

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: P456027

Luminaire Tested: **GLAN-SA7B-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29858 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 286
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

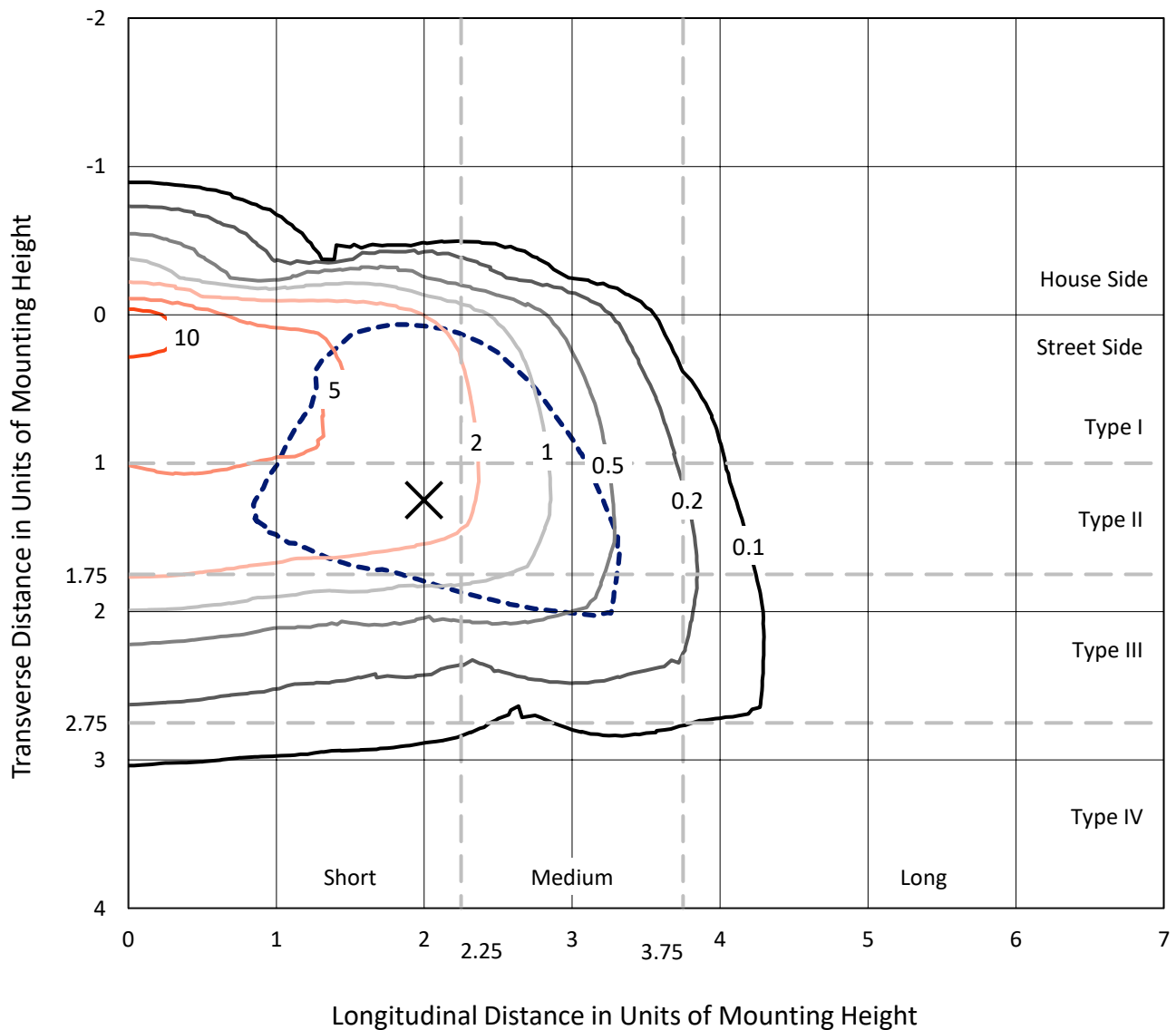


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Iso-Footcandle Lines of Horizontal Illumination

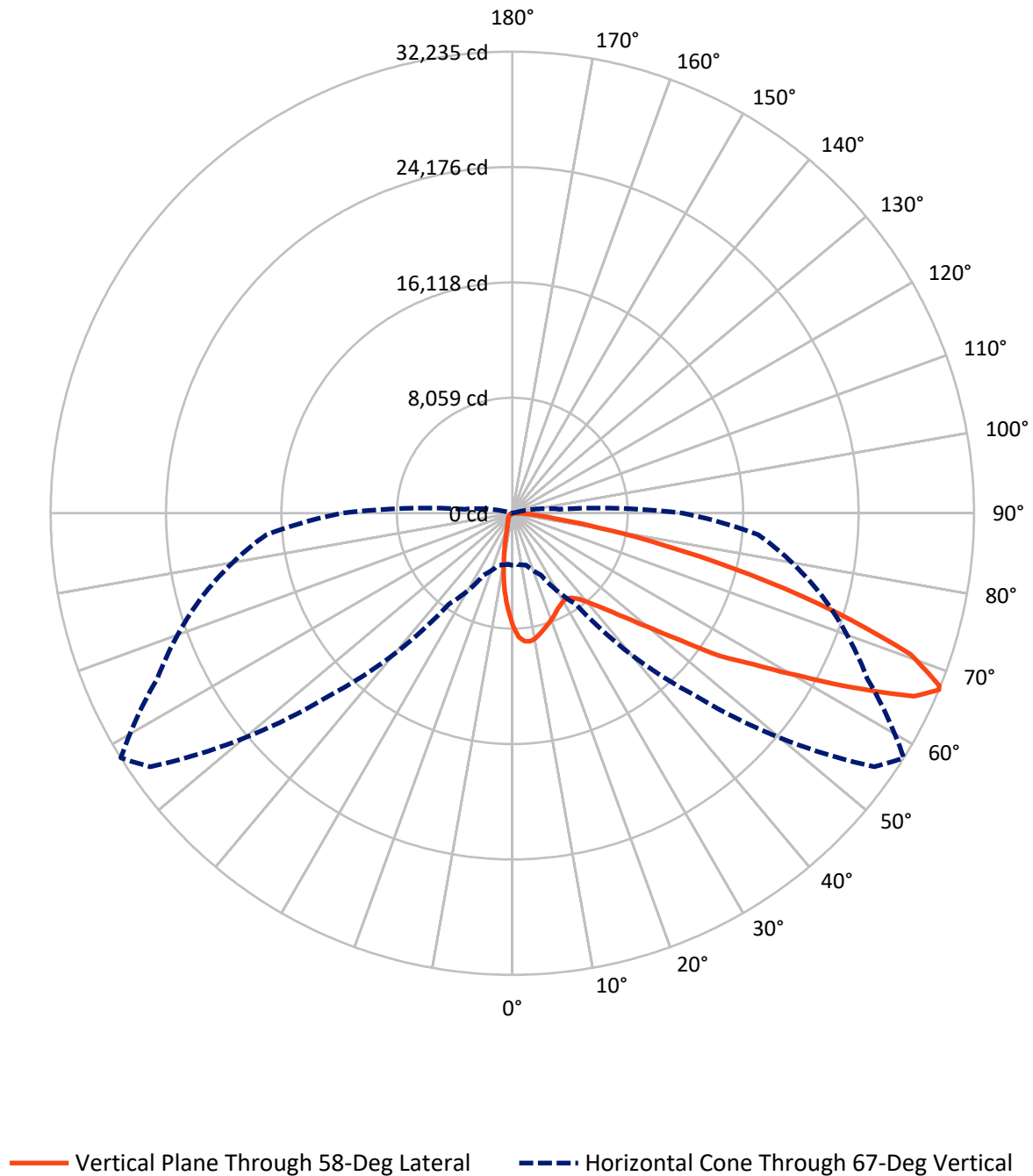
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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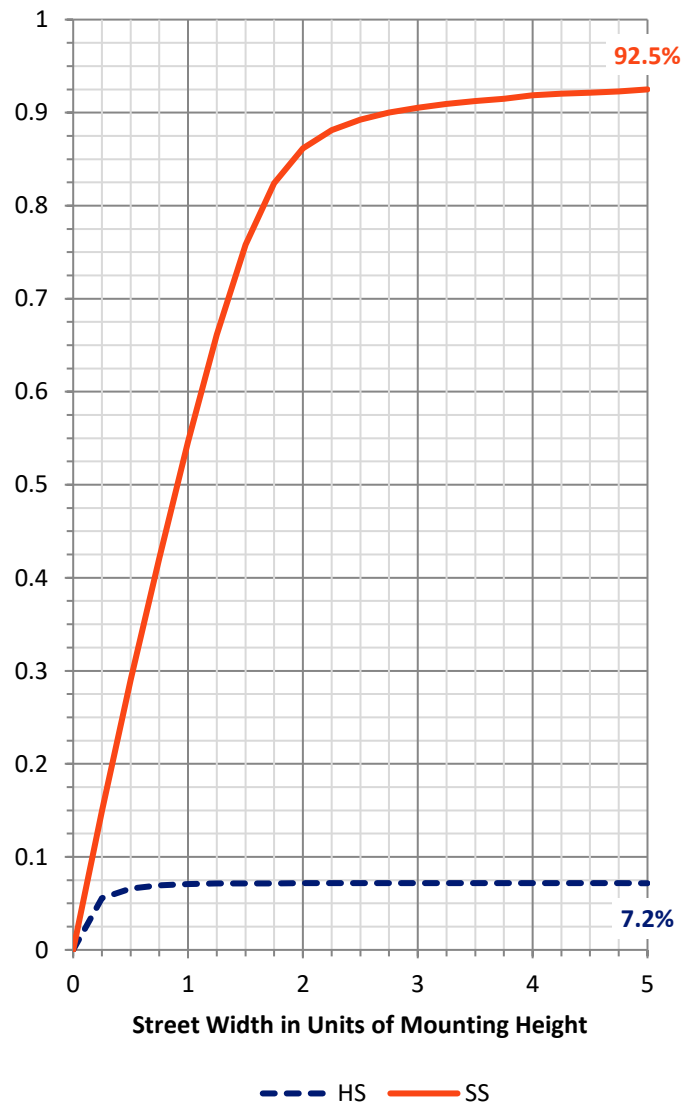
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2154.7	0.0	2154.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	27703.3	0.0	27703.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	29858.0	0.0	29858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.3	2.2
10°-20°	1387.2	4.6
20°-30°	1879.7	6.3
30°-40°	2607.1	8.7
40°-50°	4158.0	13.9
50°-60°	7187.5	24.1
60°-70°	8210.3	27.5
70°-80°	3423.0	11.5
80°-90°	362.9	1.2
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°	29858.0	100.0
0°-180°	29858.0	100.0

Coefficient of Utilization



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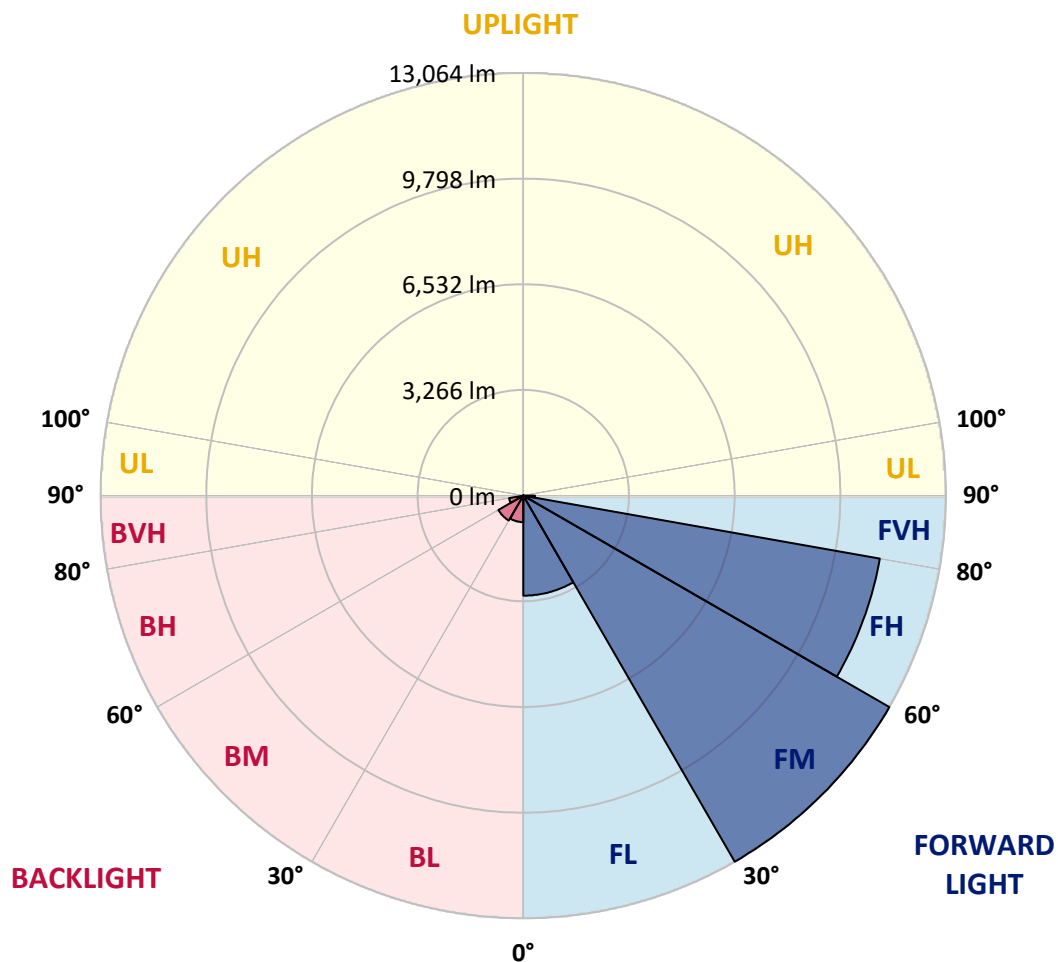
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3091.0	10.4			
FM	(30°-60°)	13064.1	43.8			
FH	(60°-80°)	11187.8	37.5			G4/12000
FVH	(80°-90°)	360.3	1.2			G3/500
BL	(0°-30°)	818.2	2.7	B2/1000		
BM	(30°-60°)	888.4	3.0	B1/1000		
BH	(60°-80°)	445.5	1.5	B1/500		G1/500
BVH	(80°-90°)	2.6	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7915.1	7915.1	7915.1	7915.1	7915.1	7915.1	7915.1	7915.1	7915.1	7915.1	7915.1
2.5°	9186.0	9200.0	9148.1	9106.2	8998.5	8882.8	8729.1	8647.3	8507.7	8266.2	7998.9
5°	9401.5	9419.5	9411.5	9401.5	9359.6	9247.9	9052.4	8980.5	8775.0	8382.0	7899.1
7.5°	8922.7	8988.5	8996.5	9074.3	9148.1	9158.1	9084.3	9030.4	8840.9	8380.0	7721.5
10°	8288.2	8332.1	8395.9	8485.7	8663.3	8810.9	8882.8	8874.8	8765.1	8318.1	7514.0
12.5°	7647.7	7671.7	7769.4	7923.1	8140.5	8391.9	8583.5	8621.4	8623.4	8244.3	7340.5
15°	7097.0	7087.1	7162.9	7340.5	7645.7	7961.0	8304.2	8364.0	8459.8	8172.5	7178.8
17.5°	6626.2	6678.0	6690.0	6885.5	7166.9	7575.9	8012.8	8118.6	8310.1	8110.6	7045.2
20°	6334.9	6362.8	6388.7	6498.5	6751.9	7182.8	7739.5	7885.2	8170.5	8054.7	6895.5
22.5°	6249.1	6267.0	6245.1	6279.0	6458.6	6841.6	7442.2	7635.7	8036.8	8002.9	6773.8
25°	6314.9	6332.9	6281.0	6241.1	6302.9	6564.3	7154.9	7390.3	7929.0	7992.9	6682.0
27.5°	6474.5	6508.4	6436.6	6364.8	6328.9	6414.7	6929.4	7202.8	7855.2	8040.8	6640.1
30°	6723.9	6743.9	6690.0	6602.2	6520.4	6434.6	6811.7	7073.1	7835.3	8152.5	6636.1
32.5°	6995.3	7037.2	7007.3	6949.4	6843.6	6640.1	6845.6	7077.1	7883.2	8314.1	6686.0
35°	7330.5	7378.4	7406.3	7394.3	7258.7	7005.3	7061.1	7256.7	8010.9	8611.4	6821.7
37.5°	7659.7	7701.6	7859.2	7913.1	7793.4	7553.9	7480.1	7609.8	8292.2	9000.5	7067.1
40°	8036.8	8092.7	8314.1	8519.6	8461.8	8210.4	8074.7	8182.4	8723.2	9587.1	7532.0
42.5°	8397.9	8497.7	8834.9	9198.0	9251.9	8970.6	8880.8	8916.7	9361.6	10431.1	8180.4
45°	8910.7	9004.5	9439.4	9932.3	10185.7	9966.2	9874.4	9868.4	10237.5	11618.2	9231.9
47.5°	9650.9	9734.7	10247.5	10734.3	11185.3	11215.2	11041.6	11101.5	11338.9	13006.9	10520.9
50°	10558.8	10756.3	11093.5	11600.3	12202.8	12689.7	12743.5	12663.7	12867.2	14615.1	12069.2
52.5°	11877.6	11953.4	12262.7	12679.7	13386.0	14212.0	14852.5	14742.8	14678.9	16147.4	13633.4
55°	12861.3	12963.0	13443.9	14016.5	15052.0	16141.4	17530.1	17568.0	16761.9	17619.9	15163.8
57.5°	12564.0	12719.6	13447.9	14599.1	16875.7	18866.9	19900.4	19926.4	18689.3	19050.5	16891.6
60°	11037.6	11111.4	12154.9	13691.3	17031.3	21819.8	23262.4	23052.9	20650.6	20650.6	18418.0
62.5°	7827.3	7943.0	8789.0	11049.6	15381.2	22845.4	27288.8	26855.8	23352.2	22181.0	19327.8
65°	5002.0	4890.3	5451.0	6975.3	11458.6	21331.0	30794.4	30820.3	25894.1	22793.5	18831.0
67°	3623.3	3579.4	3741.1	4768.6	7769.4	17931.1	30868.2	32235.0	27354.6	22406.4	17242.8
67.5°	3314.1	3348.0	3465.7	4301.7	7059.1	16317.0	30533.0	32151.2	27683.8	22173.0	16668.2
70°	2512.0	2454.1	2581.8	3042.7	4231.9	10293.4	26265.2	29487.5	27274.8	19856.5	13318.2
72.5°	1847.6	1841.6	2019.2	2488.1	3258.2	5482.9	19716.9	23643.5	22282.7	15119.9	8386.0
75°	1247.0	1302.9	1586.2	2079.0	2952.9	3555.5	13441.9	17153.0	15469.0	8585.5	3427.8
77.5°	710.3	714.3	1021.6	1670.0	2651.7	2861.2	7965.0	10927.9	8188.4	2855.2	1017.6
80°	307.3	337.2	506.8	1213.1	2198.7	2533.9	4567.1	6005.6	3312.1	604.6	329.2
82.5°	113.7	133.7	223.5	746.2	1604.2	2087.0	2759.4	2867.1	1123.3	213.5	205.5
85°	0.0	4.0	81.8	349.2	836.0	931.8	1843.6	1699.9	496.8	101.8	133.7
87.5°	0.0	0.0	0.0	35.9	109.7	347.2	572.6	638.5	119.7	35.9	31.9
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°	7915.1	7915.1	7915.1	7915.1	7915.1	7915.1	7915.1	7915.1	7915.1	7915.1	7915.1
2.5°	7855.2	7725.5	7400.3	7075.1	6833.7	6632.1	6328.9	6163.3	6075.5	5945.8	5953.8
5°	7657.7	7394.3	6821.7	6229.1	5750.3	5283.4	4724.7	4499.2	4309.7	4202.0	4130.1
7.5°	7364.4	6975.3	6127.4	5337.2	4601.0	3785.0	3172.4	2763.4	2488.1	2386.3	2288.5
10°	7043.2	6526.4	5423.0	4327.7	3306.1	2464.1	1945.4	1570.2	1436.6	1312.9	1324.8
12.5°	6745.9	6117.4	4776.6	3415.8	2316.5	1566.3	1221.1	1067.4	1023.6	1009.6	1009.6
15°	6502.5	5726.3	4082.2	2567.9	1588.2	1125.3	977.7	935.8	919.8	915.8	915.8
17.5°	6243.1	5355.2	3455.7	1897.5	1155.2	941.7	891.9	863.9	857.9	854.0	854.0
20°	6011.6	4982.1	2861.2	1412.6	933.8	848.0	816.0	798.1	792.1	788.1	790.1
22.5°	5792.2	4650.9	2302.5	1067.4	822.0	772.2	740.2	722.3	710.3	700.3	702.3
25°	5596.6	4331.6	1851.6	873.9	740.2	696.3	664.4	638.5	612.5	600.6	598.6
27.5°	5459.0	4052.3	1442.6	748.2	666.4	618.5	578.6	546.7	512.8	494.8	490.8
30°	5345.2	3769.0	1141.3	660.4	592.6	546.7	496.8	450.9	415.0	397.1	389.1
32.5°	5271.4	3499.6	899.8	588.6	530.7	474.9	419.0	373.1	333.2	315.2	311.3
35°	5259.4	3274.2	736.2	528.7	474.9	415.0	357.1	307.3	273.3	255.4	251.4
37.5°	5345.2	3100.6	616.5	480.9	429.0	363.1	299.3	253.4	223.5	209.5	207.5
40°	5574.7	2990.9	534.7	440.9	387.1	315.2	255.4	215.5	185.6	171.6	171.6
42.5°	6011.6	2994.8	480.9	403.0	345.2	269.4	217.5	179.6	153.6	141.7	137.7
45°	6694.0	3130.5	435.0	365.1	305.3	233.4	185.6	147.6	121.7	111.7	111.7
47.5°	7607.8	3399.9	395.1	327.2	269.4	199.5	157.6	119.7	97.8	87.8	87.8
50°	8803.0	3832.8	361.1	295.3	239.4	171.6	127.7	97.8	75.8	67.8	65.8
52.5°	10052.0	4367.6	321.2	267.4	205.5	145.7	103.8	75.8	57.9	51.9	49.9
55°	11430.7	4890.3	283.3	239.4	167.6	121.7	81.8	59.9	41.9	35.9	35.9
57.5°	12821.4	5403.1	237.4	199.5	131.7	89.8	63.8	43.9	27.9	21.9	21.9
60°	13998.5	5568.7	201.5	161.6	99.8	63.8	45.9	27.9	16.0	10.0	10.0
62.5°	14160.2	5010.0	169.6	123.7	71.8	43.9	23.9	16.0	6.0	4.0	4.0
65°	13282.3	4070.3	141.7	93.8	47.9	21.9	10.0	6.0	2.0	0.0	0.0
67°	11901.6	3300.1	115.7	69.8	33.9	14.0	6.0	2.0	0.0	0.0	0.0
67.5°	11548.4	3146.5	111.7	65.8	29.9	12.0	4.0	2.0	0.0	0.0	0.0
70°	9062.3	2356.4	79.8	39.9	18.0	8.0	0.0	0.0	0.0	0.0	0.0
72.5°	5632.5	1332.8	57.9	23.9	12.0	4.0	0.0	0.0	0.0	0.0	0.0
75°	2128.9	466.9	39.9	16.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	662.4	177.6	23.9	12.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	223.5	67.8	16.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	137.7	27.9	10.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	85.8	12.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.0	4.0	2.0	0.0	0.0	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)