

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: STREETWORKS

Report Number: P323178

Luminaire Tested: **GAN-SA4D-730-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23609 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

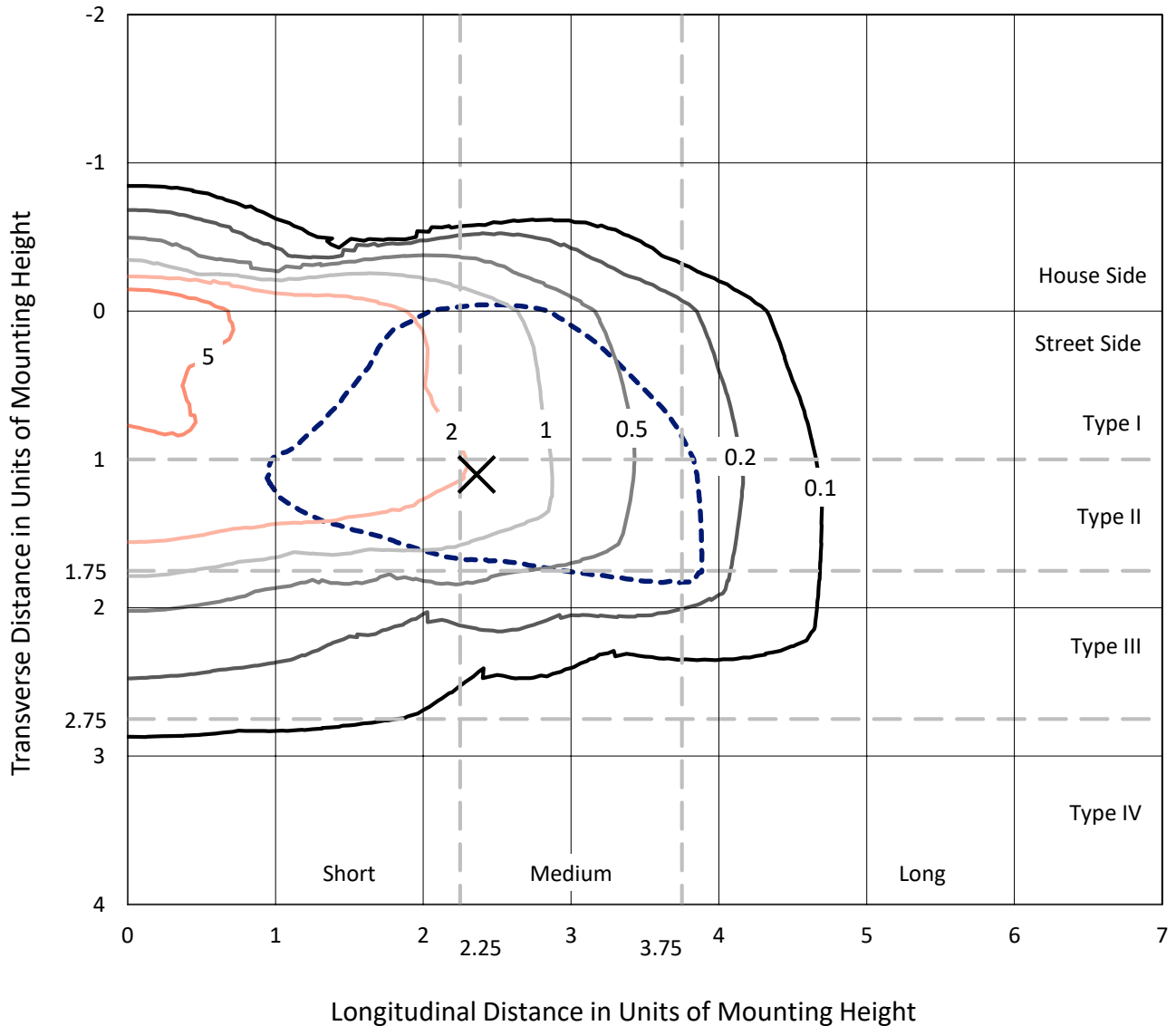
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323178
 CATALOG NUMBER: GAN-SA4D-730-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

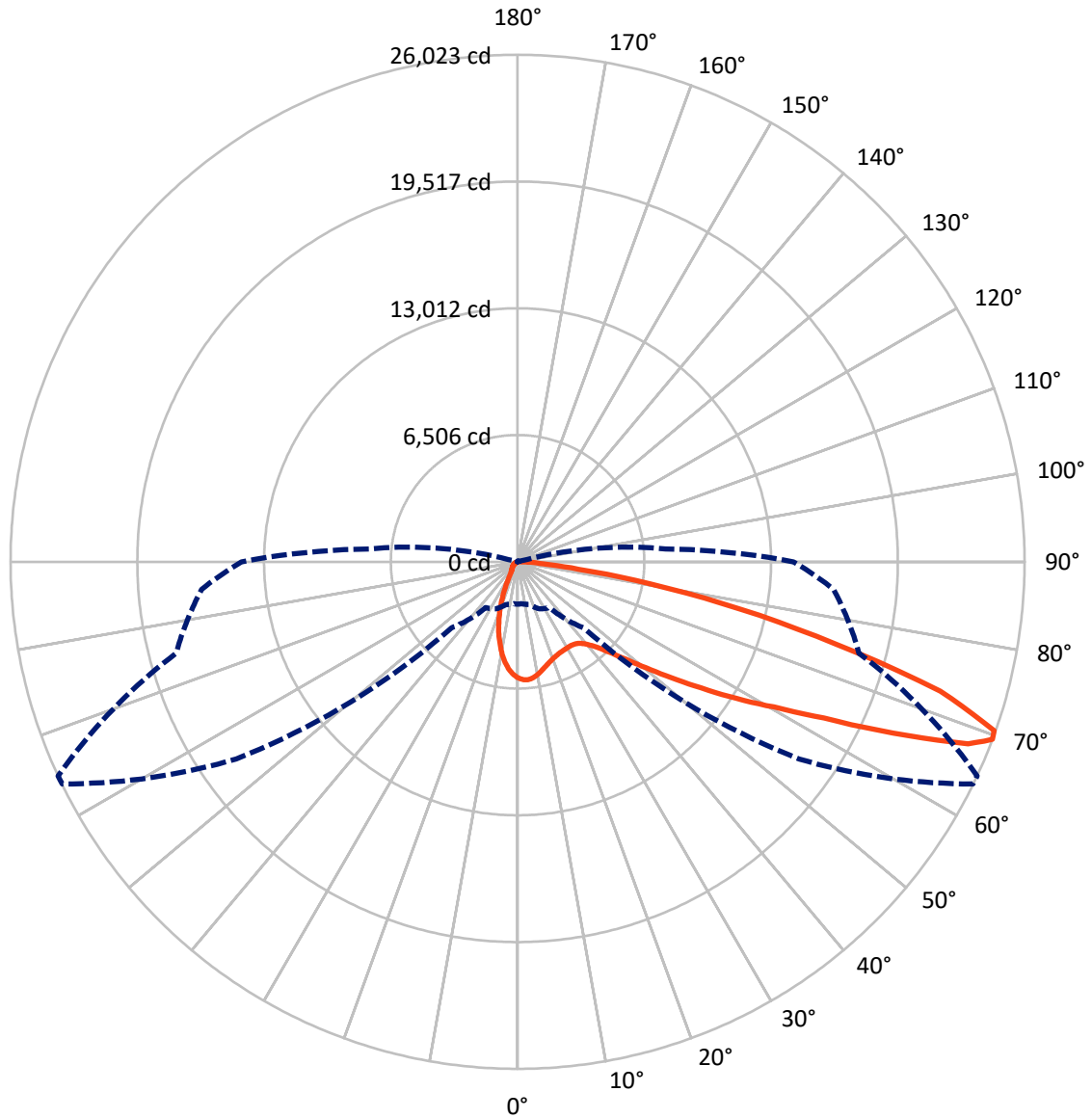
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P323178
CATALOG NUMBER: GAN-SA4D-730-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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 CATALOG NUMBER: GAN-SA4D-730-U-SL2-HSS

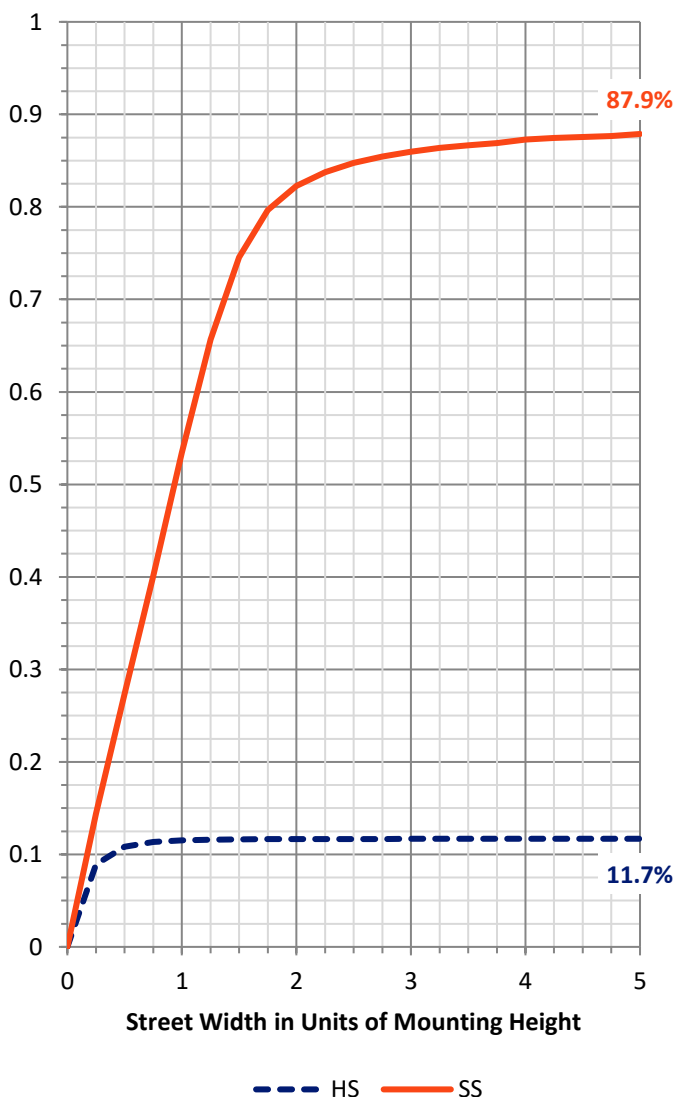
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2783.0	0.0	2783.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	20826.1	0.0	20826.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	23609.0	0.0	23609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.9	2.1
10°-20°	1092.1	4.6
20°-30°	1512.6	6.4
30°-40°	2109.0	8.9
40°-50°	3278.1	13.9
50°-60°	5262.6	22.3
60°-70°	5952.9	25.2
70°-80°	3496.2	14.8
80°-90°	406.7	1.7
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°	23609.0	100.0
0°-180°	23609.0	100.0

Coefficient of Utilization

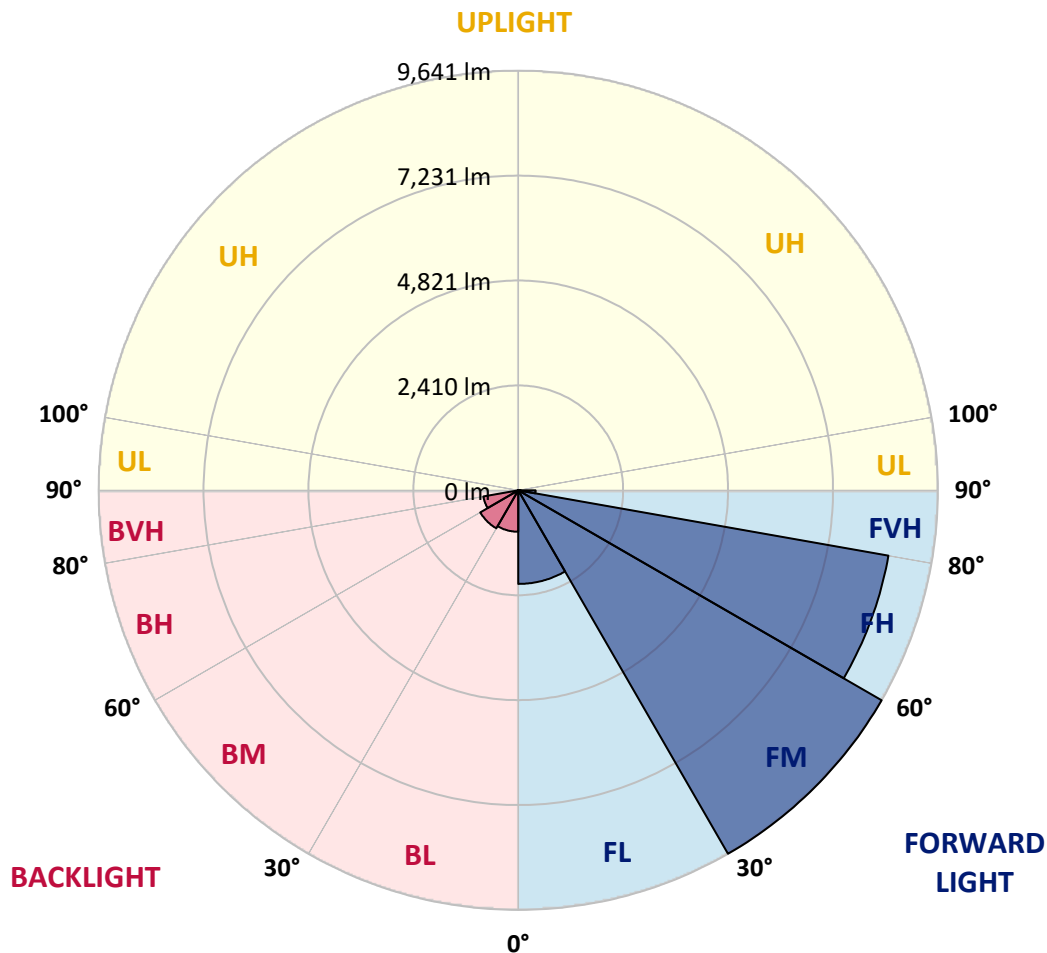


REPORT NUMBER: P323178
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2151.3	9.1			
FM (30°-60°)	9641.2	40.8			
FH (60°-80°)	8635.9	36.6			G4/12000
FVH (80°-90°)	397.6	1.7			G3/500
BL (0°-30°)	952.2	4.0	B2/1000		
BM (30°-60°)	1008.5	4.3	B2/2500		
BH (60°-80°)	813.1	3.4	B2/1000		G2/1000
BVH (80°-90°)	9.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





REPORT NUMBER: P323178

CATALOG NUMBER: GAN-SA4D-730-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0
2.5°	6019.0	6004.0	6016.0	6042.0	6054.9	6054.9	6064.9	6052.9	6056.9	6028.0	5986.0
5°	5642.4	5619.4	5652.3	5725.3	5815.2	5892.1	6006.0	6065.9	6071.9	6072.9	6024.0
7.5°	5236.8	5215.8	5264.7	5350.7	5466.5	5609.4	5808.2	5982.0	5992.0	6085.9	6050.0
10°	4907.1	4892.1	4949.1	5041.0	5176.8	5336.7	5580.4	5822.2	5851.2	6058.9	6046.0
12.5°	4645.4	4633.4	4687.3	4793.2	4932.1	5108.9	5363.6	5644.4	5683.3	5998.0	6026.0
15°	4454.5	4452.5	4497.5	4599.4	4753.2	4918.1	5178.8	5479.5	5524.5	5932.1	6023.0
17.5°	4354.6	4357.6	4390.6	4477.5	4609.4	4773.2	5023.0	5340.7	5389.6	5873.1	6038.0
20°	4344.7	4347.7	4365.6	4414.6	4521.5	4666.3	4896.1	5223.8	5274.7	5829.2	6061.9
22.5°	4432.6	4430.6	4435.6	4430.6	4490.5	4600.4	4812.2	5133.9	5192.8	5800.2	6080.9
25°	4601.4	4598.4	4596.4	4559.4	4519.5	4578.4	4777.2	5082.9	5138.9	5779.2	6091.9
27.5°	4836.2	4834.2	4831.2	4770.2	4650.4	4613.4	4781.2	5063.9	5110.9	5762.2	6089.9
30°	5144.9	5158.8	5154.8	5069.9	4883.1	4720.3	4823.2	5053.9	5094.9	5729.3	6068.9
32.5°	5507.5	5535.5	5557.4	5466.5	5232.8	4932.1	4920.1	5064.9	5094.9	5704.3	6031.0
35°	5884.1	5920.1	6001.0	5969.0	5661.3	5250.8	5086.9	5130.9	5155.8	5718.3	6013.0
37.5°	6254.7	6297.7	6473.5	6566.4	6222.8	5672.3	5346.7	5293.7	5306.7	5803.2	6033.0
40°	6685.3	6750.3	7017.0	7166.8	6893.1	6236.8	5735.3	5573.4	5578.4	5990.0	6125.9
42.5°	7250.8	7317.7	7606.4	7841.2	7648.4	6950.1	6262.7	6001.0	5996.0	6339.7	6344.7
45°	7940.1	8010.0	8308.7	8569.4	8482.5	7795.2	6938.1	6625.4	6619.4	6891.1	6759.2
47.5°	8721.3	8790.2	9056.9	9325.7	9419.6	8782.2	7798.2	7477.5	7463.5	7657.3	7399.6
50°	9391.6	9436.6	9682.3	10044.0	10467.5	9995.0	8868.1	8559.4	8544.5	8675.3	8339.7
52.5°	9635.4	9661.3	9911.1	10417.6	11474.5	11637.4	10273.7	9876.1	9865.1	9922.1	9591.4
55°	9141.9	9188.8	9495.5	10246.8	12020.0	13493.5	12048.0	11506.5	11423.6	11300.7	10900.1
57.5°	7797.2	7872.1	8201.8	9200.8	11765.2	14966.0	14655.3	13350.7	13228.8	12477.5	11964.0
60°	5842.2	5934.1	6207.8	7285.7	10405.6	15490.5	17504.5	15405.6	15130.9	13414.6	12942.1
62.5°	4009.0	4054.9	4240.8	4943.1	7663.3	14631.4	19888.1	18157.8	17656.3	14433.6	14000.0
65°	3061.9	3077.9	3153.8	3395.6	4563.4	11885.1	20836.2	21789.2	21182.8	15652.4	15097.9
67.5°	2467.5	2454.5	2559.4	2905.1	3055.9	7250.8	19730.3	25224.8	24941.1	17281.7	16202.8
69°	2175.8	2157.8	2264.7	2666.3	2870.1	4793.2	17638.4	26005.0	26023.0	18141.9	16278.7
70°	1958.0	1970.0	2075.9	2524.5	2807.2	3762.2	15640.4	25806.2	25948.1	18463.5	15823.2
72.5°	1307.7	1339.7	1552.4	2095.9	2699.3	2847.2	9443.6	22144.9	22690.3	17739.3	13575.4
75°	737.3	761.2	1014.0	1580.4	2543.5	2711.3	4988.0	16314.7	16842.2	14834.2	10468.5
77.5°	361.6	374.6	573.4	1020.0	2126.9	2583.4	2829.2	11081.9	11684.3	9682.3	5921.1
80°	152.8	159.8	286.7	629.4	1520.5	2465.5	2100.9	6820.2	6895.1	3793.2	1577.4
82.5°	58.9	60.9	120.9	392.6	966.0	1922.1	1757.2	3233.8	3155.8	714.3	359.6
85°	7.0	8.0	44.0	235.8	537.5	989.0	1427.6	1393.6	1289.7	141.9	184.8
87.5°	0.0	0.0	3.0	71.9	159.8	463.5	742.3	578.4	521.5	46.0	95.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323178
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0
2.5°	5951.1	5941.1	5887.1	5809.2	5735.3	5643.4	5555.4	5502.5	5460.5	5432.6	5465.5
5°	5967.0	5923.1	5759.2	5549.5	5343.7	5111.9	4896.1	4713.3	4641.4	4561.4	4597.4
7.5°	5962.0	5879.1	5584.4	5210.8	4833.2	4442.6	4072.9	3788.2	3640.4	3495.5	3532.5
10°	5937.1	5797.2	5350.7	4797.2	4231.8	3670.3	3145.9	2747.3	2524.5	2322.7	2351.6
12.5°	5882.1	5687.3	5074.9	4323.7	3567.4	2827.2	2212.8	1702.3	1428.6	1307.7	1322.7
15°	5849.2	5580.4	4783.2	3844.2	2858.1	1969.0	1352.6	1006.0	881.1	841.2	846.2
17.5°	5833.2	5477.5	4481.5	3295.7	2132.9	1253.7	874.1	771.2	744.3	737.3	739.3
20°	5817.2	5373.6	4170.8	2753.2	1469.5	843.2	718.3	688.3	678.3	669.3	671.3
22.5°	5790.2	5273.7	3837.2	2203.8	991.0	684.3	647.4	618.4	597.4	586.4	588.4
25°	5757.2	5168.8	3496.5	1641.4	723.3	610.4	575.4	534.5	509.5	489.5	490.5
27.5°	5704.3	5040.0	3144.9	1194.8	607.4	546.5	499.5	454.5	412.6	389.6	389.6
30°	5630.4	4894.1	2754.2	855.1	544.5	483.5	426.6	370.6	325.7	304.7	302.7
32.5°	5548.5	4742.3	2359.6	648.4	494.5	424.6	359.6	300.7	260.7	243.8	242.8
35°	5478.5	4578.4	1966.0	543.5	444.6	367.6	296.7	246.8	214.8	200.8	199.8
37.5°	5433.6	4414.6	1582.4	485.5	399.6	314.7	248.8	203.8	180.8	169.8	168.8
40°	5426.6	4292.7	1231.8	441.6	357.6	267.7	207.8	172.8	151.8	139.9	138.9
42.5°	5517.5	4222.8	945.1	404.6	314.7	226.8	176.8	147.9	125.9	113.9	112.9
45°	5756.2	4244.8	727.3	371.6	271.7	191.8	149.9	122.9	102.9	93.9	91.9
47.5°	6191.8	4396.6	578.4	338.7	230.8	162.8	127.9	101.9	84.9	75.9	74.9
50°	6967.0	4753.2	483.5	302.7	192.8	138.9	105.9	82.9	68.9	60.9	59.9
52.5°	7996.0	5388.6	431.6	267.7	159.8	117.9	86.9	65.9	53.9	48.0	47.0
55°	9130.9	6157.8	397.6	229.8	130.9	97.9	68.9	51.9	42.0	37.0	35.0
57.5°	10238.8	6824.2	365.6	192.8	108.9	79.9	54.9	41.0	33.0	28.0	27.0
60°	11256.7	7436.6	328.7	154.8	88.9	62.9	43.0	32.0	26.0	21.0	21.0
62.5°	12346.7	7910.1	277.7	120.9	72.9	48.0	35.0	29.0	21.0	18.0	17.0
65°	13501.5	8261.7	217.8	93.9	56.9	36.0	29.0	30.0	17.0	13.0	12.0
67.5°	14354.6	8191.8	160.8	73.9	44.0	28.0	28.0	32.0	15.0	10.0	9.0
69°	14166.8	7623.4	134.9	63.9	38.0	24.0	26.0	32.0	14.0	9.0	8.0
70°	13622.4	6994.0	118.9	56.9	34.0	22.0	25.0	31.0	13.0	9.0	8.0
72.5°	11344.7	5267.7	92.9	43.0	27.0	18.0	21.0	27.0	13.0	9.0	7.0
75°	8533.5	3371.6	70.9	31.0	20.0	14.0	16.0	20.0	13.0	8.0	7.0
77.5°	4643.4	1215.8	50.9	21.0	14.0	11.0	11.0	15.0	12.0	6.0	4.0
80°	1193.8	305.7	32.0	14.0	11.0	8.0	7.0	10.0	7.0	1.0	0.0
82.5°	294.7	68.9	17.0	10.0	8.0	3.0	3.0	5.0	3.0	0.0	0.0
85°	161.8	34.0	11.0	7.0	4.0	0.0	0.0	1.0	0.0	0.0	0.0
87.5°	82.9	10.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	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)