

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: P948798

Luminaire Tested: **GALN-SB3D-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28264 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

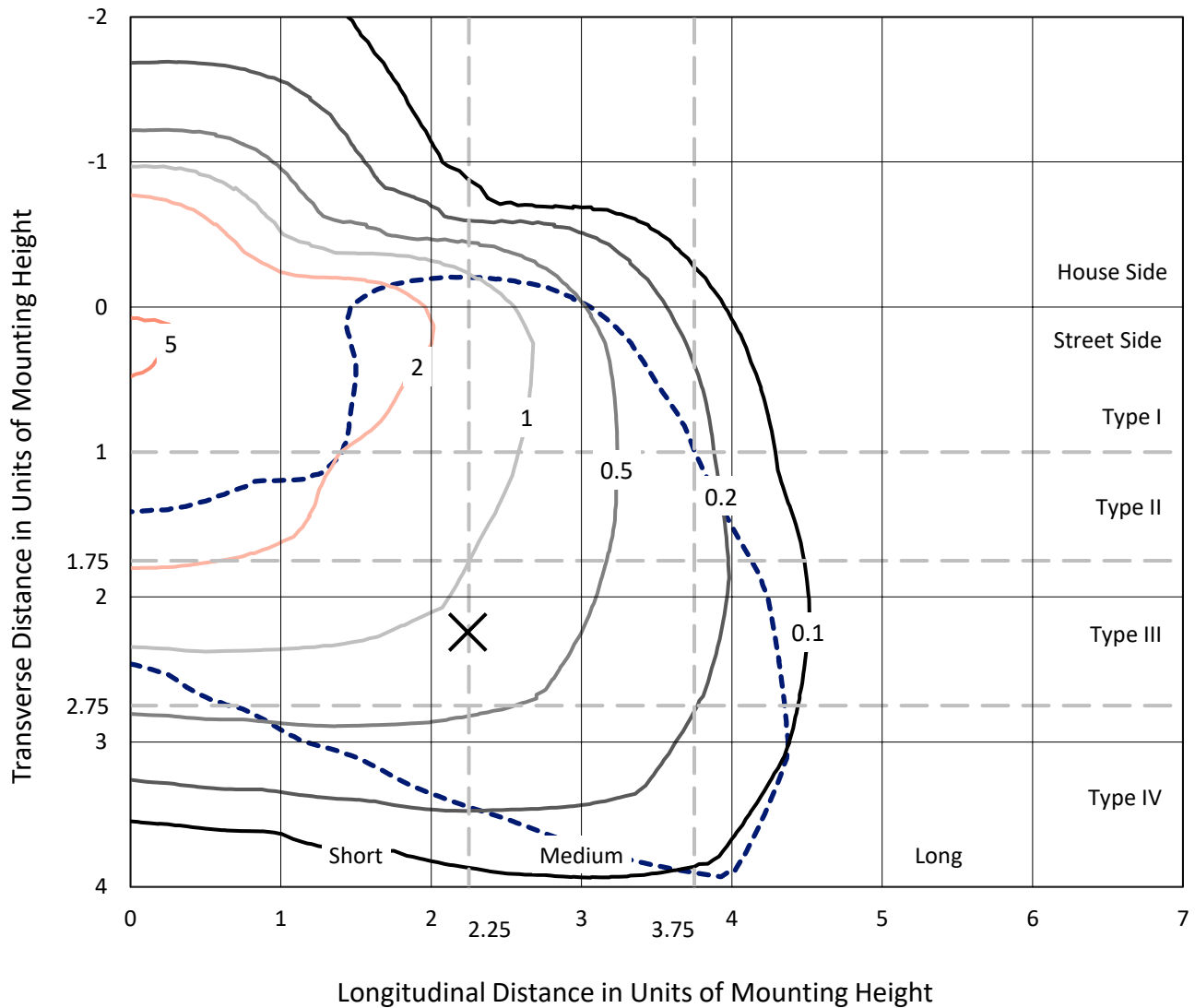


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

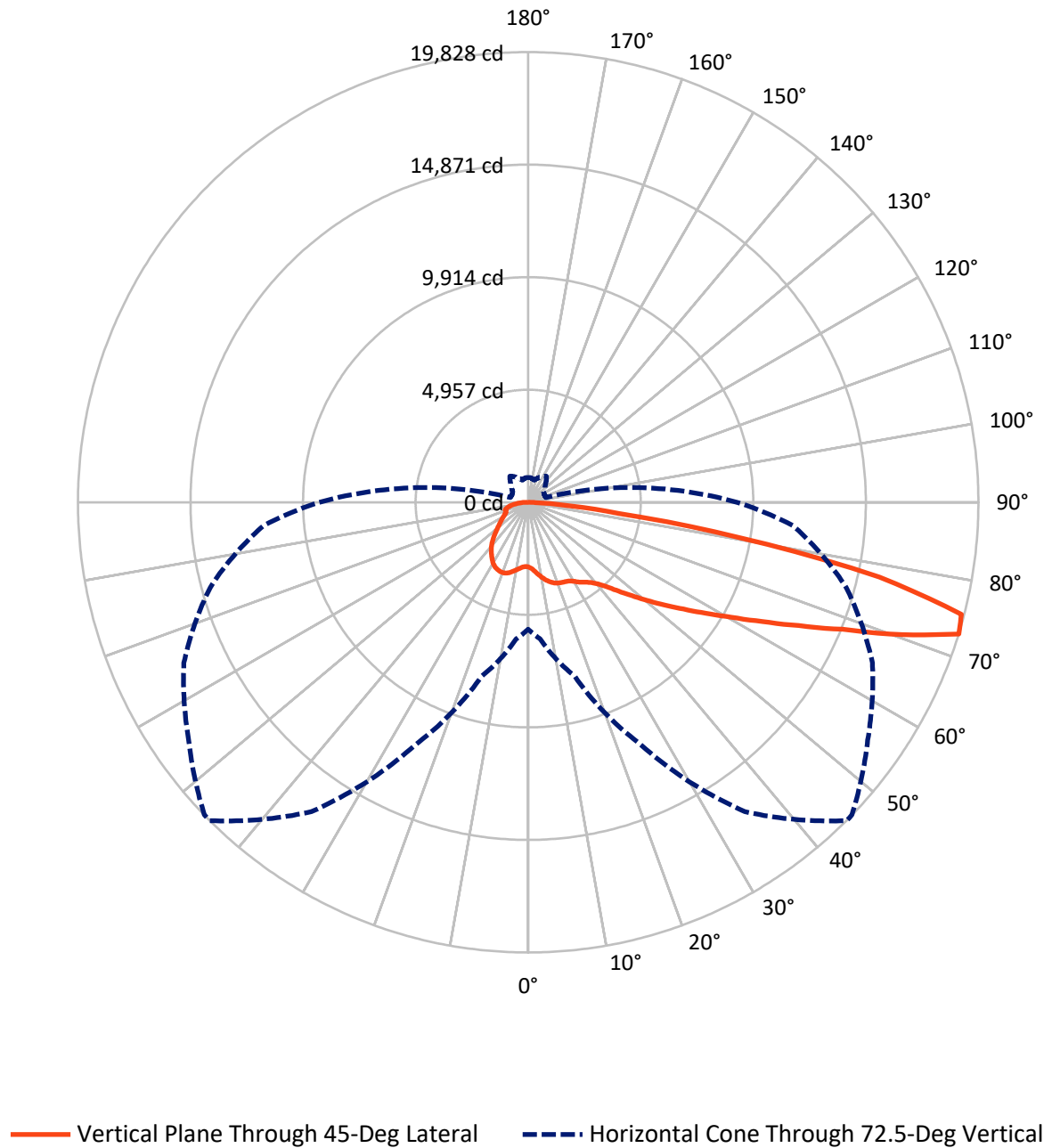


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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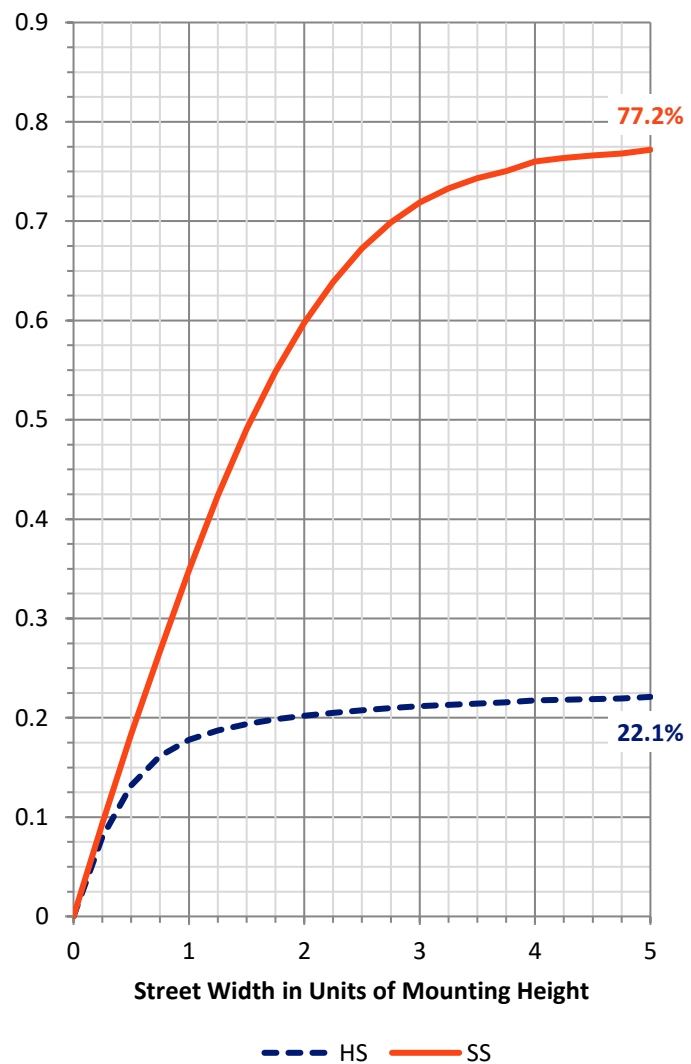
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6389.5	0.0	6389.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21874.5	0.0	21874.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	28264.0	0.0	28264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	1.0
10°-20°	967.6	3.4
20°-30°	1683.2	6.0
30°-40°	2412.9	8.5
40°-50°	3397.5	12.0
50°-60°	5204.0	18.4
60°-70°	7538.7	26.7
70°-80°	6020.1	21.3
80°-90°	749.8	2.7
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°	28264.0	100.0
0°-180°	28264.0	100.0

Coefficient of Utilization



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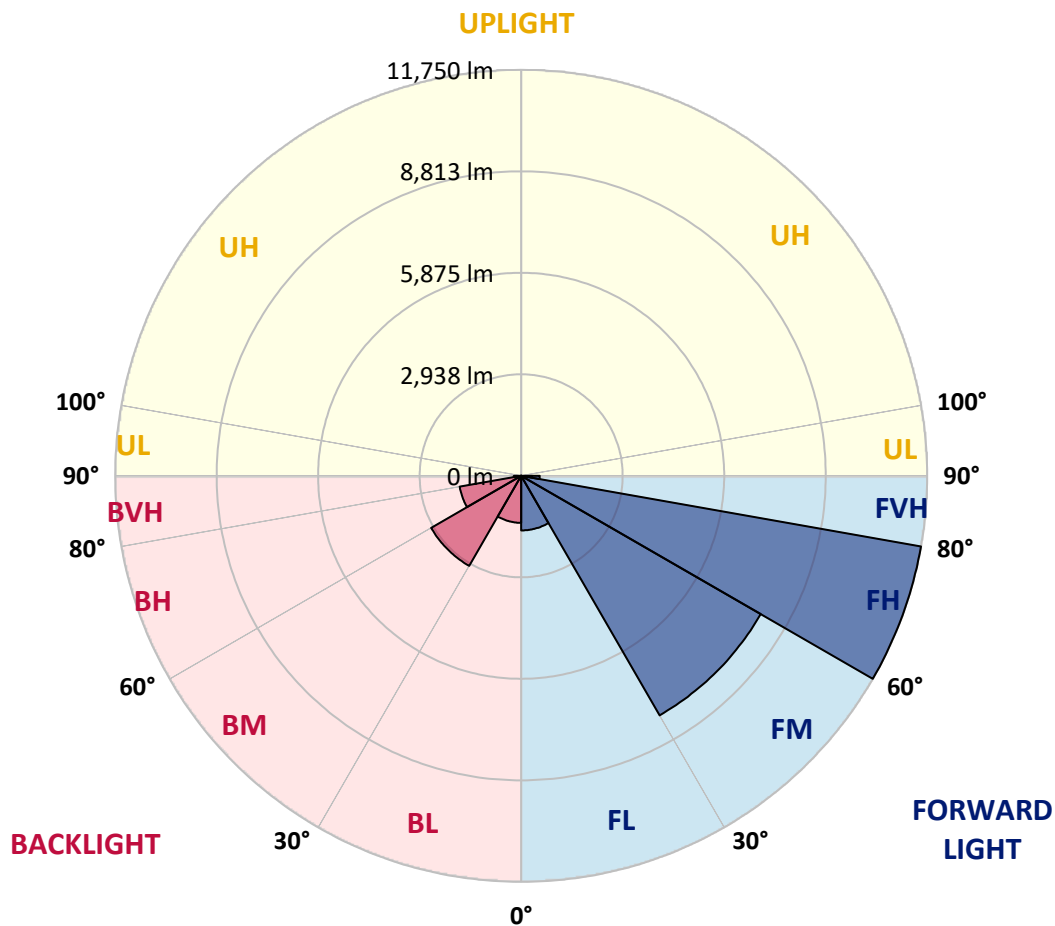
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1580.6	5.6			
FM	(30°-60°)	8005.8	28.3			
FH	(60°-80°)	11750.2	41.6			G4/12000
FVH	(80°-90°)	537.9	1.9			G4/750
BL	(0°-30°)	1360.4	4.8	B3/2500		
BM	(30°-60°)	3008.6	10.6	B3/5000		
BH	(60°-80°)	1808.7	6.4	B3/2500		G3/2500
BVH	(80°-90°)	211.9	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3
2.5°	2963.0	2982.3	2964.4	2948.1	2940.6	2921.3	2919.8	2907.9	2900.4	2879.6	2873.6
5°	3169.9	3195.2	3165.5	3132.7	3102.9	3055.3	3049.3	3015.1	2976.4	2931.7	2906.4
7.5°	3403.7	3426.0	3391.8	3342.6	3290.5	3211.6	3210.1	3147.6	3086.5	3010.6	2967.4
10°	3607.7	3637.4	3591.3	3524.3	3458.8	3369.4	3359.0	3287.5	3210.1	3111.8	3046.3
12.5°	3787.8	3808.7	3764.0	3682.1	3606.2	3516.8	3503.4	3424.5	3338.2	3226.5	3143.1
15°	3930.8	3957.6	3898.0	3810.2	3729.8	3641.9	3630.0	3558.5	3472.2	3354.5	3247.3
17.5°	4024.6	4046.9	3985.8	3887.6	3810.2	3737.2	3728.3	3668.7	3592.8	3473.7	3359.0
20°	4060.3	4084.1	4020.1	3920.3	3848.9	3792.3	3787.8	3744.6	3692.5	3583.8	3467.7
22.5°	4096.0	4118.4	4035.0	3930.8	3868.2	3832.5	3831.0	3802.7	3781.9	3692.5	3579.4
25°	4240.5	4246.4	4134.7	3984.4	3895.0	3863.8	3862.3	3860.8	3869.7	3799.7	3700.0
27.5°	4365.5	4364.0	4268.7	4127.3	3988.8	3923.3	3921.8	3936.7	3965.0	3906.9	3825.0
30°	4548.7	4532.3	4419.1	4271.7	4145.2	4043.9	4035.0	4021.6	4043.9	3997.8	3950.1
32.5°	4937.3	4885.2	4702.0	4440.0	4274.7	4197.3	4185.4	4102.0	4110.9	4082.6	4058.8
35°	5494.1	5425.6	5181.5	4758.6	4435.5	4325.3	4319.4	4213.7	4195.8	4170.5	4179.4
37.5°	6156.7	6071.8	5787.4	5220.2	4712.4	4474.2	4465.3	4370.0	4297.0	4270.2	4320.9
40°	6822.2	6715.0	6479.8	5783.0	5120.4	4722.9	4694.6	4550.1	4466.8	4422.1	4529.3
42.5°	7468.4	7379.1	7178.1	6414.3	5623.7	5086.2	5023.6	4776.5	4713.9	4672.2	4865.8
45°	8040.2	7959.8	7812.4	7088.8	6213.3	5580.5	5519.4	5115.9	5096.6	5096.6	5376.5
47.5°	8504.7	8486.9	8330.5	7776.6	6908.6	6143.3	6037.6	5587.9	5640.0	5720.4	6101.6
50°	9019.9	8970.8	8804.0	8454.1	7726.0	6788.0	6701.6	6167.1	6362.2	6582.5	7149.8
52.5°	9493.4	9520.2	9334.1	9159.9	8649.2	7507.1	7355.3	6850.5	7271.9	7636.7	8378.2
55°	9980.3	9981.7	9929.6	9905.8	9617.0	8302.2	8135.5	7672.4	8342.4	8795.1	9810.5
57.5°	10437.3	10440.3	10517.8	10727.7	10739.6	9219.4	9030.3	8681.9	9532.1	9993.7	11287.5
60°	10845.3	10866.2	11077.6	11568.9	11726.8	10270.6	10091.9	9874.5	10761.9	11226.5	12840.5
62.5°	10982.3	11058.2	11528.7	12227.0	12702.0	11560.0	11384.3	11254.8	12054.3	12486.1	14138.8
65°	10750.0	10924.2	11834.0	12770.5	13705.5	13092.1	12917.9	12776.4	13397.3	13803.8	15204.9
67.5°	10179.8	10404.6	11816.1	13340.7	14923.5	14935.4	14773.1	14441.1	14837.1	14993.5	15551.8
70°	8677.4	9013.9	10775.3	13553.7	16321.6	17456.1	17299.8	16445.2	16273.9	15517.6	14575.1
72.5°	5590.9	6043.5	7934.5	11801.2	16632.8	19828.0	19819.1	18254.2	16728.0	14499.1	11689.5
75°	2039.8	2316.8	3686.6	7407.4	13961.6	19707.4	19765.5	17944.5	15270.4	11199.7	7282.3
77.5°	743.0	813.0	1203.0	2846.8	8586.6	15812.4	15933.0	14345.8	10869.1	5620.7	2885.5
80°	390.1	428.8	616.4	1104.8	3679.1	9390.6	9579.7	8525.6	5108.5	1692.9	865.1
82.5°	215.9	233.8	345.4	600.0	1657.2	4015.6	4128.8	3367.9	1797.1	717.7	357.3
85°	116.1	123.6	162.3	327.6	810.0	1392.1	1423.4	1006.5	716.2	421.4	172.7
87.5°	34.2	41.7	53.6	104.2	317.1	312.7	320.1	199.5	282.9	212.9	56.6
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°	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3
2.5°	2864.7	2860.2	2843.8	2836.4	2827.5	2826.0	2833.4	2834.9	2836.4	2837.9	2843.8
5°	2891.5	2876.6	2861.7	2852.8	2855.8	2857.2	2872.1	2882.6	2890.0	2896.0	2898.9
7.5°	2943.6	2931.7	2906.4	2904.9	2909.4	2922.8	2942.1	2965.9	2979.3	2989.8	2992.7
10°	3021.0	2998.7	2968.9	2973.4	2982.3	3001.7	3041.9	3061.2	3083.6	3102.9	3098.4
12.5°	3099.9	3080.6	3046.3	3049.3	3064.2	3098.4	3137.2	3161.0	3175.9	3190.8	3196.7
15°	3202.7	3168.4	3131.2	3131.2	3158.0	3195.2	3213.1	3232.5	3241.4	3257.8	3263.7
17.5°	3308.4	3263.7	3214.6	3211.6	3244.4	3262.2	3272.7	3275.6	3278.6	3296.5	3302.4
20°	3414.1	3365.0	3295.0	3289.0	3296.5	3293.5	3292.0	3289.0	3293.5	3315.8	3324.8
22.5°	3518.3	3461.7	3365.0	3338.2	3317.3	3289.0	3287.5	3286.1	3289.0	3311.4	3326.3
25°	3640.4	3571.9	3442.4	3362.0	3292.0	3253.3	3257.8	3259.3	3262.2	3280.1	3303.9
27.5°	3772.9	3697.0	3513.9	3354.5	3228.0	3201.2	3193.7	3198.2	3208.6	3236.9	3265.2
30°	3905.4	3816.1	3579.4	3324.8	3147.6	3110.4	3086.5	3097.0	3129.7	3158.0	3189.3
32.5°	4026.0	3936.7	3631.5	3259.3	3044.8	2986.8	2955.5	2968.9	3001.7	3012.1	3049.3
35°	4167.5	4066.2	3653.8	3155.0	2933.2	2843.8	2802.2	2782.8	2799.2	2788.8	2821.5
37.5°	4325.3	4219.6	3650.8	3018.0	2802.2	2699.4	2641.3	2568.4	2534.1	2498.4	2520.7
40°	4559.1	4407.2	3615.1	2852.8	2639.9	2546.1	2441.8	2318.3	2240.8	2170.8	2175.3
42.5°	4877.7	4667.8	3549.6	2671.1	2456.7	2368.9	2227.4	2083.0	1960.9	1844.8	1834.4
45°	5352.7	5008.7	3467.7	2477.6	2258.7	2172.3	2019.0	1856.7	1718.2	1569.3	1551.5
47.5°	6037.6	5467.3	3390.3	2257.2	2050.2	1971.3	1832.9	1682.5	1518.7	1374.3	1357.9
50°	6978.6	6125.4	3318.8	2042.8	1844.8	1785.2	1675.0	1521.7	1356.4	1240.3	1232.8
52.5°	8175.7	7020.3	3289.0	1835.8	1652.7	1630.4	1542.5	1399.6	1243.3	1145.0	1137.5
55°	9550.0	8090.8	3289.0	1637.8	1484.5	1491.9	1430.9	1298.3	1162.8	1075.0	1066.1
57.5°	10952.5	9174.7	3229.5	1454.7	1341.5	1372.8	1334.1	1217.9	1095.8	1005.0	990.1
60°	12244.9	10083.0	2988.3	1287.9	1215.0	1264.1	1238.8	1139.0	990.1	914.2	902.3
62.5°	13238.0	10595.2	2523.7	1155.4	1110.7	1167.3	1153.9	1034.8	970.8	939.5	929.1
65°	13735.3	10511.8	1929.6	1037.8	1022.9	1110.7	1082.4	1078.0	1027.4	991.6	979.7
67.5°	13430.1	9794.1	1399.6	951.4	972.3	1058.6	1167.3	1185.2	1091.4	1021.4	1009.5
70°	12091.5	8495.8	1042.2	869.5	908.2	1060.1	1331.1	1240.3	1070.5	988.6	975.2
72.5°	9198.6	6335.4	808.5	783.2	824.9	1067.6	1404.1	1215.0	1011.0	1092.9	1083.9
75°	5260.4	3478.1	649.2	677.5	720.6	997.6	1366.8	1149.4	964.8	1003.5	1003.5
77.5°	2005.6	1337.1	536.0	573.2	579.2	871.0	1307.3	1145.0	918.7	896.3	817.4
80°	695.3	522.6	443.7	455.6	448.2	774.2	1253.7	996.1	751.9	673.0	650.7
82.5°	284.4	260.6	351.4	336.5	318.6	601.5	1012.5	814.4	614.9	543.5	537.5
85°	123.6	165.3	232.3	204.0	184.6	416.9	811.5	689.4	519.6	448.2	446.7
87.5°	25.3	62.5	98.3	92.3	95.3	278.4	576.2	489.9	367.8	275.5	215.9
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)