

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: P454654

Luminaire Tested: **GLAN-SA5D-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5D-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25523 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 309
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

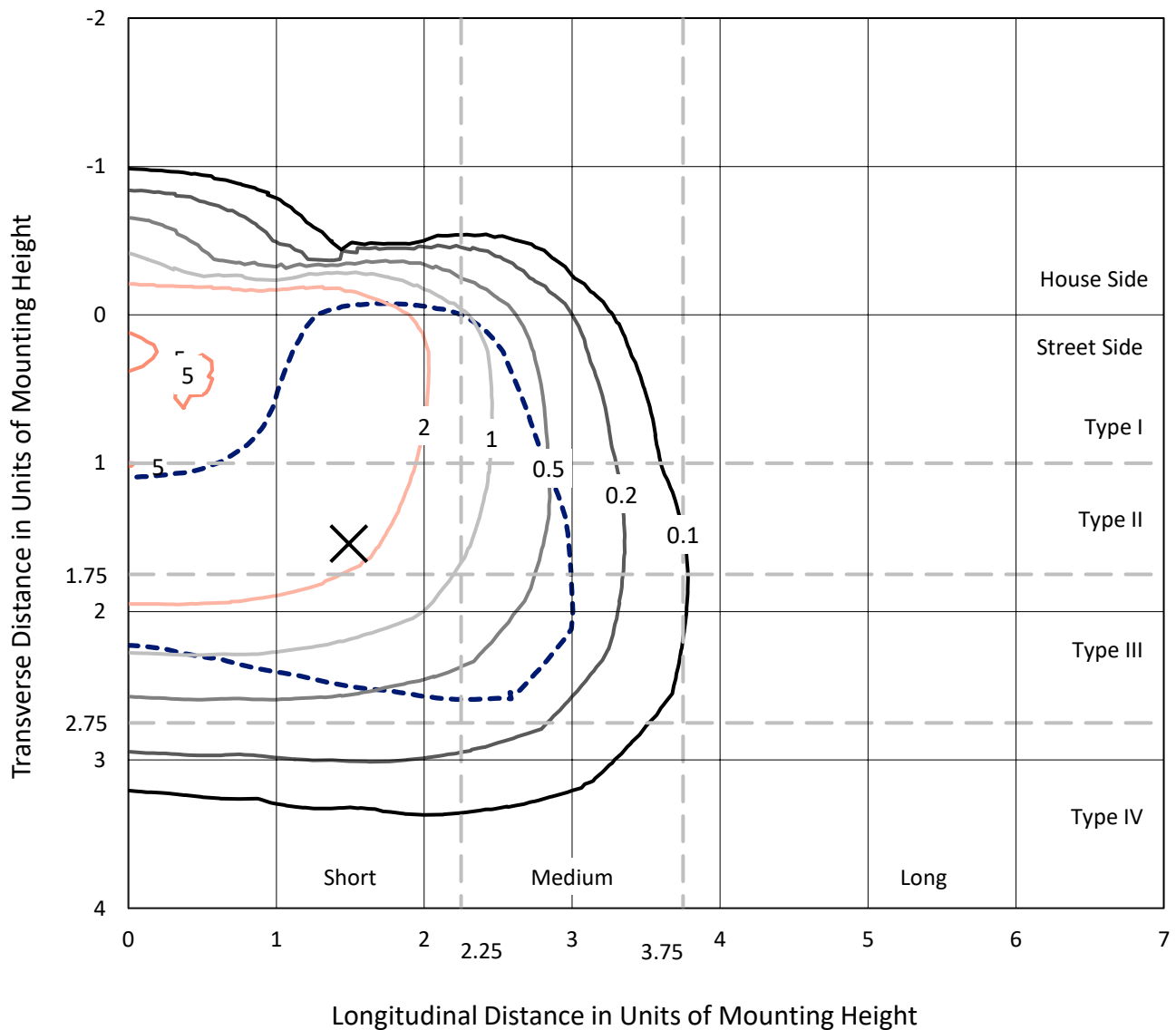


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Iso-Footcandle Lines of Horizontal Illumination

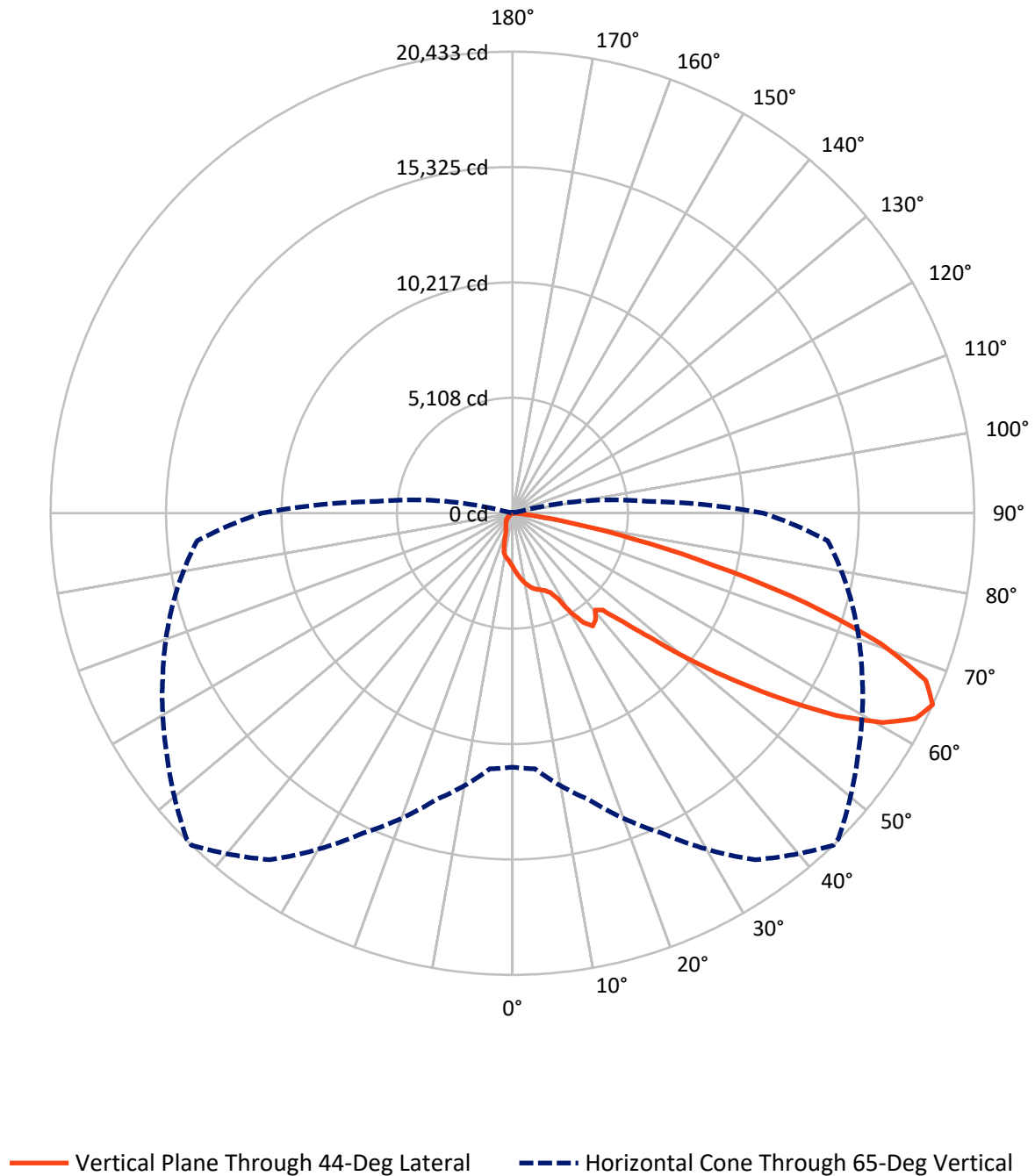
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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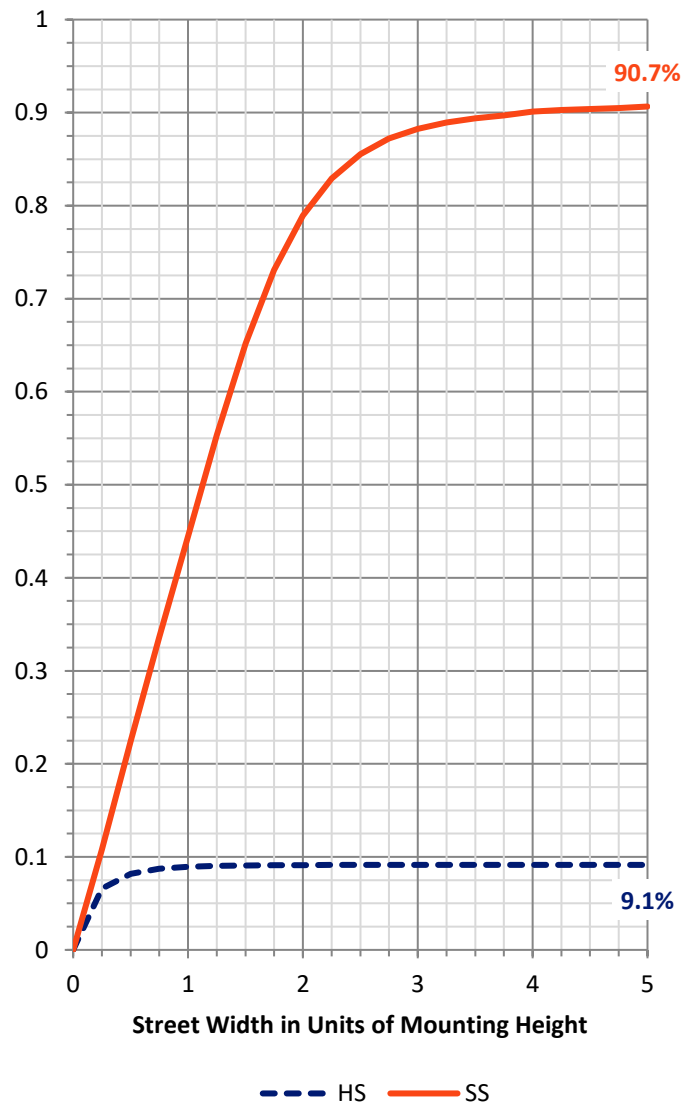
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2351.6	0.0	2351.6
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	23171.5	0.0	23171.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	25523.0	0.0	25523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.3	0.9
10°-20°	711.1	2.8
20°-30°	1205.7	4.7
30°-40°	2004.7	7.9
40°-50°	3500.3	13.7
50°-60°	6838.3	26.8
60°-70°	7934.0	31.1
70°-80°	2889.2	11.3
80°-90°	203.6	0.8
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°	25523.0	100.0
0°-180°	25523.0	100.0

Coefficient of Utilization



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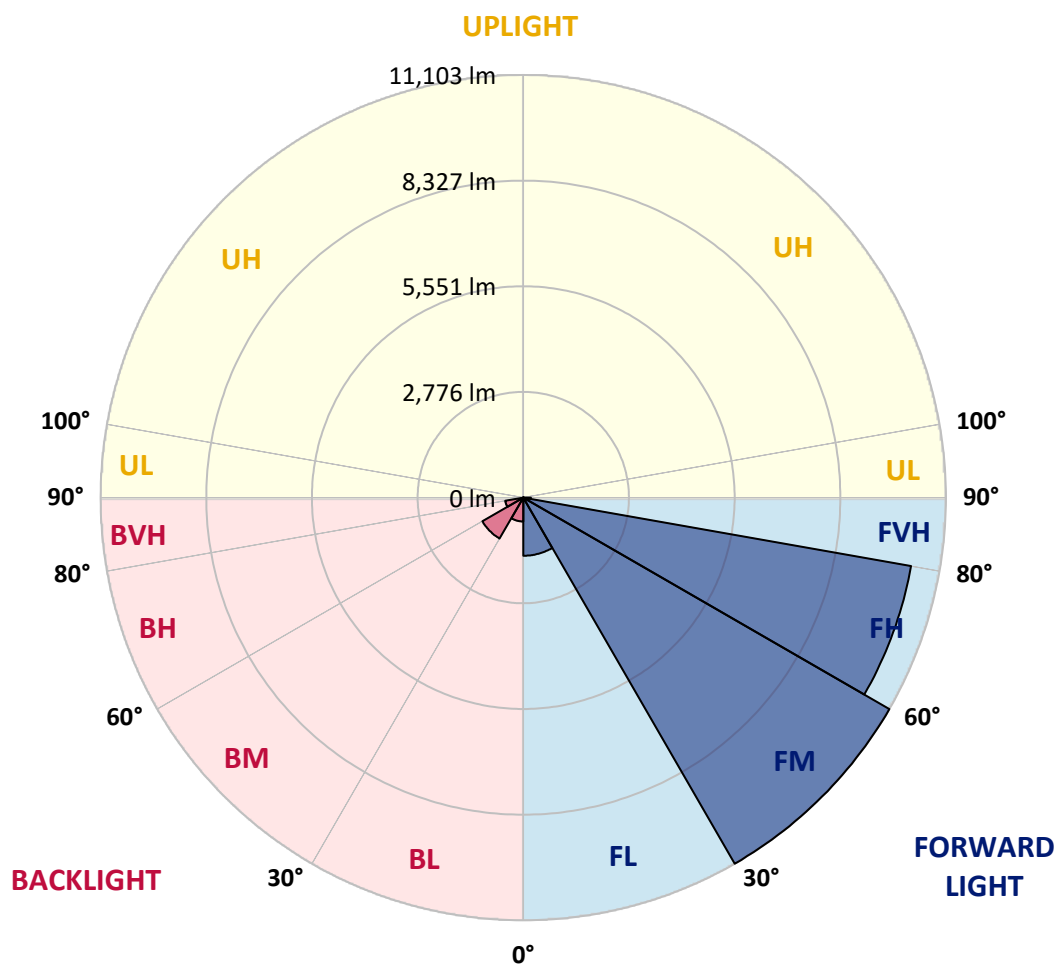
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1526.5	6.0			
FM	(30°-60°)	11102.5	43.5			
FH	(60°-80°)	10341.6	40.5			G4/12000
FVH	(80°-90°)	200.8	0.8			G2/225
BL	(0°-30°)	626.5	2.5	B2/1000		
BM	(30°-60°)	1240.7	4.9	B2/2500		
BH	(60°-80°)	481.6	1.9	B1/500		G1/500
BVH	(80°-90°)	2.8	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°	44°	45°	55°	65°	75°	85°
0°	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4
2.5°	2673.8	2662.1	2656.3	2625.1	2601.7	2572.4	2572.4	2535.4	2492.4	2445.6	2402.7
5°	2972.2	2952.7	2927.4	2900.1	2845.4	2767.4	2767.4	2689.4	2599.7	2519.8	2432.0
7.5°	3258.9	3241.4	3198.4	3145.8	3056.1	2974.2	2968.3	2855.2	2747.9	2627.0	2502.2
10°	3510.5	3496.8	3459.8	3358.4	3264.8	3157.5	3155.5	3028.8	2904.0	2755.7	2601.7
12.5°	3686.0	3688.0	3639.2	3541.7	3420.8	3319.4	3311.6	3186.7	3056.1	2896.2	2707.0
15°	3810.8	3810.8	3760.1	3650.9	3541.7	3452.0	3444.2	3335.0	3200.4	3026.8	2822.0
17.5°	3845.9	3857.6	3803.0	3705.5	3617.8	3539.7	3537.8	3446.1	3338.9	3171.1	2939.1
20°	3832.3	3844.0	3801.1	3725.0	3664.6	3619.7	3613.9	3576.8	3477.3	3319.4	3063.9
22.5°	3803.0	3814.7	3783.5	3738.7	3709.4	3723.1	3713.3	3744.5	3691.9	3500.7	3212.1
25°	3808.9	3820.6	3797.2	3771.8	3797.2	3881.0	3906.4	4041.0	3994.2	3730.9	3372.0
27.5°	3992.2	4015.6	3982.5	3994.2	4083.9	4278.9	4327.7	4559.7	4353.0	4023.4	3621.7
30°	4399.8	4384.2	4321.8	4378.4	4690.4	5103.9	5090.2	5053.2	4729.4	4360.8	3918.1
32.5°	4770.4	4756.7	4752.8	4996.6	5562.2	5763.1	5753.3	5394.4	5066.8	4747.0	4210.6
35°	4920.5	4867.9	4856.2	5447.1	6393.0	6127.8	6067.3	5534.9	5476.4	5168.2	4509.0
37.5°	5373.0	5335.9	5154.6	5521.2	6061.4	5973.7	5926.9	5776.7	5913.2	5540.7	4846.4
40°	6305.2	6201.9	6038.0	5679.2	5591.4	5628.5	5675.3	6086.8	6430.0	6049.7	5296.9
42.5°	7463.7	7440.3	7136.0	6467.1	5809.9	5860.6	5921.0	6734.3	7173.1	6816.2	6032.2
45°	8854.2	8887.4	8448.6	7658.7	6796.7	6839.6	6927.4	7689.9	8179.4	8007.8	7188.7
47.5°	10118.0	10092.7	9944.4	9123.4	8327.7	8232.1	8374.5	8916.6	9571.9	9599.2	8624.1
50°	11389.6	11524.2	11303.8	10982.0	10391.0	10190.2	10137.5	10402.7	11401.3	11270.6	10348.1
52.5°	13217.0	13287.2	12873.7	12791.8	12926.4	12275.0	12222.3	12286.7	13179.9	12731.4	11639.2
55°	14365.7	14324.7	14170.7	14810.4	15342.8	14529.5	14463.2	14203.8	14656.3	13763.1	12881.5
57.5°	14728.4	14787.0	15145.8	16302.3	17562.2	16871.8	16750.9	16013.7	15721.1	14724.5	14024.4
60°	14566.6	14673.8	15448.1	17168.2	18915.7	18812.3	18709.0	17470.5	16485.6	15528.1	14826.0
62.5°	13414.0	13564.1	14802.6	17014.2	19374.0	20019.5	19890.8	18379.4	16994.7	15918.1	14966.4
65°	11241.4	11352.5	13131.2	15615.8	18722.6	20433.0	20386.2	18664.1	17074.6	15561.2	14004.9
67.5°	8013.7	8392.0	10040.0	13160.4	16795.7	19727.0	19807.0	18322.8	16323.8	14018.5	11598.3
70°	5037.6	5295.0	6476.9	9421.8	13464.7	17306.7	17570.0	16760.6	14166.8	10927.4	7764.0
72.5°	2402.7	2593.9	3436.4	5963.9	9503.7	13616.8	13825.5	13759.2	10954.7	6884.5	4005.9
75°	1070.7	1142.9	1640.2	3044.4	6135.6	9152.6	9692.8	9782.6	6845.5	3368.1	1558.3
77.5°	546.1	548.0	768.4	1474.4	3063.9	5460.8	5568.0	5882.0	3711.4	1484.2	542.2
80°	290.6	310.1	407.6	696.2	1589.5	2689.4	2675.8	2941.0	1646.0	727.5	181.4
82.5°	130.7	144.3	230.1	364.7	776.2	1020.0	1100.0	1203.3	706.0	464.2	80.0
85°	39.0	46.8	113.1	183.3	280.8	294.5	329.6	425.2	399.8	329.6	41.0
87.5°	5.9	5.9	46.8	50.7	41.0	52.7	54.6	60.5	128.7	120.9	21.5
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°	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4
2.5°	2379.3	2365.7	2316.9	2276.0	2240.9	2219.4	2194.1	2178.5	2170.7	2164.8	2166.8
5°	2389.1	2355.9	2272.1	2205.8	2155.0	2100.4	2063.4	2041.9	2032.2	2016.6	2016.6
7.5°	2443.7	2391.0	2274.0	2172.6	2084.8	2010.7	1940.5	1915.2	1897.6	1893.7	1889.8
10°	2521.7	2455.4	2295.5	2155.0	2030.2	1928.8	1829.4	1741.6	1673.3	1632.4	1626.5
12.5°	2619.2	2523.7	2328.6	2143.3	1983.4	1804.0	1540.7	1363.2	1244.3	1207.2	1213.1
15°	2708.9	2605.6	2361.8	2133.6	1897.6	1495.9	1197.5	994.6	934.2	928.3	930.3
17.5°	2816.2	2693.3	2400.8	2119.9	1661.6	1142.9	889.3	834.7	846.4	865.9	864.0
20°	2927.4	2786.9	2447.6	2038.0	1326.2	860.1	786.0	791.8	809.4	826.9	830.8
22.5°	3046.3	2894.2	2502.2	1841.1	1012.2	748.9	745.0	752.8	770.4	789.9	793.8
25°	3210.1	3028.8	2543.2	1583.6	766.5	692.3	700.1	713.8	729.4	750.9	754.8
27.5°	3420.8	3210.1	2564.6	1248.2	663.1	641.6	643.6	663.1	682.6	702.1	702.1
30°	3693.8	3426.6	2521.7	943.9	612.4	592.9	585.1	596.8	622.1	641.6	643.6
32.5°	3937.6	3631.4	2408.6	721.6	575.3	548.0	528.5	530.5	540.2	551.9	553.9
35°	4181.4	3830.3	2215.5	606.5	536.3	505.1	475.9	460.3	452.5	446.6	452.5
37.5°	4493.4	4078.0	1958.1	551.9	503.2	464.2	423.2	390.1	362.8	345.2	349.1
40°	4895.2	4421.3	1653.8	516.8	472.0	425.2	370.6	327.6	280.8	265.2	257.4
42.5°	5558.3	4942.0	1334.0	487.6	440.8	384.2	315.9	257.4	214.5	198.9	202.8
45°	6605.6	5599.2	1027.8	456.4	409.6	339.3	265.2	202.8	167.7	159.9	163.8
47.5°	7994.2	6449.5	791.8	421.3	370.6	290.6	208.7	159.9	138.5	136.5	134.6
50°	9300.8	7241.4	661.1	382.3	323.7	241.8	171.6	134.6	120.9	119.0	119.0
52.5°	10482.7	7808.9	538.3	337.4	273.0	198.9	144.3	119.0	107.3	101.4	101.4
55°	11533.9	8179.4	436.9	282.8	214.5	158.0	124.8	107.3	93.6	85.8	83.9
57.5°	12327.7	8224.3	327.6	226.2	159.9	122.9	107.3	93.6	78.0	68.3	64.4
60°	12667.0	7836.2	241.8	171.6	119.0	97.5	85.8	76.1	58.5	48.8	46.8
62.5°	12325.7	7081.4	179.4	130.7	91.7	72.2	60.5	56.6	41.0	29.3	27.3
65°	11102.9	5991.2	142.4	99.5	68.3	52.7	39.0	37.1	25.4	13.7	11.7
67.5°	8895.2	4692.4	113.1	74.1	48.8	35.1	25.4	23.4	13.7	3.9	3.9
70°	5784.5	2999.5	91.7	54.6	31.2	23.4	15.6	11.7	7.8	2.0	0.0
72.5°	2861.0	1402.2	74.1	42.9	21.5	11.7	5.9	3.9	5.9	0.0	0.0
75°	1109.7	499.3	54.6	29.3	11.7	5.9	3.9	0.0	2.0	0.0	0.0
77.5°	368.6	165.8	33.2	15.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0
80°	136.5	64.4	17.6	9.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	54.6	25.4	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.3	15.6	7.8	5.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.5	11.7	7.8	5.9	3.9	2.0	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)