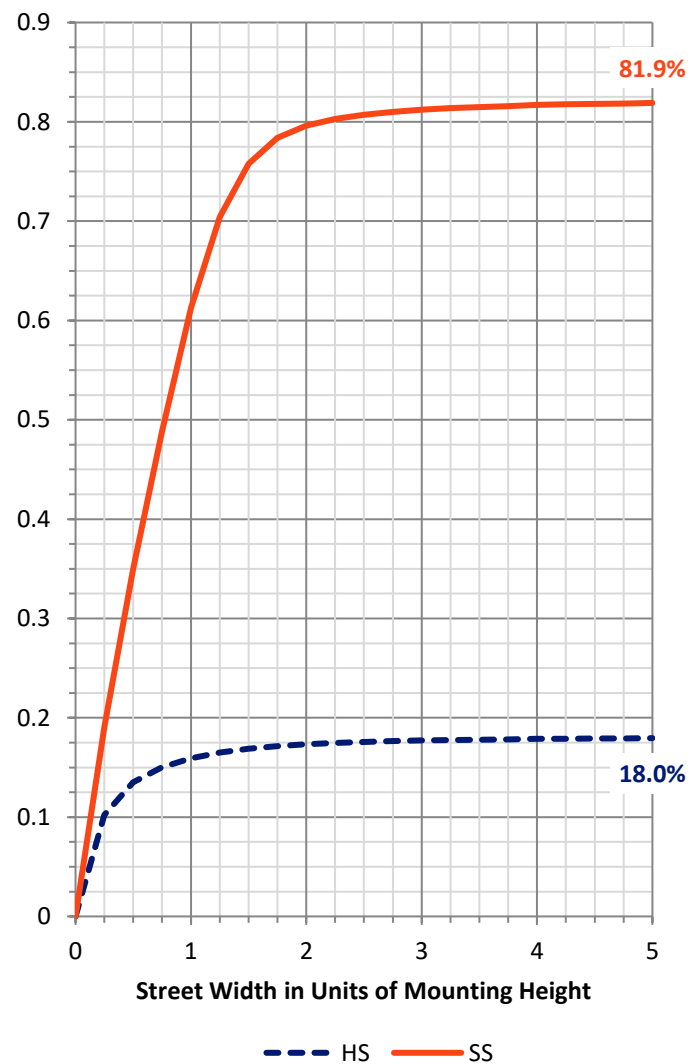
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1381.6	0.0	1381.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6245.4	0.0	6245.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	7627.0	0.0	7627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	1.5
10°-20°	292.5	3.8
20°-30°	468.5	6.1
30°-40°	828.5	10.9
40°-50°	1451.6	19.0
50°-60°	1936.1	25.4
60°-70°	1802.4	23.6
70°-80°	691.8	9.1
80°-90°	43.0	0.6
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°	7627.0	100.0
0°-180°	7627.0	100.0

Coefficient of Utilization



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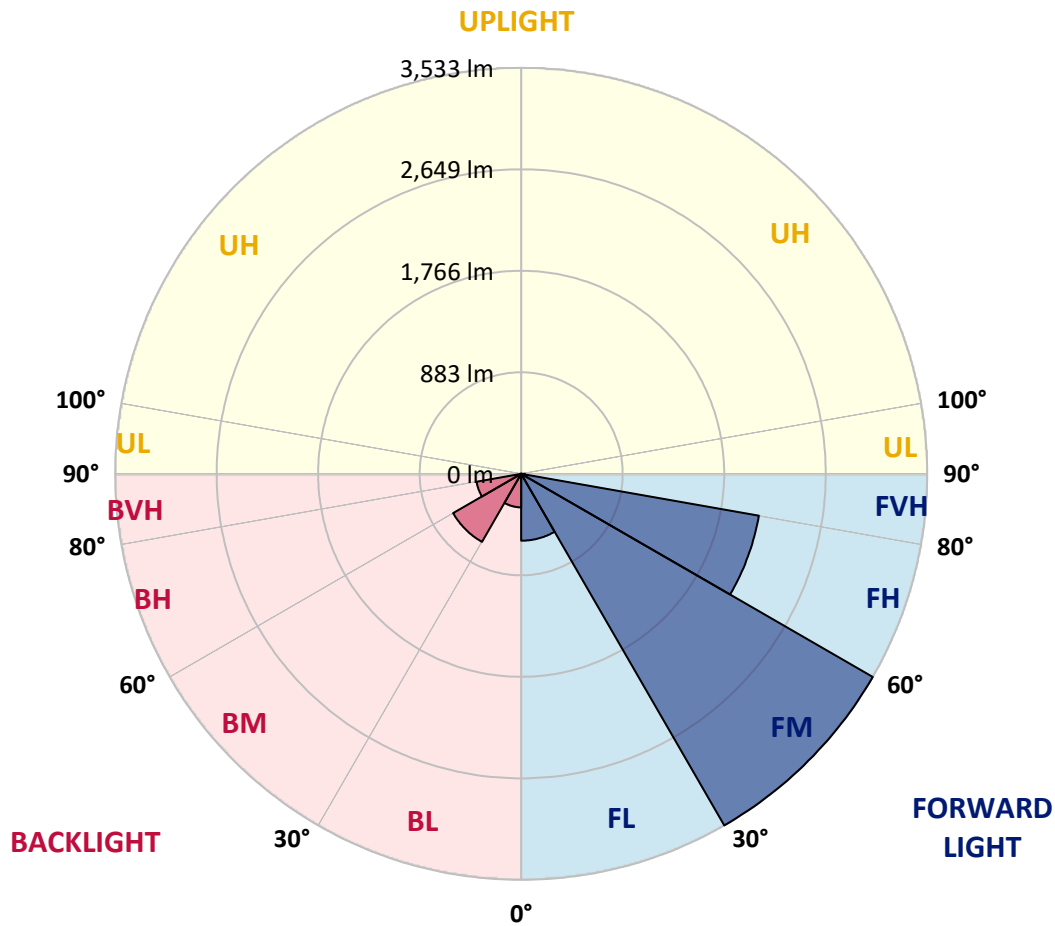
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	581.9	7.6			
FM	(30°-60°)	3532.5	46.3			
FH	(60°-80°)	2099.8	27.5			G2/5000
FVH	(80°-90°)	31.2	0.4			G1/100
BL	(0°-30°)	291.8	3.8	B1/500		
BM	(30°-60°)	683.7	9.0	B1/1000		
BH	(60°-80°)	394.3	5.2	B1/500		G1/500
BVH	(80°-90°)	11.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5
2.5°	1335.5	1343.2	1338.8	1336.6	1332.7	1327.2	1322.8	1309.1	1294.8	1285.5	1282.2
5°	1362.4	1370.1	1369.5	1371.7	1374.5	1376.1	1375.0	1359.6	1339.3	1323.4	1314.1
7.5°	1339.3	1348.1	1355.2	1366.2	1385.4	1405.8	1415.6	1412.3	1391.5	1369.5	1358.0
10°	1274.0	1283.3	1300.3	1326.1	1366.8	1410.7	1447.5	1464.5	1451.3	1427.2	1411.3
12.5°	1154.3	1163.6	1197.1	1253.1	1321.2	1397.5	1467.8	1513.4	1516.7	1492.5	1473.9
15°	1019.7	1029.1	1064.8	1135.0	1238.8	1361.3	1478.8	1565.0	1594.1	1573.2	1550.7
17.5°	936.3	944.5	971.4	1028.0	1136.1	1288.8	1474.9	1619.9	1686.4	1669.9	1643.0
20°	911.0	918.1	930.8	970.3	1060.4	1213.6	1449.7	1671.5	1785.8	1776.4	1746.2
22.5°	937.9	944.5	948.3	965.9	1022.5	1164.1	1417.8	1724.3	1901.1	1902.2	1865.4
25°	1000.0	1006.5	1002.2	1013.1	1037.8	1148.8	1405.8	1786.3	2046.0	2058.1	2016.4
27.5°	1102.1	1102.6	1092.2	1091.7	1095.5	1171.8	1418.4	1852.7	2228.9	2251.4	2199.8
30°	1306.9	1298.7	1258.6	1215.2	1195.4	1241.0	1453.5	1931.3	2444.7	2484.8	2420.0
32.5°	1622.7	1610.6	1537.0	1433.2	1328.9	1352.5	1516.7	2020.8	2679.7	2752.2	2673.1
35°	1965.3	1962.0	1885.1	1730.8	1548.5	1511.2	1619.4	2138.3	2936.2	3051.5	2957.6
37.5°	2283.8	2282.2	2238.2	2056.5	1834.6	1732.5	1784.1	2292.0	3210.7	3377.7	3266.7
40°	2574.8	2579.8	2535.9	2373.3	2149.8	2016.4	2008.1	2482.0	3516.0	3732.9	3601.2
42.5°	2826.3	2831.8	2787.4	2667.1	2461.2	2330.5	2283.3	2714.9	3814.2	4114.6	3958.6
45°	2997.1	3031.2	3024.6	2928.5	2780.8	2645.1	2613.8	3007.0	4154.1	4519.3	4336.4
47.5°	3045.4	3076.7	3126.2	3139.3	3049.3	2915.9	2953.2	3359.0	4497.9	4924.5	4716.4
50°	2926.3	2955.4	3058.1	3194.8	3257.4	3216.2	3283.2	3736.2	4849.9	5328.7	5089.3
52.5°	2691.3	2720.9	2850.5	3066.9	3322.2	3451.8	3614.3	4108.0	5190.9	5711.4	5442.4
55°	2351.4	2382.7	2549.0	2793.9	3198.7	3549.0	3890.5	4479.2	5503.3	6055.7	5760.9
57.5°	1889.0	1912.1	2085.0	2427.7	2887.8	3452.3	4094.3	4884.5	5797.7	6394.0	6076.6
60°	1231.1	1251.5	1452.4	1834.6	2372.8	3129.5	4134.9	5336.4	6188.6	6833.9	6502.2
62.5°	818.7	832.5	951.6	1232.2	1671.0	2509.5	3897.1	5697.2	6761.9	7599.3	7232.0
65°	561.8	575.5	694.6	890.1	1079.6	1660.0	3213.5	5649.4	7281.4	8207.2	7772.9
67.5°	400.9	412.4	513.4	697.9	781.4	964.3	2178.4	5038.8	7206.7	8230.3	7802.0
70°	287.2	293.8	377.2	543.6	621.1	579.3	1211.4	3853.8	6310.0	7599.9	7207.8
72.5°	201.0	203.2	261.9	414.0	500.3	422.8	576.6	2569.4	4772.4	5965.1	5587.9
75°	136.2	138.9	176.3	303.7	401.4	322.9	305.3	1377.8	2801.6	3301.9	2959.8
77.5°	83.5	84.6	113.7	207.6	300.4	246.0	196.6	583.7	1084.0	1064.2	907.2
80°	47.2	47.2	72.5	129.0	204.8	158.7	137.8	248.2	343.2	301.5	265.8
82.5°	26.4	26.9	52.7	80.2	135.6	93.9	75.8	114.8	148.3	131.2	114.2
85°	11.0	12.1	32.4	37.9	64.8	46.7	30.8	48.3	54.9	48.9	35.7
87.5°	1.1	1.6	9.9	7.1	7.7	9.3	4.4	9.3	7.7	7.7	5.5
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°	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5
2.5°	1271.8	1263.5	1242.7	1218.5	1186.7	1171.3	1150.4	1136.1	1124.1	1125.2	1114.2
5°	1296.5	1275.6	1228.9	1170.7	1098.2	1046.6	991.7	953.8	923.1	916.5	901.7
7.5°	1330.5	1297.6	1215.8	1110.9	988.4	895.6	812.7	759.4	721.5	709.5	697.4
10°	1374.5	1326.7	1198.7	1035.6	859.4	741.3	652.4	610.6	584.8	576.0	569.4
12.5°	1425.5	1360.2	1176.2	943.9	726.5	612.8	556.3	535.4	527.2	524.4	522.8
15°	1489.8	1401.9	1142.2	835.2	613.9	534.3	510.1	507.4	508.5	507.4	506.8
17.5°	1566.1	1447.5	1086.7	723.2	538.1	494.2	485.4	487.6	490.4	489.8	488.7
20°	1649.6	1492.5	1015.9	623.8	486.5	465.7	460.7	462.9	465.1	464.0	463.5
22.5°	1744.6	1540.8	937.4	546.4	451.9	439.3	433.8	434.4	434.4	432.2	431.1
25°	1858.2	1594.1	855.0	491.5	425.6	415.7	409.1	406.9	403.6	397.0	395.9
27.5°	1993.9	1650.7	775.9	453.0	404.7	395.4	387.7	382.2	374.0	363.0	361.9
30°	2146.5	1719.3	708.9	428.9	388.2	378.9	370.1	361.9	349.8	336.1	335.0
32.5°	2326.1	1792.9	660.0	412.9	373.4	363.5	353.1	343.2	330.0	316.3	316.8
35°	2540.3	1881.9	631.5	402.0	361.9	348.7	337.2	326.2	316.3	304.2	303.1
37.5°	2772.5	1976.3	622.7	396.5	354.2	333.9	320.7	313.0	311.9	304.8	304.2
40°	3026.8	2088.3	629.3	393.2	345.9	319.6	305.3	303.7	306.4	293.8	294.3
42.5°	3295.8	2221.2	640.3	389.3	334.4	305.3	291.6	291.6	289.4	271.8	271.8
45°	3586.9	2374.4	651.3	380.0	320.7	291.0	280.6	276.8	267.4	250.4	249.9
47.5°	3880.1	2530.4	659.5	363.0	304.2	279.0	269.6	260.8	247.1	231.7	231.2
50°	4158.5	2670.4	650.7	337.7	285.5	267.4	257.5	245.5	230.6	220.2	218.6
52.5°	4407.3	2791.7	613.4	308.1	265.8	255.3	246.6	233.9	221.8	210.9	209.8
55°	4623.6	2890.0	547.5	280.1	248.2	244.9	236.1	220.2	203.7	194.4	193.3
57.5°	4831.2	2964.7	465.1	257.0	232.3	233.4	220.2	205.9	190.5	180.7	179.6
60°	5107.4	3064.7	381.6	235.6	215.3	218.6	204.3	193.8	174.6	162.0	160.3
62.5°	5548.9	3220.1	303.1	209.2	195.5	196.6	190.5	177.9	154.9	140.0	138.9
65°	5899.2	3163.0	238.9	180.7	173.0	174.6	174.6	160.9	136.2	119.2	117.5
67.5°	5859.7	2708.3	190.5	152.7	151.6	152.7	156.5	145.0	120.8	107.1	104.9
70°	5397.9	2154.2	152.7	126.8	131.8	129.0	140.0	132.3	108.7	95.0	93.4
72.5°	4404.5	1551.8	116.4	104.9	101.0	105.4	126.3	119.2	90.6	75.2	73.6
75°	2573.7	828.1	86.8	82.9	73.0	87.9	112.0	101.6	69.2	55.5	53.8
77.5°	838.0	288.8	63.7	61.0	54.4	70.8	95.5	85.7	56.6	43.9	42.3
80°	224.6	87.3	43.4	40.1	35.1	52.7	75.8	68.1	40.6	28.6	28.0
82.5°	90.1	36.8	25.3	22.5	19.2	36.2	59.9	54.9	30.2	18.1	18.1
85°	29.1	12.1	9.3	7.1	8.8	22.5	35.7	37.3	21.4	9.3	7.1
87.5°	3.8	1.6	1.6	2.2	1.6	3.8	11.0	10.4	6.0	1.1	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)