

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: P943644

Luminaire Tested: **GALN-SB8B-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943644
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-SB8B-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 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: 27467 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 292.8
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



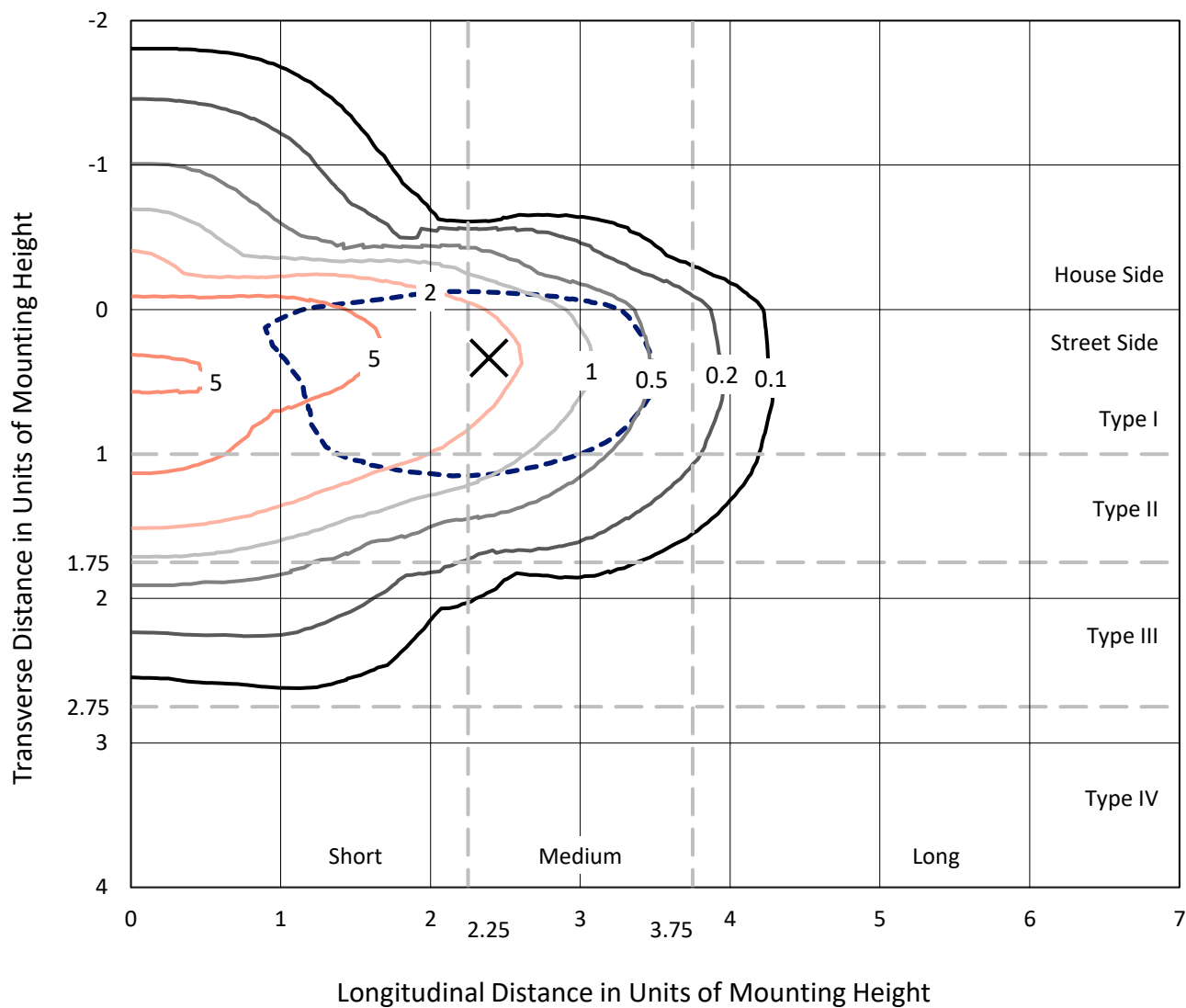
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Iso-Footcandle Lines of Horizontal Illumination

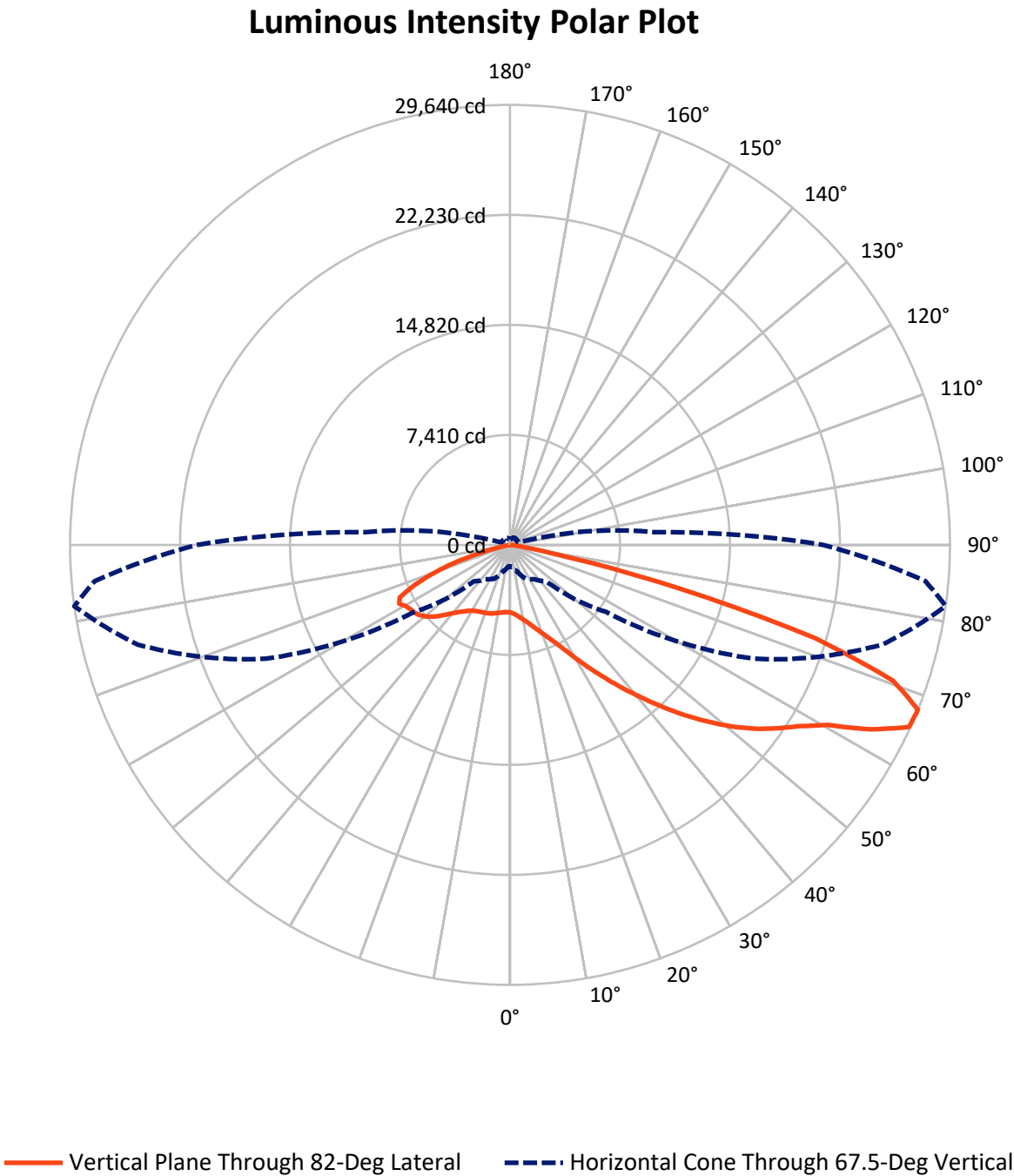
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type II - Medium - N/A

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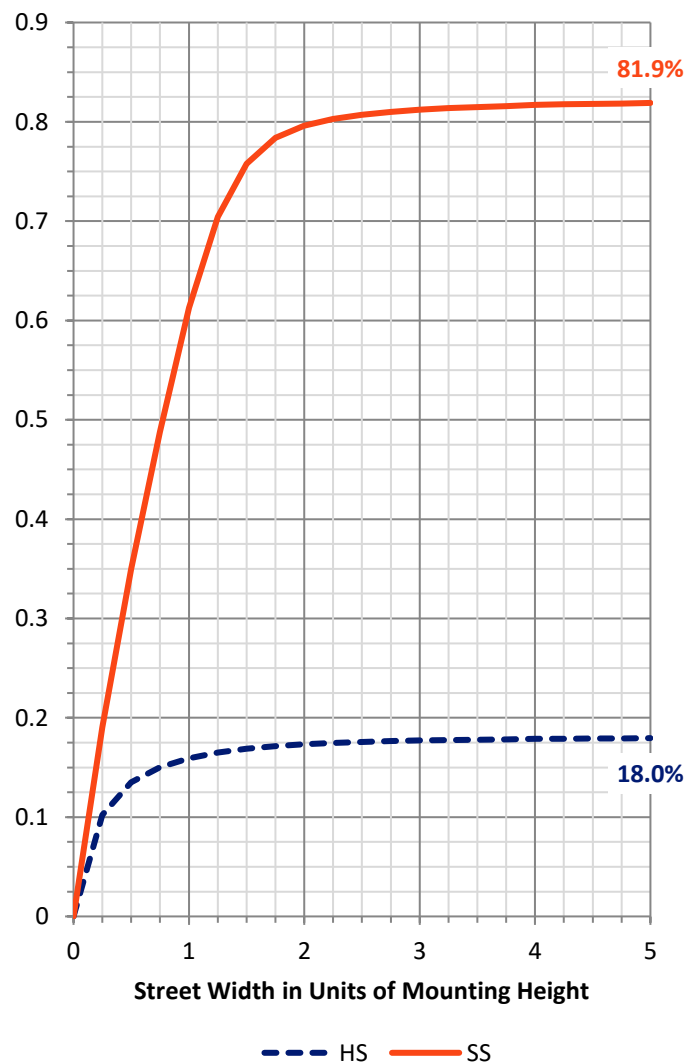
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4975.4	0.0	4975.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22491.6	0.0	22491.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	27467.0	0.0	27467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.4	1.5
10°-20°	1053.5	3.8
20°-30°	1687.3	6.1
30°-40°	2983.7	10.9
40°-50°	5227.8	19.0
50°-60°	6972.4	25.4
60°-70°	6490.9	23.6
70°-80°	2491.2	9.1
80°-90°	154.7	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°	27467.0	100.0
0°-180°	27467.0	100.0

Coefficient of Utilization



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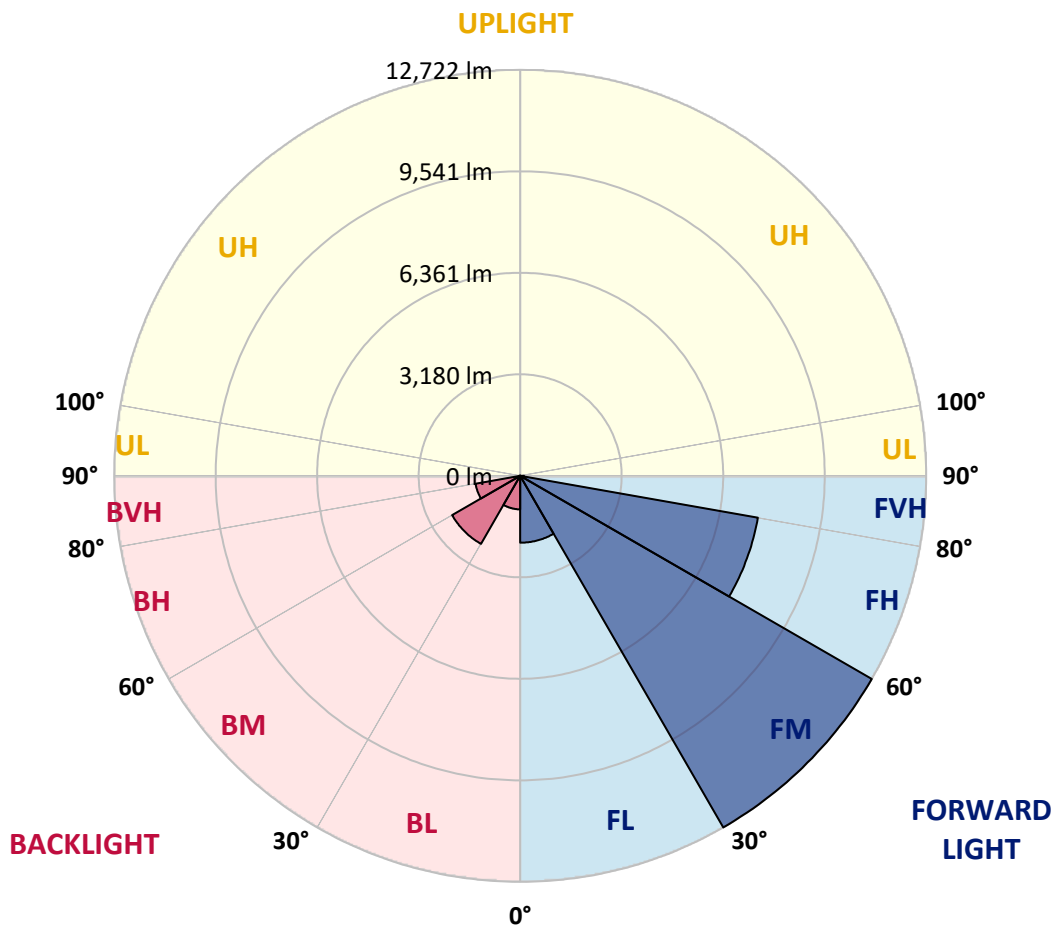
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2095.4	7.6			
FM	(30°-60°)	12721.6	46.3			
FH	(60°-80°)	7562.1	27.5			G4/12000
FVH	(80°-90°)	112.5	0.4			G2/225
BL	(0°-30°)	1050.8	3.8	B3/2500		
BM	(30°-60°)	2462.3	9.0	B2/2500		
BH	(60°-80°)	1420.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	42.2	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4550.4	4550.4	4550.4	4550.4	4550.4	4550.4	4550.4	4550.4	4550.4	4550.4	4550.4
2.5°	4809.4	4837.1	4821.3	4813.4	4799.5	4779.7	4763.9	4714.5	4663.1	4629.5	4617.6
5°	4906.3	4934.0	4932.0	4939.9	4949.8	4955.8	4951.8	4896.4	4823.3	4765.9	4732.3
7.5°	4823.3	4854.9	4880.6	4920.2	4989.4	5062.5	5098.1	5086.3	5011.1	4932.0	4890.5
10°	4587.9	4621.5	4682.8	4775.8	4922.1	5080.3	5212.8	5274.1	5226.7	5139.7	5082.3
12.5°	4156.8	4190.4	4311.1	4512.8	4758.0	5032.9	5286.0	5450.1	5462.0	5375.0	5307.8
15°	3672.3	3705.9	3834.5	4087.6	4461.4	4902.4	5325.6	5636.0	5740.8	5665.7	5584.6
17.5°	3371.7	3401.4	3498.3	3702.0	4091.6	4641.3	5311.7	5833.8	6073.1	6013.7	5916.8
20°	3280.8	3306.5	3352.0	3494.3	3818.7	4370.4	5220.7	6019.7	6431.0	6397.4	6288.6
22.5°	3377.7	3401.4	3415.2	3478.5	3682.2	4192.4	5106.0	6209.5	6846.3	6850.2	6717.8
25°	3601.1	3624.9	3609.0	3648.6	3737.6	4137.0	5062.5	6433.0	7368.4	7411.9	7261.6
27.5°	3969.0	3970.9	3933.4	3931.4	3945.2	4220.1	5108.0	6672.3	8026.9	8108.0	7922.1
30°	4706.6	4676.9	4532.6	4376.3	4305.1	4469.3	5234.6	6955.1	8804.1	8948.4	8715.1
32.5°	5843.7	5800.2	5535.2	5161.4	4785.7	4870.7	5462.0	7277.4	9650.5	9911.5	9626.7
35°	7077.7	7065.8	6788.9	6233.3	5576.7	5442.2	5831.8	7700.6	10574.0	10989.3	10651.1
37.5°	8224.6	8218.7	8060.5	7405.9	6607.0	6239.2	6425.1	8254.3	11562.8	12163.9	11764.5
40°	9272.8	9290.5	9132.3	8547.0	7742.1	7261.6	7231.9	8938.5	12662.3	13443.4	12968.8
42.5°	10178.5	10198.2	10038.1	9605.0	8863.4	8392.7	8222.7	9777.0	13736.1	14817.8	14256.2
45°	10793.5	10916.1	10892.4	10546.3	10014.3	9525.9	9413.2	10829.1	14960.2	16275.3	15616.7
47.5°	10967.5	11080.2	11258.2	11305.7	10981.4	10500.8	10635.3	12096.7	16198.1	17734.7	16985.2
50°	10538.4	10643.2	11013.0	11505.4	11730.9	11582.5	11823.8	13455.3	17465.8	19190.2	18328.0
52.5°	9692.0	9798.8	10265.5	11044.6	11964.2	12430.9	13016.3	14794.1	18693.8	20568.5	19599.5
55°	8467.9	8580.6	9179.8	10061.8	11519.3	12780.9	14011.0	16130.9	19819.0	21808.5	20746.5
57.5°	6802.8	6885.8	7508.8	8742.8	10400.0	12432.9	14744.6	17590.3	20879.0	23026.6	21883.6
60°	4433.7	4506.8	5230.6	6607.0	8545.0	11270.1	14891.0	19217.9	22287.0	24610.7	23416.2
62.5°	2948.5	2998.0	3427.1	4437.6	6017.7	9037.4	14034.7	20517.1	24351.6	27367.4	26044.4
65°	2023.0	2072.5	2501.6	3205.6	3887.9	5978.1	11572.6	20345.1	26222.4	29556.5	27992.3
67.5°	1443.6	1485.1	1849.0	2513.5	2814.1	3472.6	7845.0	18146.0	25953.4	29639.6	28097.1
70°	1034.3	1058.0	1358.6	1957.8	2236.6	2086.3	4362.5	13878.5	22724.1	27369.4	25957.4
72.5°	723.8	731.7	943.3	1491.1	1801.6	1522.7	2076.4	9253.0	17186.9	21482.2	20123.6
75°	490.4	500.3	634.8	1093.6	1445.6	1162.8	1099.5	4961.7	10089.5	11891.0	10659.0
77.5°	300.6	304.5	409.4	747.5	1081.7	885.9	708.0	2102.1	3903.7	3832.5	3266.9
80°	170.1	170.1	261.0	464.7	737.6	571.5	496.4	893.9	1236.0	1085.7	957.1
82.5°	94.9	96.9	189.8	288.7	488.5	338.2	272.9	413.3	533.9	472.6	411.3
85°	39.6	43.5	116.7	136.5	233.4	168.1	110.7	174.0	197.8	176.0	128.5
87.5°	4.0	5.9	35.6	25.7	27.7	33.6	15.8	33.6	27.7	27.7	19.8
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°	4550.4	4550.4	4550.4	4550.4	4550.4	4550.4	4550.4	4550.4	4550.4	4550.4	4550.4
2.5°	4580.0	4550.4	4475.2	4388.2	4273.5	4218.1	4143.0	4091.6	4048.1	4052.0	4012.5
5°	4669.0	4593.9	4425.8	4216.1	3955.1	3769.2	3571.5	3435.0	3324.3	3300.5	3247.1
7.5°	4791.6	4673.0	4378.3	4000.6	3559.6	3225.4	2926.8	2735.0	2598.5	2555.0	2511.5
10°	4949.8	4777.8	4317.0	3729.7	3094.9	2669.7	2349.3	2199.0	2106.1	2074.5	2050.7
12.5°	5133.7	4898.4	4235.9	3399.4	2616.3	2207.0	2003.3	1928.1	1898.5	1888.6	1882.6
15°	5365.1	5048.7	4113.3	3007.9	2210.9	1924.2	1837.1	1827.3	1831.2	1827.3	1825.3
17.5°	5640.0	5212.8	3913.6	2604.4	1938.0	1779.8	1748.2	1756.1	1766.0	1764.0	1760.0
20°	5940.6	5375.0	3658.5	2246.5	1752.1	1677.0	1659.2	1667.1	1675.0	1671.0	1669.1
22.5°	6282.7	5549.0	3375.7	1967.7	1627.5	1582.0	1562.3	1564.2	1564.2	1556.3	1552.4
25°	6692.0	5740.8	3079.1	1769.9	1532.6	1497.0	1473.3	1465.4	1453.5	1429.8	1425.8
27.5°	7180.5	5944.5	2794.3	1631.5	1457.5	1423.8	1396.2	1376.4	1346.7	1307.2	1303.2
30°	7730.3	6191.7	2553.0	1544.5	1398.1	1364.5	1332.9	1303.2	1259.7	1210.3	1206.3
32.5°	8376.9	6456.7	2377.0	1487.1	1344.7	1309.1	1271.6	1236.0	1188.5	1139.1	1141.0
35°	9148.2	6777.1	2274.2	1447.6	1303.2	1255.7	1214.2	1174.7	1139.1	1095.6	1091.6
37.5°	9984.7	7117.2	2242.5	1427.8	1275.5	1202.4	1154.9	1127.2	1123.3	1097.5	1095.6
40°	10900.3	7520.6	2266.3	1415.9	1245.9	1150.9	1099.5	1093.6	1103.5	1058.0	1060.0
42.5°	11869.3	7999.2	2305.8	1402.1	1204.3	1099.5	1050.1	1050.1	1042.2	978.9	978.9
45°	12917.4	8550.9	2345.4	1368.5	1154.9	1048.1	1010.5	996.7	963.1	901.8	899.8
47.5°	13973.4	9112.6	2375.0	1307.2	1095.6	1004.6	971.0	939.3	889.9	834.5	832.6
50°	14976.0	9616.8	2343.4	1216.2	1028.3	963.1	927.5	884.0	830.6	793.0	787.1
52.5°	15871.9	10053.9	2208.9	1109.4	957.1	919.6	887.9	842.4	798.9	759.4	755.4
55°	16651.0	10407.9	1971.6	1008.6	893.9	882.0	850.3	793.0	733.7	700.1	696.1
57.5°	17398.5	10676.8	1675.0	925.5	836.5	840.5	793.0	741.6	686.2	650.6	646.7
60°	18393.2	11036.7	1374.4	848.4	775.2	787.1	735.7	698.1	628.9	583.4	577.4
62.5°	19983.2	11596.4	1091.6	753.4	704.0	708.0	686.2	640.7	557.7	504.3	500.3
65°	21244.9	11390.7	860.2	650.6	622.9	628.9	628.9	579.4	490.4	429.1	423.2
67.5°	21102.5	9753.3	686.2	549.8	545.8	549.8	563.6	522.1	435.1	385.6	377.7
70°	19439.4	7757.9	549.8	456.8	474.6	464.7	504.3	476.6	391.6	342.1	336.2
72.5°	15862.0	5588.6	419.2	377.7	363.9	379.7	454.8	429.1	326.3	270.9	265.0
75°	9268.8	2982.2	312.5	298.6	263.0	316.4	403.4	365.8	249.2	199.7	193.8
77.5°	3017.7	1040.2	229.4	219.5	195.8	255.1	344.1	308.5	203.7	158.2	152.3
80°	808.8	314.4	156.2	144.4	126.6	189.8	272.9	245.2	146.3	102.8	100.9
82.5°	324.3	132.5	91.0	81.1	69.2	130.5	215.6	197.8	108.8	65.3	65.3
85°	104.8	43.5	33.6	25.7	31.6	81.1	128.5	134.5	77.1	33.6	25.7
87.5°	13.8	5.9	5.9	7.9	5.9	13.8	39.6	37.6	21.8	4.0	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)