

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: P950241

Luminaire Tested: **GALN-SB4D-730-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-730-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41540 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 293.6
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

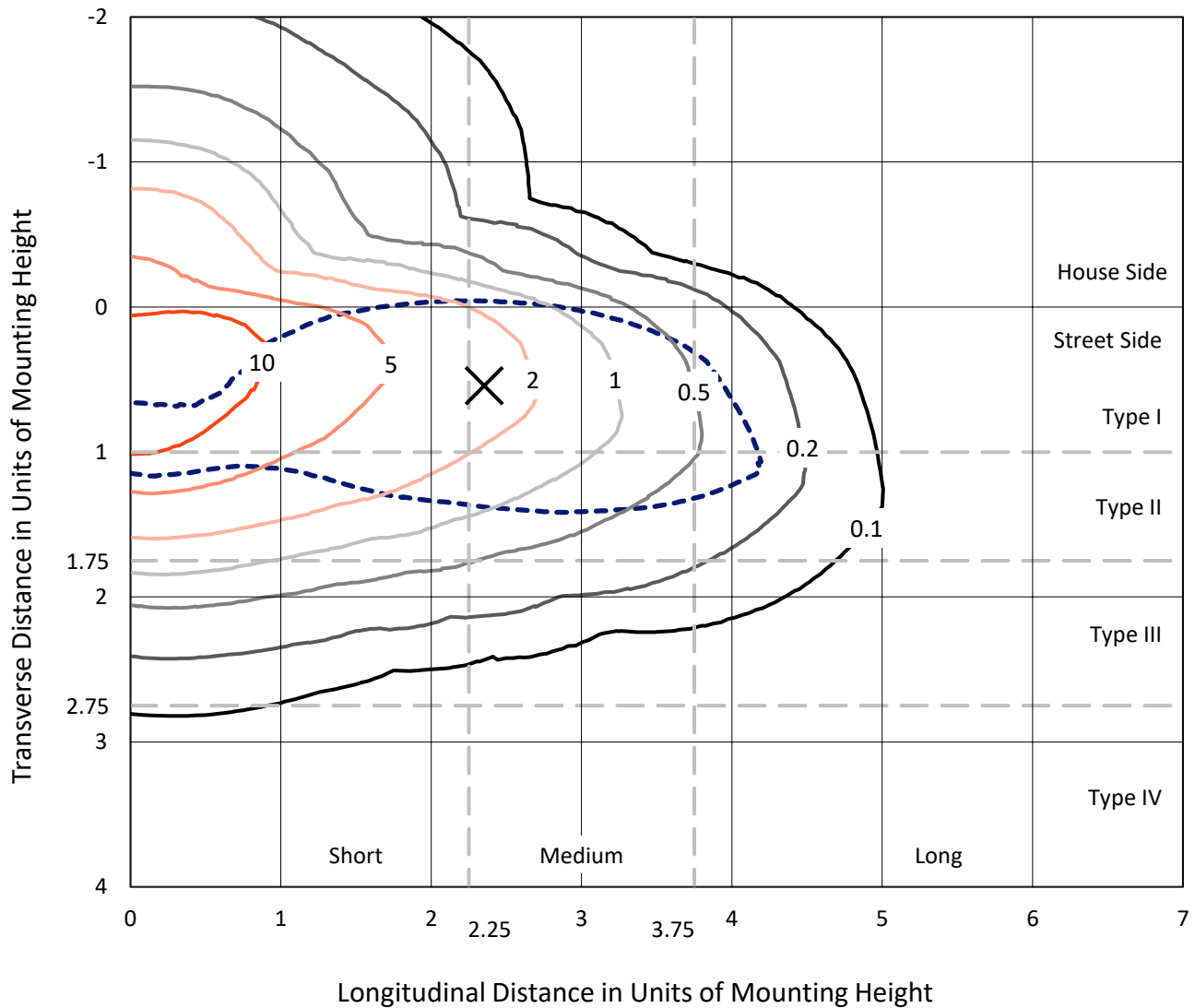


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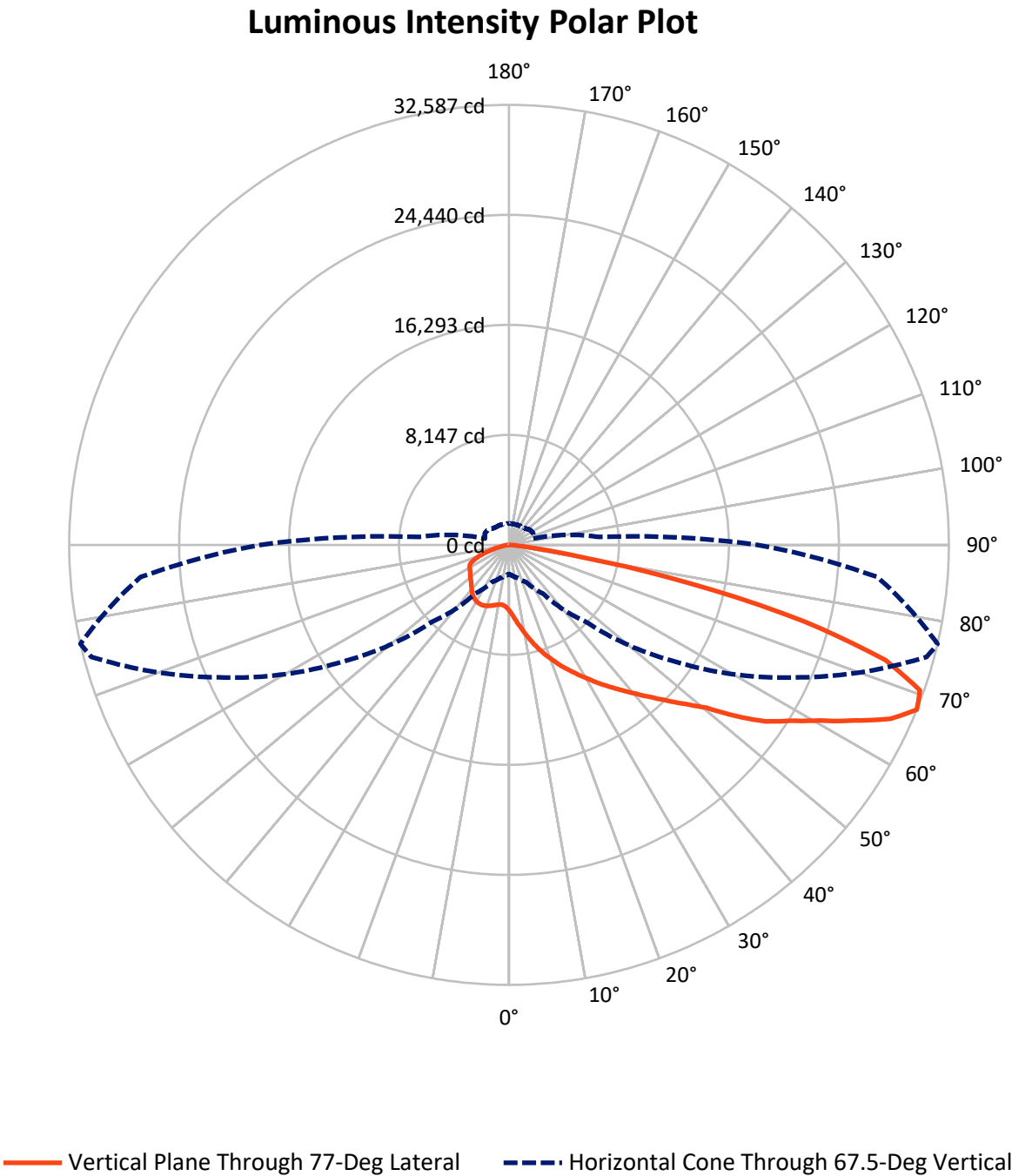
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
Type II - Medium - N/A

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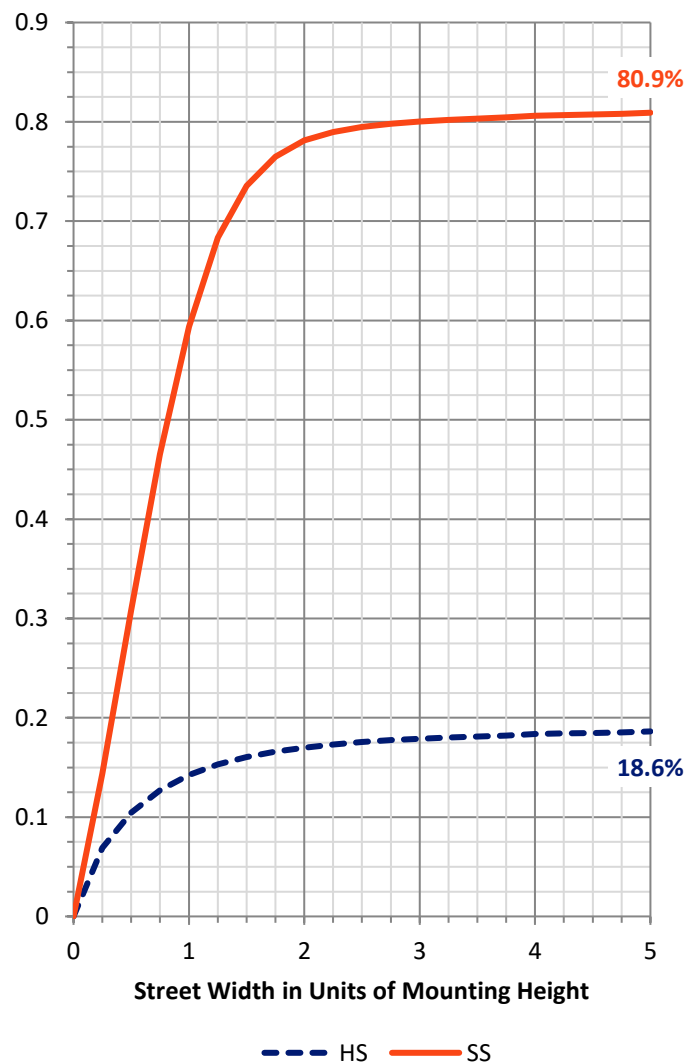
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7857.7	0.0	7857.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	33682.3	0.0	33682.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	41540.0	0.0	41540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.4	1.3
10°-20°	1876.8	4.5
20°-30°	3543.7	8.5
30°-40°	5708.8	13.7
40°-50°	7808.6	18.8
50°-60°	8808.1	21.2
60°-70°	8221.3	19.8
70°-80°	4506.7	10.8
80°-90°	543.6	1.3
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°	41540.0	100.0
0°-180°	41540.0	100.0

Coefficient of Utilization



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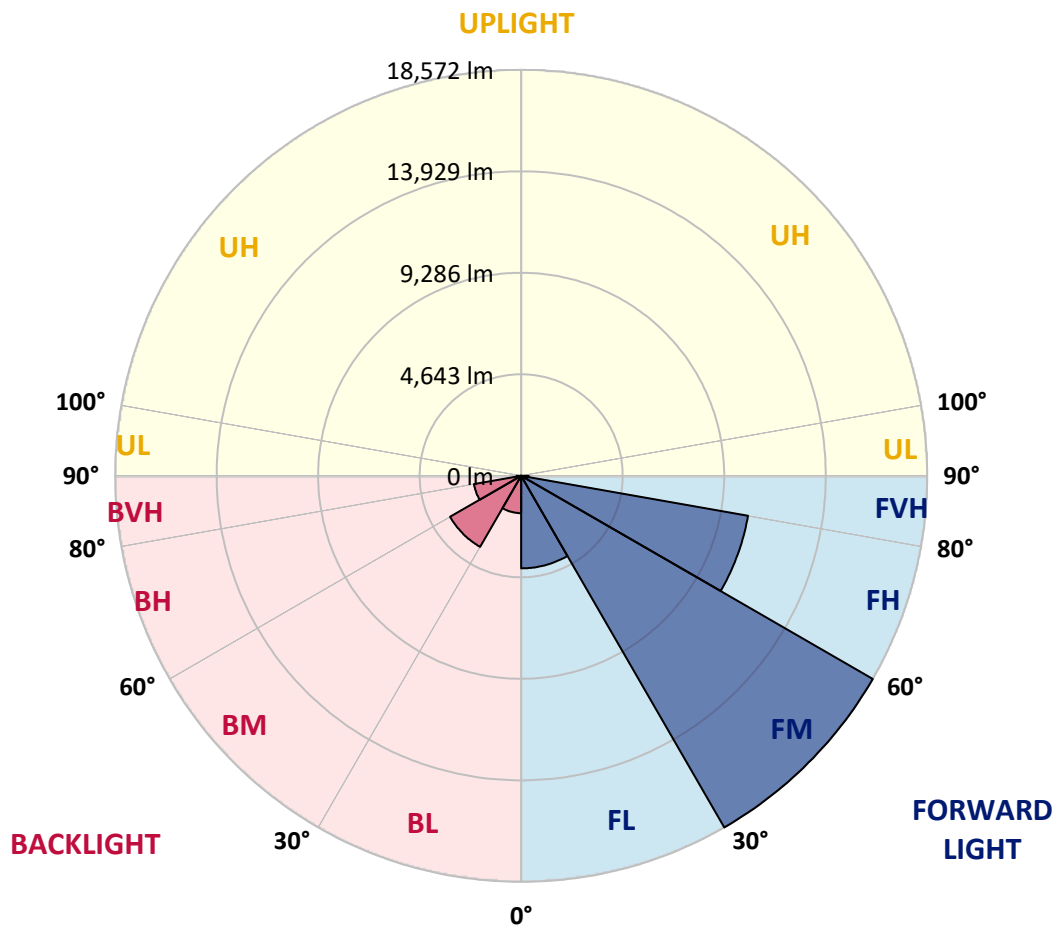
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4234.5	10.2			
FM	(30°-60°)	18572.1	44.7			
FH	(60°-80°)	10535.8	25.4			G4/12000
FVH	(80°-90°)	340.0	0.8			G3/500
BL	(0°-30°)	1708.4	4.1	B3/2500		
BM	(30°-60°)	3753.4	9.0	B3/5000		
BH	(60°-80°)	2192.2	5.3	B3/2500		G3/2500
BVH	(80°-90°)	203.6	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9
2.5°	6102.6	6145.5	6091.9	6091.9	5911.8	5817.4	5637.3	5500.1	5253.5	5210.6	5047.6
5°	7213.3	7266.9	7191.9	7159.7	6947.4	6752.3	6450.0	6151.9	5712.3	5667.3	5283.5
7.5°	8073.2	8141.8	8075.3	8041.0	7852.3	7633.6	7279.8	6863.8	6244.1	6156.2	5600.8
10°	8774.4	8785.1	8763.6	8776.5	8628.6	8448.4	8086.1	7601.4	6827.4	6707.3	5984.7
12.5°	9171.1	9220.4	9263.3	9340.5	9314.7	9203.2	8877.3	8298.3	7444.9	7290.5	6402.8
15°	9357.6	9443.4	9539.9	9717.8	9861.5	9889.4	9640.7	9046.7	8073.2	7886.6	6825.2
17.5°	9424.1	9505.6	9657.8	9915.1	10223.9	10431.9	10320.4	9773.6	8695.0	8480.6	7269.1
20°	9760.7	9784.3	9876.5	10121.0	10455.5	10800.7	10884.3	10472.6	9310.4	9068.1	7728.0
22.5°	10481.2	10434.0	10459.8	10571.3	10811.4	11145.9	11336.8	11090.2	9943.0	9664.2	8191.1
25°	11671.3	11534.0	11396.8	11268.2	11390.4	11579.1	11795.6	11707.7	10605.6	10251.8	8658.6
27.5°	13174.4	13007.2	12704.8	12282.4	12134.4	12200.9	12297.4	12280.3	11218.8	10860.7	9141.0
30°	14654.0	14458.8	14098.6	13487.5	13097.2	12921.4	12848.5	12799.2	11885.7	11504.0	9627.8
32.5°	15835.5	15681.1	15327.3	14643.2	14077.2	13777.0	13534.7	13358.8	12582.6	12200.9	10142.4
35°	16869.0	16725.3	16320.1	15573.9	14958.4	14639.0	14321.6	13946.4	13307.4	12921.4	10695.6
37.5°	17812.5	17668.8	17113.4	16337.2	15717.5	15496.7	15213.6	14576.8	14034.3	13669.7	11281.0
40°	18408.6	18376.4	17857.5	16978.4	16335.1	16225.7	16131.4	15308.0	14840.5	14501.7	11924.3
42.5°	18560.8	18631.6	18219.9	17497.3	16884.0	16796.1	17017.0	16135.7	15745.4	15421.6	12653.4
45°	18194.2	18397.9	18127.7	17636.6	17274.3	17227.1	17801.8	17040.5	16746.8	16450.9	13532.5
47.5°	17265.7	17610.9	17499.4	17430.8	17379.3	17583.0	18492.2	18001.2	17881.1	17623.8	14536.0
50°	15391.6	16045.6	16240.7	16673.9	17171.3	17859.6	19120.5	19049.7	19206.3	18946.8	15758.3
52.5°	12151.6	13052.2	14184.4	15269.4	16532.3	17767.4	19810.9	20555.0	21215.4	21073.9	17701.0
55°	10030.9	10436.2	11306.8	13296.6	15293.0	17379.3	20121.9	21770.8	23209.6	23083.1	19174.1
57.5°	8401.3	8763.6	9299.7	10961.5	13418.9	16498.0	20314.8	22512.7	24575.5	24562.6	20627.9
60°	6653.7	7037.5	7586.4	8763.6	11229.6	14975.6	20272.0	23357.6	26318.8	26426.0	22401.2
62.5°	4680.9	5103.4	5712.3	6810.2	8993.1	13002.9	19397.1	23968.7	28370.9	28662.5	24534.8
65°	3077.0	3355.8	3814.7	4762.4	6700.9	10466.2	17726.7	24048.0	30566.6	31059.8	26537.5
67.5°	2157.1	2264.4	2534.5	3049.2	4417.2	8026.0	15065.7	23226.8	32031.2	32586.5	27406.0
70°	1683.3	1736.9	1874.1	2079.9	2774.7	5397.1	11544.8	21091.1	31718.1	32297.0	26498.9
72.5°	1453.8	1505.3	1556.7	1582.5	1861.2	3332.2	7820.2	17634.5	28769.7	29162.1	23040.2
75°	1318.7	1331.6	1374.5	1365.9	1419.5	2161.4	4513.7	12848.5	22699.3	22564.2	17008.4
77.5°	1108.6	1125.7	1196.5	1185.8	1260.8	1477.4	2343.7	8291.9	14716.1	13798.4	9467.0
80°	939.2	947.8	1025.0	1012.1	1095.7	1070.0	1196.5	4226.4	6242.0	5287.8	2729.7
82.5°	325.9	403.1	782.7	806.2	836.3	647.6	690.5	1724.0	1906.3	1460.2	572.5
85°	158.7	169.4	398.8	566.1	563.9	325.9	336.7	615.4	600.4	471.7	190.8
87.5°	25.7	32.2	47.2	220.9	175.8	85.8	115.8	120.1	124.4	107.2	42.9
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°	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9
2.5°	4927.5	4820.3	4595.2	4387.2	4224.2	4067.7	3979.8	3904.7	3861.8	3853.3	3853.3
5°	5060.5	4839.6	4430.1	4084.8	3859.7	3692.4	3604.5	3548.8	3520.9	3503.7	3501.6
7.5°	5251.3	4927.5	4344.3	3951.9	3716.0	3595.9	3550.9	3542.3	3540.2	3542.3	3548.8
10°	5515.1	5071.2	4335.7	3919.7	3722.5	3656.0	3653.8	3656.0	3664.6	3666.7	3668.9
12.5°	5800.3	5219.2	4370.0	3947.6	3803.9	3767.5	3761.1	3758.9	3765.3	3769.6	3771.8
15°	6111.2	5414.3	4427.9	4007.6	3894.0	3855.4	3849.0	3836.1	3834.0	3831.8	3829.7
17.5°	6430.7	5607.3	4492.3	4072.0	3951.9	3898.3	3874.7	3844.7	3821.1	3814.7	3821.1
20°	6754.5	5798.1	4537.3	4104.1	3956.2	3881.1	3834.0	3782.5	3741.8	3718.2	3726.7
22.5°	7099.7	5997.5	4565.2	4095.6	3917.6	3814.7	3728.9	3668.9	3606.7	3565.9	3568.1
25°	7436.3	6171.2	4563.0	4050.5	3842.5	3711.7	3602.4	3525.2	3439.4	3396.5	3396.5
27.5°	7760.1	6327.7	4509.4	3971.2	3735.3	3589.5	3458.7	3366.5	3282.9	3242.1	3240.0
30°	8094.6	6458.6	4425.8	3855.4	3608.8	3448.0	3304.3	3225.0	3149.9	3111.3	3109.2
32.5°	8427.0	6578.6	4307.8	3711.7	3463.0	3308.6	3167.1	3094.2	3049.2	3049.2	3051.3
35°	8778.7	6662.3	4151.3	3544.5	3308.6	3160.7	3049.2	3006.3	3002.0	2976.3	2969.8
37.5°	9149.6	6715.9	3960.5	3372.9	3156.4	3017.0	2982.7	2931.2	2888.3	2832.6	2824.0
40°	9539.9	6769.5	3731.0	3195.0	2995.5	2918.4	2903.3	2834.7	2712.5	2575.3	2556.0
42.5°	10013.8	6805.9	3493.0	3017.0	2826.2	2800.4	2821.9	2703.9	2508.8	2405.9	2408.0
45°	10562.7	6866.0	3274.3	2841.2	2652.5	2652.5	2742.5	2588.1	2427.3	2363.0	2373.7
47.5°	11274.6	7005.3	3070.6	2648.2	2491.6	2534.5	2566.7	2448.8	2358.7	2279.4	2277.2
50°	12303.8	7339.8	2860.5	2453.0	2369.4	2455.2	2410.2	2341.5	2236.5	2172.1	2165.7
52.5°	13581.8	7537.1	2673.9	2277.2	2264.4	2350.1	2285.8	2221.5	2142.1	2056.4	2039.2
55°	14452.4	7573.6	2517.4	2148.6	2193.6	2185.0	2161.4	2103.5	2060.6	1947.0	1949.1
57.5°	15425.9	7646.5	2388.7	2071.4	2148.6	2054.2	2045.6	1996.3	1940.6	1863.4	1837.6
60°	16590.2	7760.1	2277.2	2041.3	2110.0	1968.4	1925.6	1906.3	1850.5	1811.9	1822.6
62.5°	17859.6	7863.0	2163.6	2045.6	2064.9	1884.8	1820.5	1814.1	1779.7	1766.9	1766.9
65°	18725.9	7582.1	2022.0	2041.3	1994.2	1799.0	1717.6	1715.4	1687.5	1683.3	1681.1
67.5°	18423.6	6692.3	1831.2	1981.3	1921.3	1713.3	1623.2	1614.6	1578.2	1580.3	1580.3
70°	16909.7	5422.9	1567.5	1833.4	1831.2	1636.1	1524.6	1496.7	1447.4	1456.0	1464.5
72.5°	14070.7	4018.4	1213.7	1586.8	1687.5	1565.3	1410.9	1365.9	1303.7	1312.3	1310.2
75°	10161.7	2731.8	883.4	1207.2	1468.8	1481.7	1299.4	1222.2	1147.2	1160.1	1164.3
77.5°	5199.9	1548.2	649.7	832.0	1153.6	1346.6	1198.6	1095.7	1078.6	1198.6	1181.5
80°	1696.1	776.2	450.3	583.2	756.9	1102.2	1050.7	932.8	928.5	956.3	821.3
82.5°	506.0	328.1	289.5	383.8	418.1	844.8	907.0	705.5	606.8	639.0	660.4
85°	173.7	158.7	165.1	190.8	199.4	495.3	634.7	467.5	441.7	486.7	480.3
87.5°	40.7	55.8	47.2	42.9	42.9	120.1	246.6	195.1	270.2	180.1	173.7
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)