

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: P940594

Luminaire Tested: **GALN-SB3D-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940594
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-SB3D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

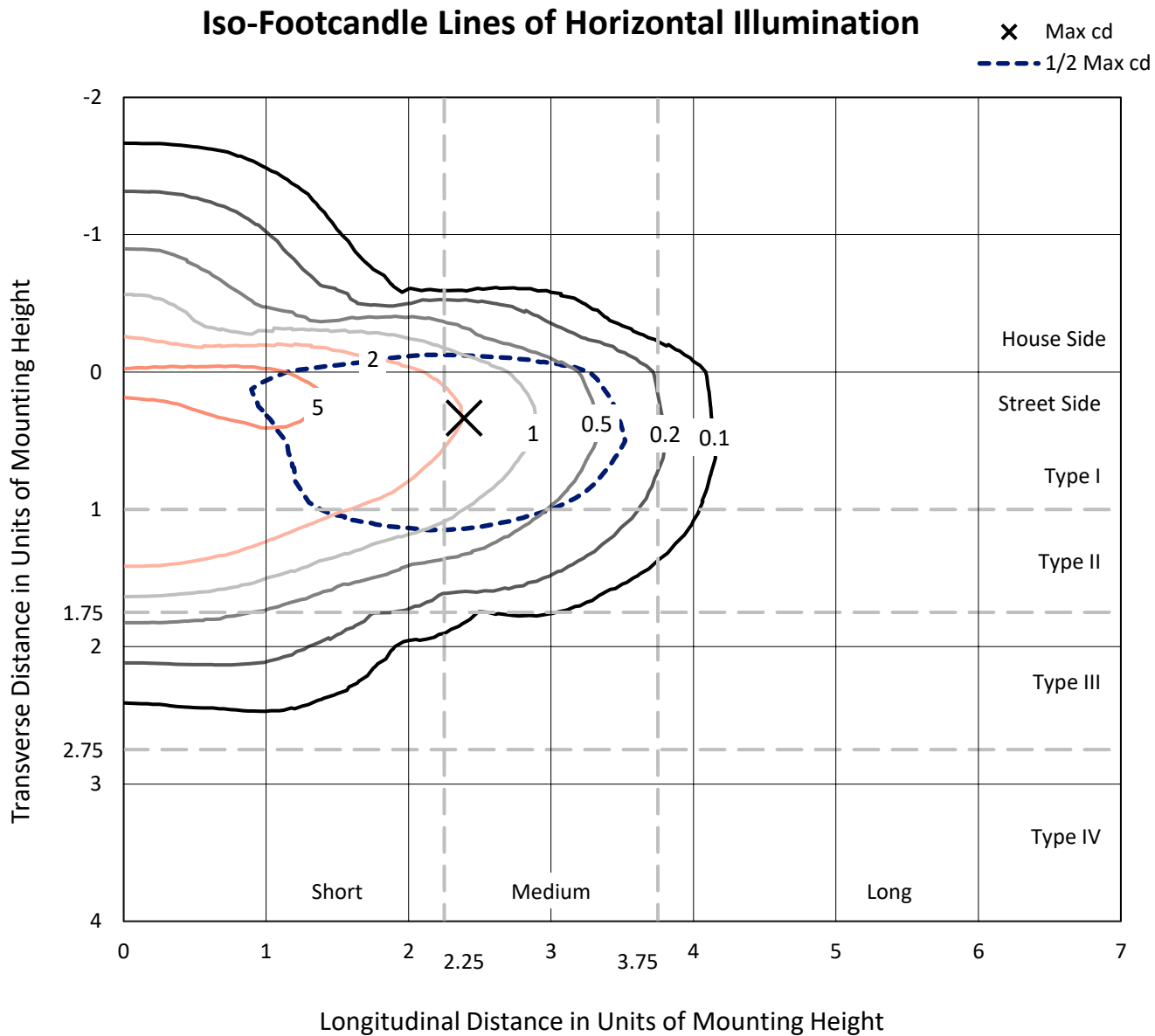
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20680 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 218.1
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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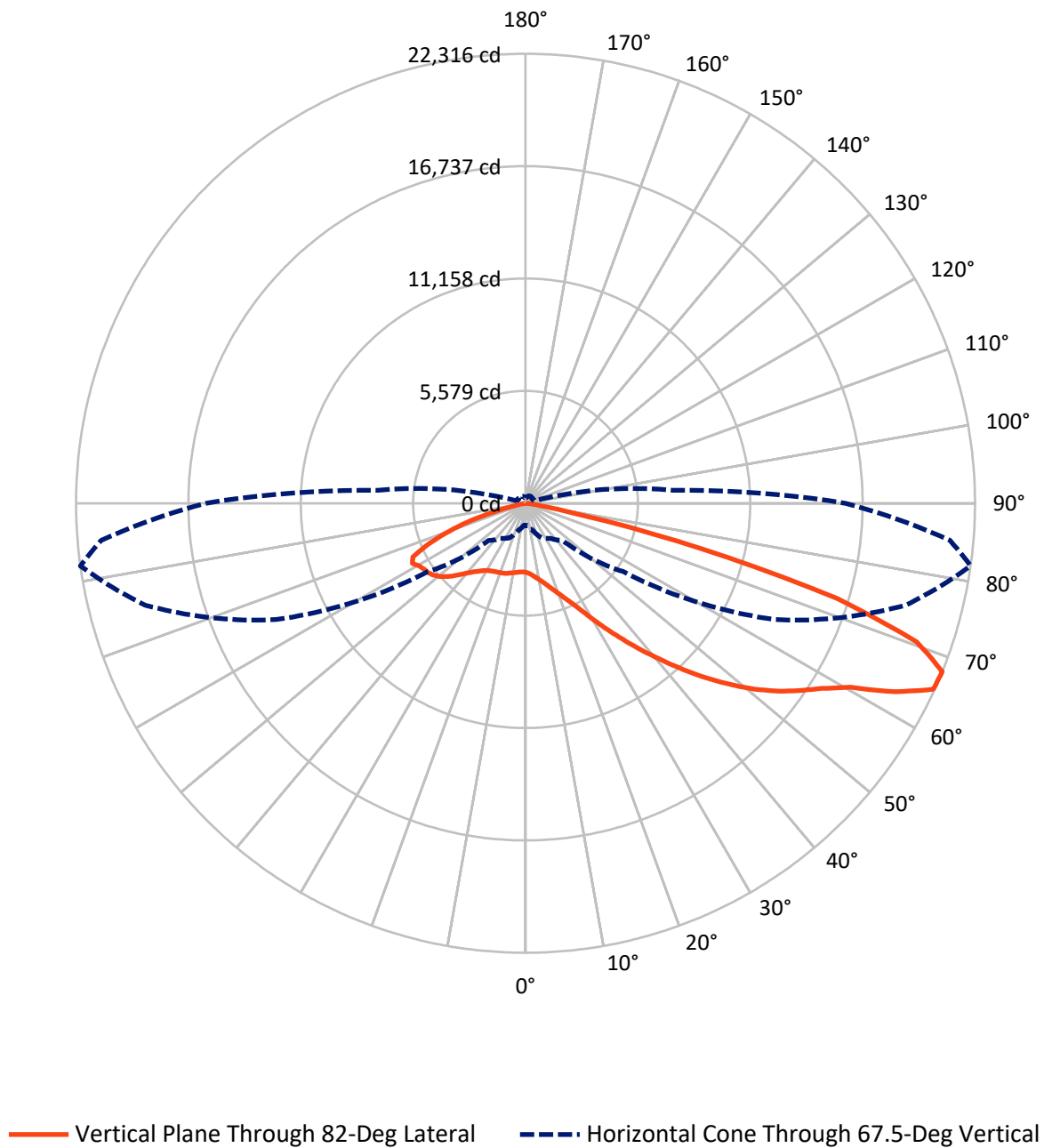


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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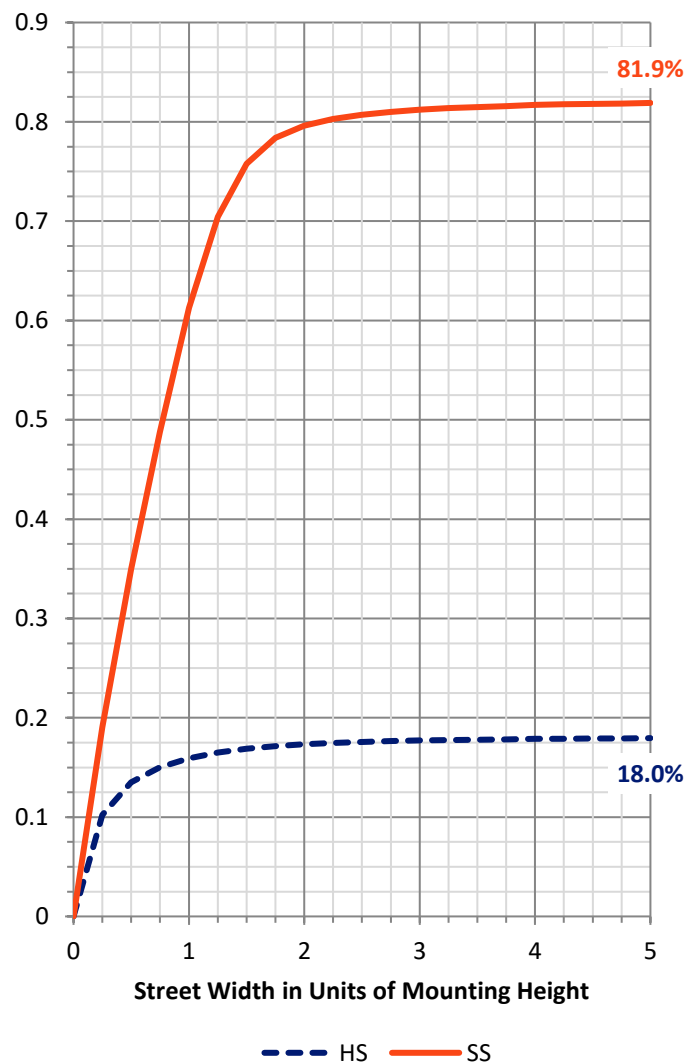
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3746.0	0.0	3746.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16934.0	0.0	16934.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	20680.0	0.0	20680.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.2	1.5
10°-20°	793.2	3.8
20°-30°	1270.4	6.1
30°-40°	2246.5	10.9
40°-50°	3936.0	19.0
50°-60°	5249.5	25.4
60°-70°	4887.1	23.6
70°-80°	1875.6	9.1
80°-90°	116.5	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°	20680.0	100.0
0°-180°	20680.0	100.0

Coefficient of Utilization



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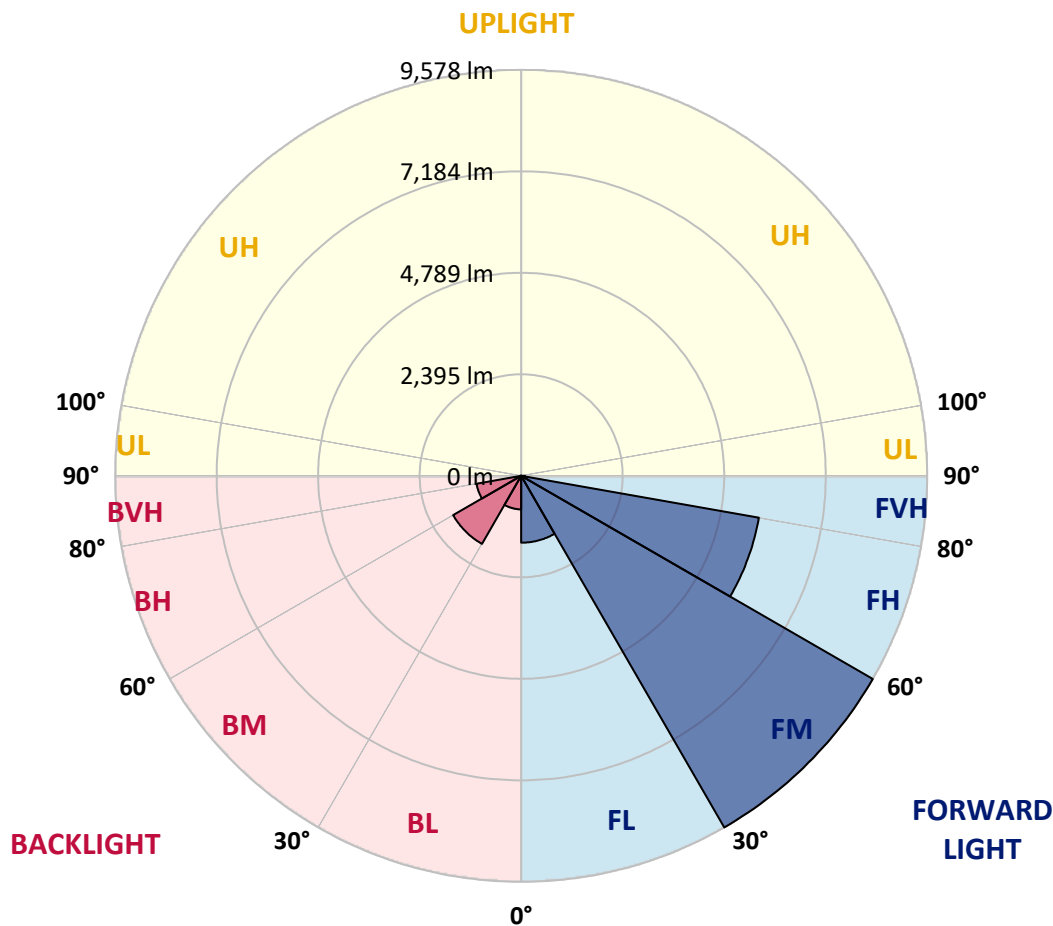
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1577.7	7.6			
FM	(30°-60°)	9578.1	46.3			
FH	(60°-80°)	5693.5	27.5			G3/7500
FVH	(80°-90°)	84.7	0.4			G1/100
BL	(0°-30°)	791.1	3.8	B2/1000		
BM	(30°-60°)	1853.9	9.0	B2/2500		
BH	(60°-80°)	1069.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	31.8	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3426.0	3426.0	3426.0	3426.0	3426.0	3426.0	3426.0	3426.0	3426.0	3426.0	3426.0
2.5°	3621.0	3641.9	3630.0	3624.0	3613.6	3598.7	3586.8	3549.6	3510.8	3485.5	3476.6
5°	3694.0	3714.8	3713.3	3719.3	3726.7	3731.2	3728.2	3686.5	3631.4	3588.3	3563.0
7.5°	3631.4	3655.3	3674.6	3704.4	3756.5	3811.6	3838.4	3829.5	3772.9	3713.3	3682.1
10°	3454.3	3479.6	3525.7	3595.7	3705.9	3825.0	3924.8	3970.9	3935.2	3869.7	3826.5
12.5°	3129.7	3155.0	3245.8	3397.7	3582.3	3789.3	3979.8	4103.4	4112.4	4046.9	3996.2
15°	2764.9	2790.2	2887.0	3077.6	3359.0	3691.0	4009.6	4243.4	4322.3	4265.7	4204.7
17.5°	2538.6	2560.9	2633.9	2787.2	3080.5	3494.5	3999.2	4392.3	4572.4	4527.8	4454.8
20°	2470.1	2489.5	2523.7	2630.9	2875.1	3290.5	3930.7	4532.2	4841.9	4816.6	4734.7
22.5°	2543.1	2560.9	2571.3	2619.0	2772.3	3156.5	3844.4	4675.2	5154.6	5157.6	5057.8
25°	2711.3	2729.2	2717.3	2747.0	2814.0	3114.8	3811.6	4843.4	5547.7	5580.4	5467.3
27.5°	2988.2	2989.7	2961.4	2959.9	2970.4	3177.3	3845.8	5023.6	6043.5	6104.5	5964.6
30°	3543.6	3521.3	3412.6	3295.0	3241.4	3364.9	3941.1	5236.5	6628.6	6737.3	6561.6
32.5°	4399.7	4367.0	4167.5	3886.0	3603.2	3667.2	4112.4	5479.2	7265.9	7462.4	7248.0
35°	5328.8	5319.9	5111.4	4693.0	4198.7	4097.5	4390.8	5797.8	7961.2	8273.9	8019.3
37.5°	6192.4	6187.9	6068.8	5576.0	4974.4	4697.5	4837.5	6214.7	8705.6	9158.3	8857.5
40°	6981.5	6994.9	6875.8	6435.1	5829.1	5467.3	5444.9	6729.9	9533.5	10121.6	9764.3
42.5°	7663.4	7678.3	7557.7	7231.6	6673.3	6318.9	6190.9	7361.2	10342.0	11156.4	10733.5
45°	8126.5	8218.8	8200.9	7940.3	7539.8	7172.1	7087.2	8153.3	11263.6	12253.7	11757.9
47.5°	8257.5	8342.3	8476.4	8512.1	8267.9	7906.1	8007.3	9107.6	12195.6	13352.5	12788.2
50°	7934.4	8013.3	8291.7	8662.5	8832.2	8720.5	8902.2	10130.5	13150.0	14448.4	13799.2
52.5°	7297.1	7377.5	7728.9	8315.5	9007.9	9359.3	9800.0	11138.5	14074.6	15486.1	14756.6
55°	6375.5	6460.4	6911.5	7575.6	8672.9	9622.8	10548.9	12145.0	14921.8	16419.7	15620.1
57.5°	5121.8	5184.4	5653.4	6582.5	7830.2	9360.8	11101.3	13243.8	15719.9	17336.8	16476.3
60°	3338.1	3393.2	3938.2	4974.4	6433.6	8485.3	11211.5	14469.2	16780.0	18529.5	17630.2
62.5°	2220.0	2257.2	2580.3	3341.1	4530.7	6804.3	10566.8	15447.4	18334.4	20605.0	19608.9
65°	1523.2	1560.4	1883.5	2413.5	2927.2	4501.0	8713.1	15317.9	19742.9	22253.2	21075.5
67.5°	1086.9	1118.2	1392.1	1892.4	2118.7	2614.5	5906.5	13662.2	19540.4	22315.7	21154.4
70°	778.7	796.6	1022.9	1474.0	1684.0	1570.8	3284.5	10449.2	17109.0	20606.5	19543.4
72.5°	544.9	550.9	710.2	1122.6	1356.4	1146.5	1563.4	6966.6	12940.1	16174.0	15151.1
75°	369.2	376.7	477.9	823.4	1088.4	875.5	827.8	3735.7	7596.4	8952.8	8025.2
77.5°	226.3	229.3	308.2	562.8	814.4	667.0	533.0	1582.7	2939.1	2885.5	2459.7
80°	128.0	128.0	196.5	349.9	555.4	430.3	373.7	673.0	930.6	817.4	720.6
82.5°	71.5	73.0	142.9	217.4	367.8	254.6	205.5	311.2	402.0	355.8	309.7
85°	29.8	32.8	87.8	102.7	175.7	126.6	83.4	131.0	148.9	132.5	96.8
87.5°	3.0	4.5	26.8	19.4	20.8	25.3	11.9	25.3	20.8	20.8	14.9
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°	3426.0	3426.0	3426.0	3426.0	3426.0	3426.0	3426.0	3426.0	3426.0	3426.0	3426.0
2.5°	3448.3	3426.0	3369.4	3303.9	3217.5	3175.8	3119.3	3080.5	3047.8	3050.8	3021.0
5°	3515.3	3458.7	3332.2	3174.4	2977.8	2837.9	2689.0	2586.2	2502.9	2485.0	2444.8
7.5°	3607.6	3518.3	3296.4	3012.1	2680.0	2428.4	2203.6	2059.2	1956.4	1923.7	1890.9
10°	3726.7	3597.2	3250.3	2808.1	2330.1	2010.0	1768.8	1655.7	1585.7	1561.9	1544.0
12.5°	3865.2	3688.0	3189.2	2559.4	1969.8	1661.6	1508.3	1451.7	1429.4	1421.9	1417.4
15°	4039.4	3801.2	3096.9	2264.6	1664.6	1448.7	1383.2	1375.8	1378.7	1375.8	1374.3
17.5°	4246.4	3924.8	2946.5	1960.9	1459.1	1340.0	1316.2	1322.1	1329.6	1328.1	1325.1
20°	4472.7	4046.9	2754.5	1691.4	1319.2	1262.6	1249.2	1255.1	1261.1	1258.1	1256.6
22.5°	4730.3	4177.9	2541.6	1481.5	1225.4	1191.1	1176.2	1177.7	1177.7	1171.8	1168.8
25°	5038.5	4322.3	2318.2	1332.6	1153.9	1127.1	1109.2	1103.3	1094.3	1076.5	1073.5
27.5°	5406.2	4475.7	2103.8	1228.3	1097.3	1072.0	1051.2	1036.3	1013.9	984.2	981.2
30°	5820.1	4661.8	1922.2	1162.8	1052.7	1027.3	1003.5	981.2	948.4	911.2	908.2
32.5°	6307.0	4861.3	1789.7	1119.7	1012.5	985.7	957.4	930.6	894.8	857.6	859.1
35°	6887.7	5102.5	1712.2	1089.9	981.2	945.5	914.2	884.4	857.6	824.9	821.9
37.5°	7517.5	5358.6	1688.4	1075.0	960.3	905.3	869.5	848.7	845.7	826.3	824.9
40°	8206.9	5662.3	1706.3	1066.1	938.0	866.5	827.8	823.4	830.8	796.6	798.1
42.5°	8936.4	6022.6	1736.1	1055.6	906.7	827.8	790.6	790.6	784.7	737.0	737.0
45°	9725.5	6438.0	1765.8	1030.3	869.5	789.1	760.8	750.4	725.1	678.9	677.5
47.5°	10520.6	6860.9	1788.2	984.2	824.9	756.4	731.1	707.2	670.0	628.3	626.8
50°	11275.5	7240.6	1764.4	915.7	774.2	725.1	698.3	665.5	625.3	597.1	592.6
52.5°	11950.0	7569.6	1663.1	835.3	720.6	692.3	668.5	634.3	601.5	571.7	568.8
55°	12536.6	7836.1	1484.4	759.3	673.0	664.1	640.2	597.1	552.4	527.1	524.1
57.5°	13099.4	8038.6	1261.1	696.8	629.8	632.8	597.1	558.3	516.7	489.9	486.9
60°	13848.3	8309.6	1034.8	638.7	583.7	592.6	553.9	525.6	473.5	439.2	434.8
62.5°	15045.4	8731.0	821.9	567.3	530.1	533.0	516.7	482.4	419.9	379.7	376.7
65°	15995.3	8576.1	647.7	489.9	469.0	473.5	473.5	436.2	369.2	323.1	318.6
67.5°	15888.1	7343.3	516.7	413.9	410.9	413.9	424.3	393.1	327.6	290.3	284.4
70°	14636.0	5841.0	413.9	343.9	357.3	349.9	379.7	358.8	294.8	257.6	253.1
72.5°	11942.5	4207.7	315.6	284.4	274.0	285.9	342.4	323.1	245.7	204.0	199.5
75°	6978.5	2245.3	235.2	224.8	198.0	238.2	303.7	275.4	187.6	150.4	145.9
77.5°	2272.1	783.2	172.7	165.3	147.4	192.1	259.1	232.3	153.4	119.1	114.6
80°	609.0	236.7	117.6	108.7	95.3	142.9	205.5	184.6	110.2	77.4	75.9
82.5°	244.2	99.8	68.5	61.0	52.1	98.3	162.3	148.9	81.9	49.1	49.1
85°	78.9	32.8	25.3	19.4	23.8	61.0	96.8	101.2	58.1	25.3	19.4
87.5°	10.4	4.5	4.5	6.0	4.5	10.4	29.8	28.3	16.4	3.0	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)