

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: P324980

Luminaire Tested: **GAN-SA6D-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30188 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

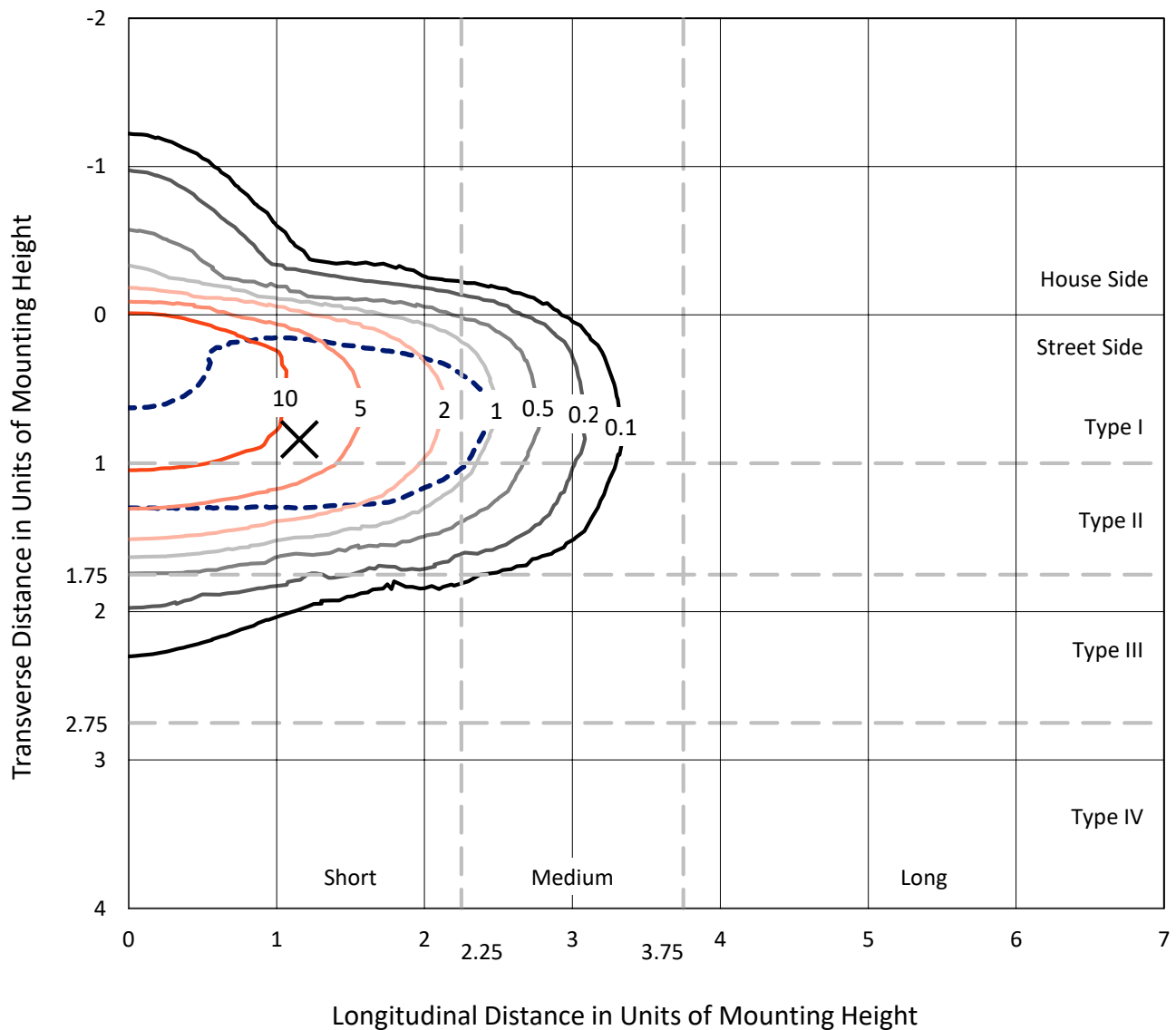
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

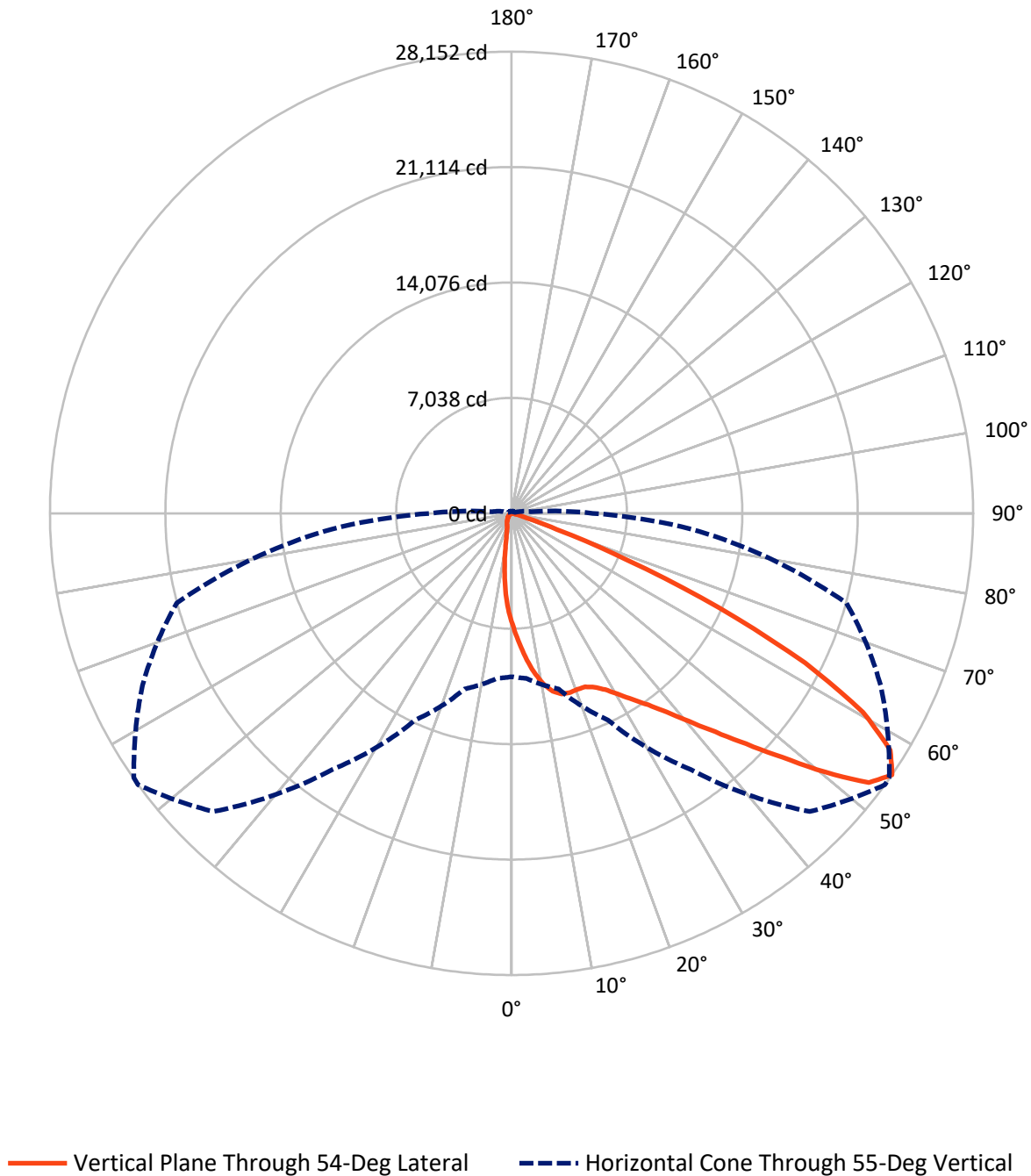
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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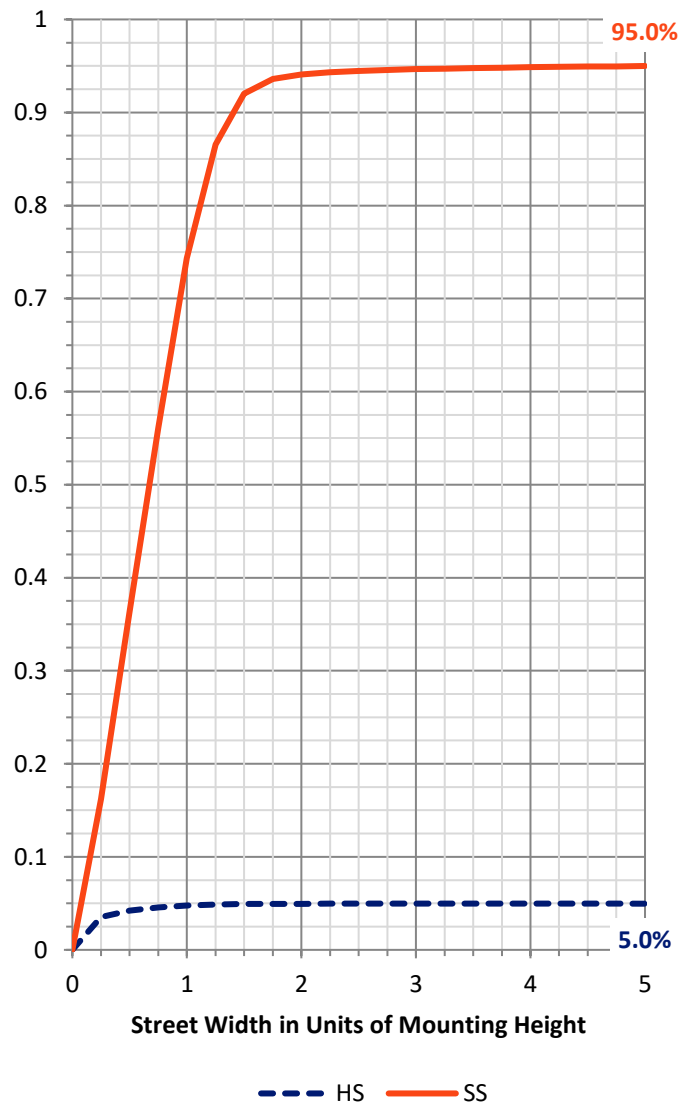
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1506.2	0.0	1506.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	28681.8	0.0	28681.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	30188.0	0.0	30188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.6	2.1
10°-20°	1707.5	5.7
20°-30°	2915.3	9.7
30°-40°	4678.5	15.5
40°-50°	7476.3	24.8
50°-60°	8011.1	26.5
60°-70°	4113.1	13.6
70°-80°	623.0	2.1
80°-90°	40.6	0.1
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°	30188.0	100.0
0°-180°	30188.0	100.0

Coefficient of Utilization



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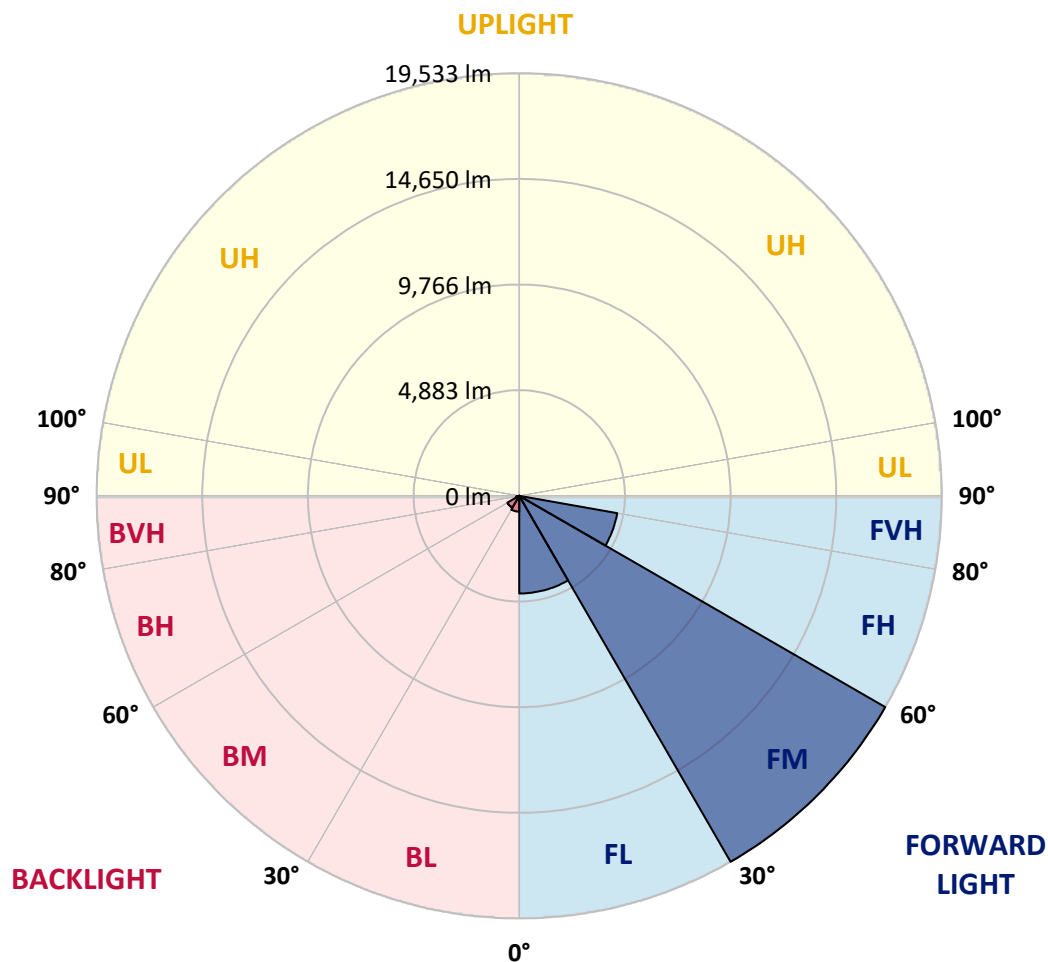
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4512.6	14.9			
FM	(30°-60°)	19533.0	64.7			
FH	(60°-80°)	4597.4	15.2			G2/5000
FVH	(80°-90°)	38.9	0.1			G1/100
BL	(0°-30°)	732.8	2.4	B2/1000		
BM	(30°-60°)	632.9	2.1	B1/1000		
BH	(60°-80°)	138.8	0.5	B1/500		G1/500
BVH	(80°-90°)	1.6	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6760.9	6760.9	6760.9	6760.9	6760.9	6760.9	6760.9	6760.9	6760.9	6760.9	6760.9
2.5°	8484.4	8357.9	8361.8	8304.5	8094.6	7930.3	7759.5	7719.1	7453.2	7174.2	6905.6
5°	9951.0	9858.5	9836.3	9725.5	9433.5	9124.5	8793.3	8716.4	8196.3	7625.2	7063.4
7.5°	10704.5	10705.8	10687.6	10647.2	10464.7	10164.8	9760.7	9679.8	8971.9	8115.4	7227.6
10°	10485.5	10535.1	10636.8	10771.0	10910.5	10872.7	10569.0	10496.0	9726.8	8634.3	7410.1
12.5°	9974.5	9981.0	10094.4	10314.7	10716.3	11128.2	11133.5	11108.7	10447.7	9176.6	7610.9
15°	9720.3	9745.0	9786.7	9928.9	10309.5	10969.2	11441.1	11476.3	11108.7	9752.9	7824.7
17.5°	9887.1	9922.3	9887.1	9904.1	10124.4	10717.6	11494.6	11584.5	11686.2	10322.6	8026.8
20°	10339.5	10372.1	10309.5	10240.4	10283.5	10644.6	11456.8	11578.0	12138.6	10828.4	8196.3
22.5°	10949.6	10962.7	10867.5	10754.1	10722.8	10892.3	11488.1	11613.2	12501.0	11286.0	8303.2
25°	11621.0	11632.8	11514.1	11383.8	11309.5	11378.5	11744.9	11838.7	12820.4	11722.7	8364.4
27.5°	12352.4	12362.8	12214.2	12053.9	11967.8	11970.4	12168.6	12269.0	13160.7	12220.7	8414.0
30°	13125.5	13120.3	12983.4	12760.4	12650.9	12648.3	12778.7	12880.4	13653.5	12859.5	8481.8
32.5°	13993.7	13983.3	13789.1	13512.7	13388.8	13407.1	13523.1	13581.8	14264.9	13540.1	8603.0
35°	15137.1	15107.1	14813.8	14470.9	14242.7	14236.2	14334.0	14380.9	15044.5	14364.0	8805.1
37.5°	16620.7	16593.3	16195.7	15697.6	15376.9	15257.0	15373.0	15433.0	16156.5	15421.3	9129.7
40°	18083.4	18056.0	17820.0	17363.8	16869.7	16581.5	16672.8	16736.7	17545.0	16704.1	9539.0
42.5°	19092.4	19115.9	19198.0	19235.8	18773.0	18168.1	18209.8	18276.3	19003.8	18075.6	10007.1
45°	19358.4	19409.2	19873.3	20784.6	20958.0	20486.1	20049.3	20085.8	20486.1	19447.0	10475.1
47.5°	18559.2	18653.1	19548.7	21243.5	22711.5	23045.2	22218.7	22170.4	21908.4	20556.5	10807.5
50°	16743.2	16829.2	17989.5	20496.5	23243.4	25488.3	24818.2	24676.1	23156.0	21220.0	10924.9
52.5°	14115.0	14219.3	15161.8	18144.7	22240.8	26578.2	27279.6	27160.9	24071.2	21272.2	10944.4
55°	9968.0	10094.4	11091.7	13906.4	19063.8	25711.2	28151.7	28116.5	24831.3	21134.0	10986.1
57.5°	5601.9	5693.2	6768.7	8914.6	13962.4	22394.7	27240.5	27473.8	25290.1	20894.1	11048.7
60°	2487.4	2512.2	3068.9	4437.7	8174.1	17114.8	24631.8	25025.5	24896.4	20573.4	11154.3
62.5°	1379.3	1358.4	1358.4	1844.7	3552.5	10595.0	20085.8	20736.4	23216.0	20194.1	11159.5
65°	1080.8	1061.2	1005.1	1013.0	1353.2	4702.4	13909.0	15065.4	20024.6	19082.0	10784.1
67.5°	916.5	899.5	843.5	821.3	840.9	1551.4	7642.2	8842.9	15194.4	16191.7	9340.9
70°	774.4	762.7	734.0	706.6	657.1	766.6	2924.2	3740.3	9363.1	10771.0	6376.3
72.5°	623.2	617.9	628.4	604.9	544.9	511.0	999.9	1211.1	4205.7	4806.7	2626.9
75°	537.1	534.5	539.7	516.3	448.5	355.9	508.4	555.4	1186.4	1175.9	531.9
77.5°	349.4	353.3	447.2	436.7	385.9	237.3	263.3	284.2	359.8	269.9	161.7
80°	222.9	220.3	226.8	362.4	346.8	181.2	131.7	138.2	173.4	133.0	78.2
82.5°	135.6	133.0	148.6	169.5	174.7	126.5	80.8	82.1	108.2	86.0	41.7
85°	11.7	15.6	90.0	83.4	60.0	39.1	39.1	41.7	57.4	50.8	23.5
87.5°	0.0	0.0	15.6	23.5	13.0	14.3	14.3	15.6	22.2	22.2	11.7
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°	6760.9	6760.9	6760.9	6760.9	6760.9	6760.9	6760.9	6760.9	6760.9	6760.9	6760.9
2.5°	6766.1	6630.5	6356.8	6093.4	5870.5	5655.4	5410.3	5167.8	5054.4	5008.8	4961.8
5°	6777.8	6498.9	5934.4	5366.0	4776.7	4246.1	3793.7	3329.6	3097.6	2995.9	2948.9
7.5°	6793.5	6368.5	5455.9	4501.6	3552.5	2832.9	2204.5	1800.4	1625.7	1598.3	1530.5
10°	6796.1	6210.7	4900.5	3547.3	2381.8	1707.8	1314.1	1105.5	1028.6	1015.6	993.4
12.5°	6801.3	6024.3	4283.9	2626.9	1587.9	1142.0	950.4	881.3	860.4	859.1	859.1
15°	6817.0	5828.8	3643.8	1892.9	1140.7	904.8	834.4	807.0	799.2	803.1	801.8
17.5°	6817.0	5598.0	3015.4	1410.6	921.7	813.5	774.4	756.1	753.5	757.4	758.7
20°	6767.4	5317.7	2439.2	1097.7	817.4	754.8	719.6	702.7	696.2	698.8	700.1
22.5°	6648.8	4973.6	1969.9	908.7	748.3	701.4	663.6	637.5	627.1	628.4	628.4
25°	6463.7	4565.5	1541.0	786.1	692.3	644.0	599.7	569.7	563.2	561.9	564.5
27.5°	6226.4	4114.4	1226.8	692.3	625.8	580.1	535.8	511.0	505.8	507.1	508.4
30°	5993.0	3646.4	967.3	612.7	551.5	508.4	474.5	462.8	462.8	466.7	468.0
32.5°	5779.2	3196.6	765.3	543.6	485.0	445.9	426.3	425.0	431.5	434.1	435.4
35°	5595.4	2780.8	633.6	490.2	432.8	398.9	392.4	397.6	405.4	410.7	412.0
37.5°	5465.0	2409.2	554.1	445.9	392.4	365.0	363.7	374.2	384.6	396.3	398.9
40°	5410.3	2095.0	499.3	406.7	359.8	339.0	335.0	349.4	368.9	385.9	388.5
42.5°	5364.7	1838.2	452.4	368.9	333.7	303.8	302.5	320.7	344.2	361.1	365.0
45°	5325.5	1632.2	409.4	328.5	299.8	260.7	264.6	288.1	306.4	324.6	328.5
47.5°	5244.7	1462.7	362.4	285.5	247.7	222.9	230.8	251.6	266.0	293.3	297.2
50°	5100.0	1324.5	314.2	233.4	202.1	192.9	204.7	219.0	237.3	260.7	263.3
52.5°	5002.2	1220.2	272.5	195.6	166.9	169.5	181.2	186.4	196.9	206.0	203.4
55°	4946.2	1162.9	238.6	169.5	142.1	149.9	152.5	146.0	140.8	131.7	127.8
57.5°	4939.7	1110.7	212.5	147.3	125.2	129.1	119.9	97.8	79.5	69.1	66.5
60°	4929.2	1046.9	191.6	123.8	110.8	105.6	86.0	53.5	37.8	35.2	35.2
62.5°	4815.8	947.8	176.0	104.3	93.9	79.5	49.5	24.8	20.9	22.2	22.2
65°	4454.7	809.6	160.4	84.7	74.3	57.4	24.8	14.3	7.8	9.1	9.1
67.5°	3787.2	645.3	143.4	65.2	56.1	36.5	14.3	6.5	0.0	0.0	0.0
70°	2535.7	400.2	121.2	45.6	36.5	22.2	10.4	1.3	0.0	0.0	0.0
72.5°	972.5	216.4	97.8	27.4	23.5	15.6	6.5	0.0	0.0	0.0	0.0
75°	219.0	142.1	67.8	19.6	16.9	10.4	2.6	0.0	0.0	0.0	0.0
77.5°	83.4	103.0	39.1	13.0	11.7	6.5	0.0	0.0	0.0	0.0	0.0
80°	40.4	61.3	18.3	7.8	6.5	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	20.9	23.5	7.8	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	11.7	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	3.9	1.3	1.3	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)