

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: P158681

Luminaire Tested: **VST-E06-LED-E-U-SL4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158681
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E06-LED-E-U-SL4-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (126) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17860 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.5
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: 28.75 FT

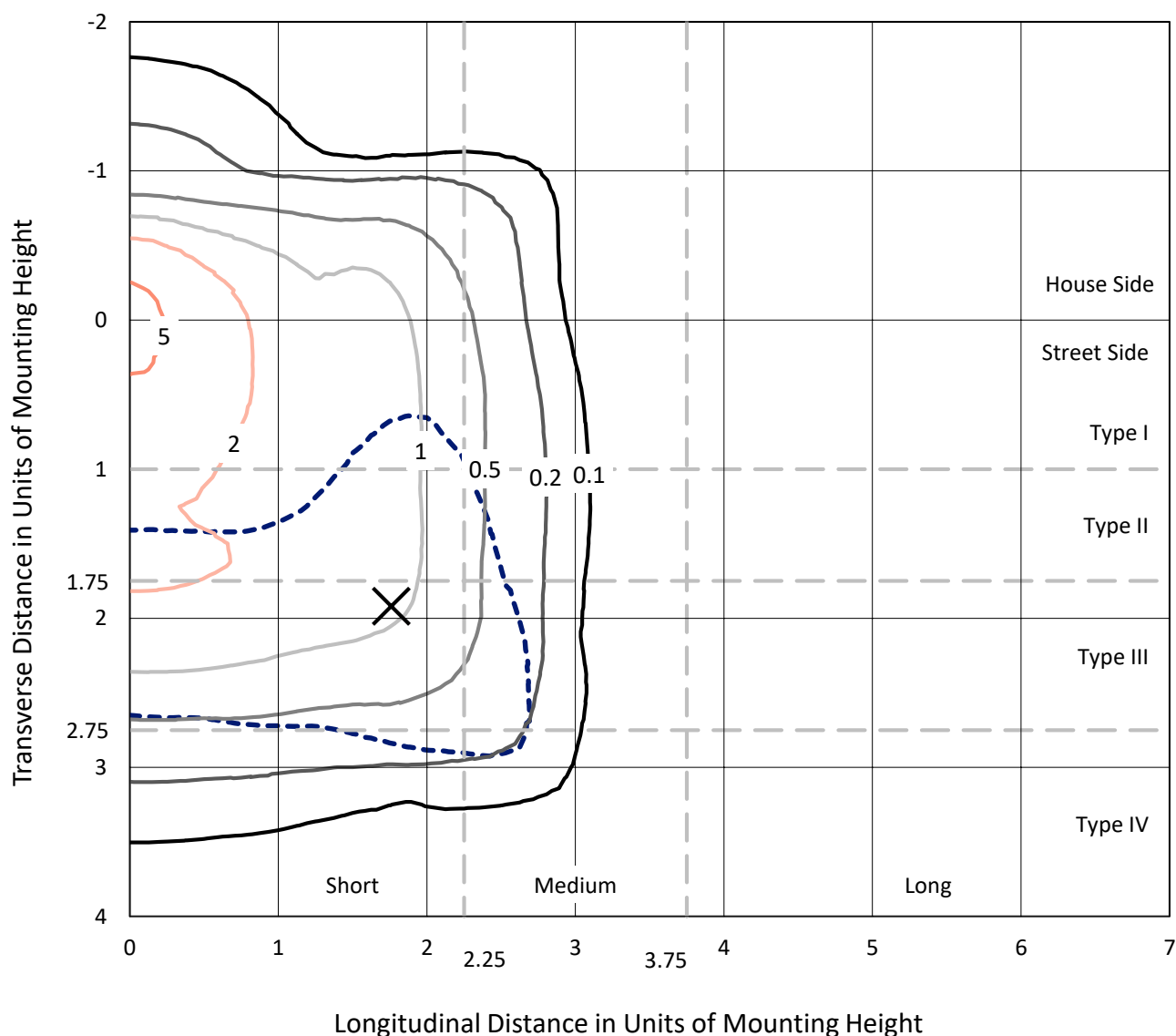


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

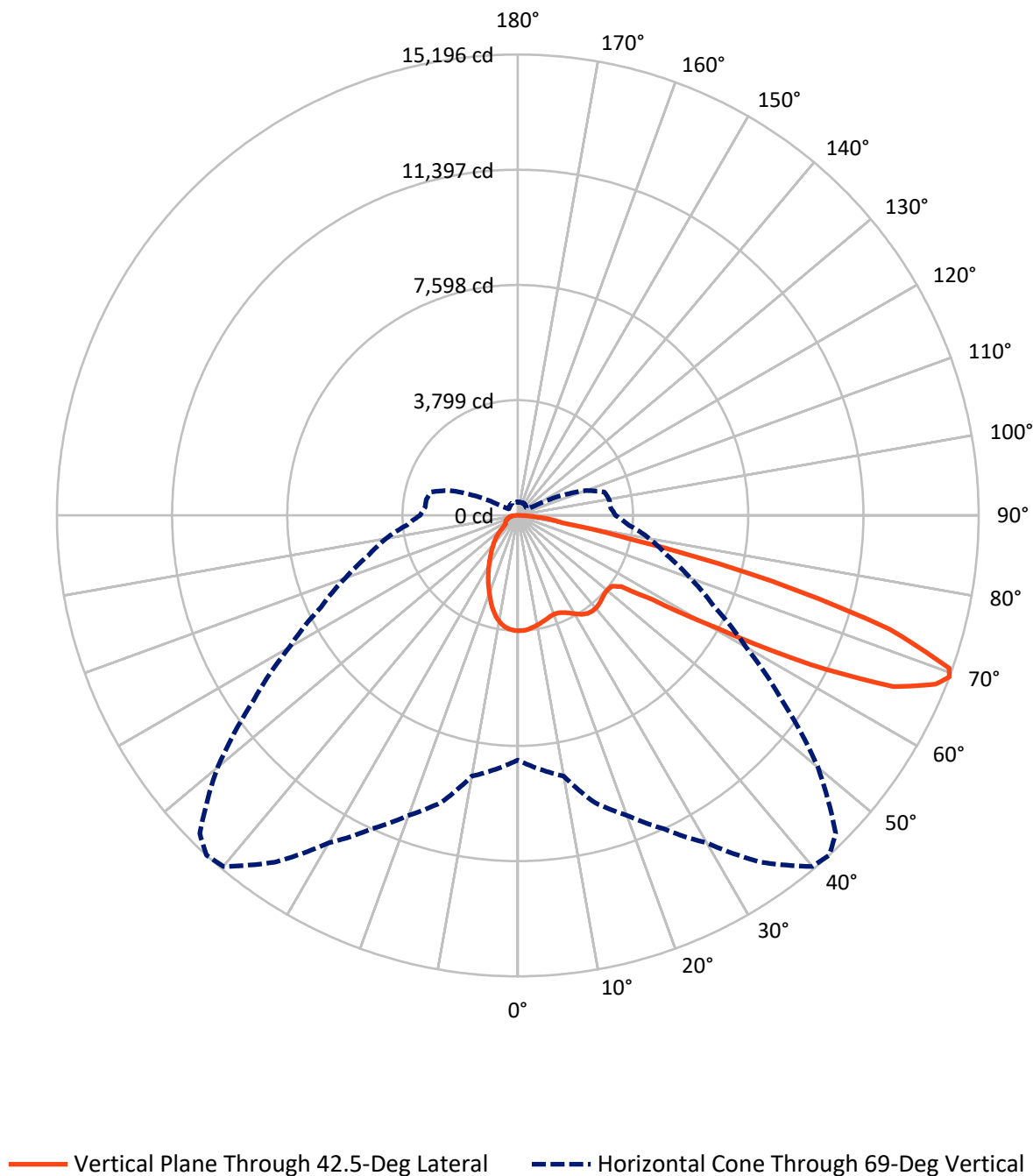


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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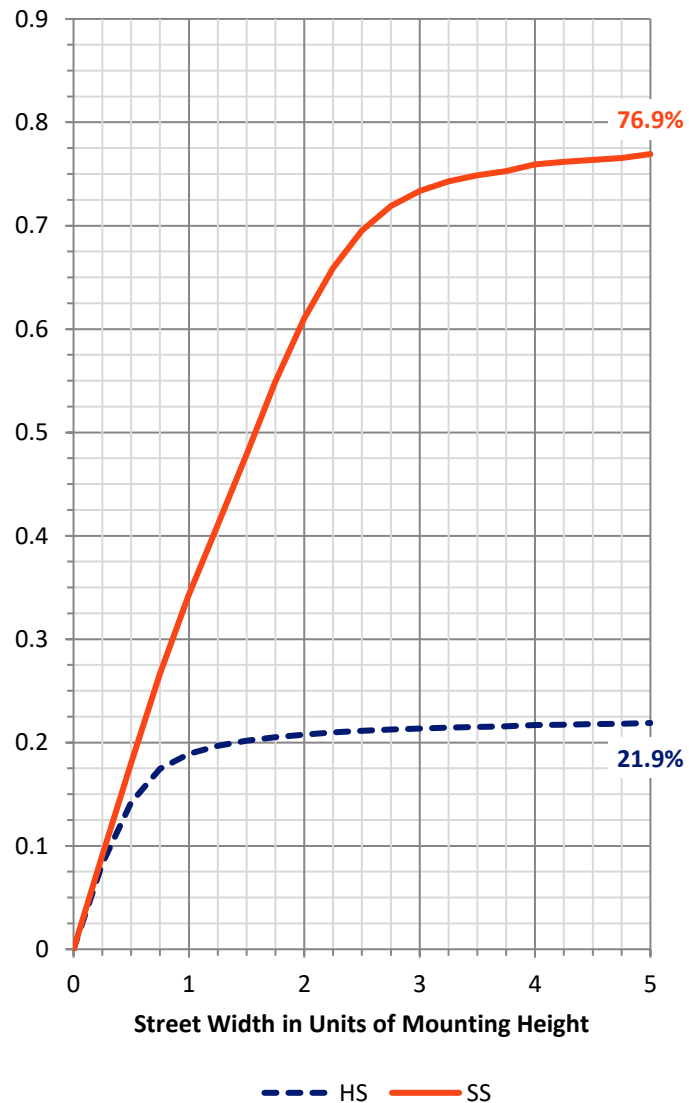
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3970.5	0.0	3970.5
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	13889.4	0.0	13889.4
	% Fixture	77.8	0.0	77.8
Total	Lumens	17860.0	0.0	17860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.1	2.0
10°-20°	954.3	5.3
20°-30°	1391.5	7.8
30°-40°	1773.9	9.9
40°-50°	2064.0	11.6
50°-60°	3140.3	17.6
60°-70°	5547.2	31.1
70°-80°	2289.1	12.8
80°-90°	345.6	1.9
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°	17860.0	100.0
0°-180°	17860.0	100.0

Coefficient of Utilization



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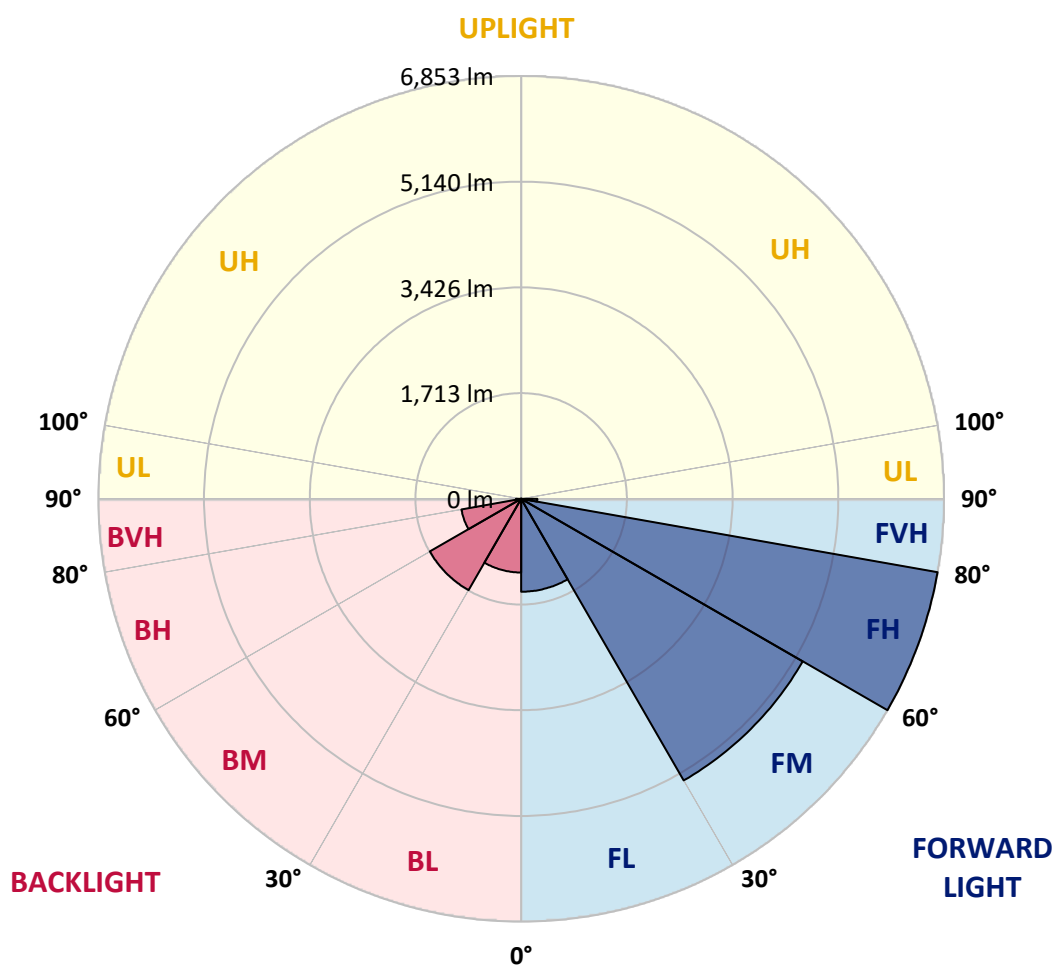
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1506.0	8.4			
FM	(30°-60°)	5269.2	29.5			
FH	(60°-80°)	6852.9	38.4			G3/7500
FVH	(80°-90°)	261.4	1.5			G3/500
BL	(0°-30°)	1193.8	6.7	B3/2500		
BM	(30°-60°)	1709.0	9.6	B2/2500		
BH	(60°-80°)	983.5	5.5	B2/1000		G2/1000
BVH	(80°-90°)	84.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	42.5°	45°
0°	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6
2.5°	3791.3	3804.8	3799.9	3799.9	3803.6	3797.4	3797.4	3799.9	3793.7	3797.4	3796.2
5°	3777.7	3785.1	3782.6	3782.6	3782.6	3777.7	3775.2	3774.0	3765.4	3765.4	3761.7
7.5°	3748.2	3750.6	3754.3	3749.4	3748.2	3746.9	3738.3	3733.4	3723.5	3714.9	3717.4
10°	3708.8	3707.5	3713.7	3710.0	3705.1	3701.4	3694.0	3685.4	3674.3	3663.2	3662.0
12.5°	3664.4	3663.2	3668.1	3665.7	3662.0	3654.6	3648.4	3633.6	3616.4	3602.9	3601.6
15°	3636.1	3632.4	3637.3	3632.4	3626.3	3618.9	3607.8	3589.3	3558.5	3545.0	3533.9
17.5°	3663.2	3657.0	3659.5	3653.3	3644.7	3625.0	3599.2	3559.8	3515.4	3492.0	3474.8
20°	3758.0	3746.9	3749.4	3743.2	3723.5	3697.7	3648.4	3579.5	3504.4	3466.2	3439.1
22.5°	3893.5	3884.8	3888.5	3882.4	3862.7	3823.3	3749.4	3650.9	3543.8	3488.3	3445.3
25°	4099.1	4106.5	4108.9	4080.6	4069.5	3996.9	3894.7	3758.0	3615.2	3549.9	3490.8
27.5°	4330.6	4330.6	4341.7	4330.6	4308.4	4223.4	4079.4	3914.4	3730.9	3642.3	3570.8
30°	4555.9	4553.4	4574.4	4571.9	4536.2	4440.2	4276.4	4075.7	3866.4	3766.6	3675.5
32.5°	4794.8	4802.2	4815.7	4810.8	4764.0	4631.0	4434.0	4216.1	3995.7	3886.1	3783.9
35°	5053.4	5057.1	5062.0	5059.5	4964.7	4797.2	4549.8	4305.9	4076.9	3968.6	3862.7
37.5°	5311.9	5308.2	5302.1	5249.1	5140.8	4908.1	4619.9	4357.7	4117.6	4000.6	3891.0
40°	5543.4	5522.5	5502.8	5420.3	5254.1	4970.9	4647.0	4370.0	4113.9	3993.2	3886.1
42.5°	5670.3	5646.9	5606.2	5502.8	5300.9	4977.0	4628.6	4333.0	4075.7	3956.3	3850.4
45°	5693.7	5676.4	5637.0	5521.3	5289.8	4937.6	4571.9	4272.7	4019.0	3899.6	3799.9
47.5°	5638.2	5624.7	5586.5	5472.0	5241.8	4878.5	4506.7	4208.7	3963.6	3851.6	3755.5
50°	5553.3	5541.0	5511.4	5406.8	5187.6	4837.9	4473.4	4175.4	3945.2	3843.0	3754.3
52.5°	5691.2	5701.0	5614.8	5500.3	5245.5	4873.6	4510.3	4209.9	3978.4	3877.4	3785.1
55°	7834.9	7821.4	7303.0	6868.3	6091.4	5387.1	4861.3	4483.3	4235.8	4134.8	4048.6
57.5°	10180.6	10133.8	9920.8	9514.5	8679.6	7565.3	6551.9	5690.0	5350.1	5204.8	5214.7
60°	10946.5	10963.7	10918.2	10774.1	10474.9	9894.9	9124.1	8476.5	7838.6	7527.1	7562.8
62.5°	11371.3	11402.1	11441.5	11409.5	11312.2	11178.0	11080.7	11139.8	11051.2	10827.1	10648.5
65°	11430.4	11493.2	11623.7	11727.2	11777.6	11904.5	12202.4	12916.6	13569.2	13612.3	13298.3
67.5°	10260.6	10434.3	10717.5	11196.5	11606.5	12057.1	12776.2	13862.3	14825.2	14857.2	14564.1
69°	8067.7	8401.3	8732.6	9802.6	10522.9	11405.8	12469.6	13953.4	15107.1	15195.8	14826.4
70°	6464.5	6662.7	6948.4	8023.3	9099.5	10224.9	11766.6	13652.9	14913.8	15092.4	14684.8
72.5°	3881.1	3957.5	4056.0	4441.4	4995.5	5997.8	8041.8	11131.2	12580.5	12819.3	12301.0
75°	2509.4	2504.5	2513.1	2620.3	2652.3	2844.4	3488.3	5726.9	8206.8	8640.2	8019.6
77.5°	1890.1	1907.3	1880.2	1890.1	1881.5	1933.2	1952.9	2050.2	3239.6	3990.7	3568.4
80°	1668.4	1677.1	1678.3	1673.4	1613.0	1608.1	1640.1	1584.7	1472.7	1494.8	1432.0
82.5°	951.8	950.6	961.7	1045.4	1079.9	1193.2	1239.9	1265.8	1168.5	1095.9	991.2
85°	616.9	621.8	634.1	660.0	634.1	644.0	632.9	655.1	600.9	557.8	498.7
87.5°	252.4	252.4	268.4	291.8	272.1	267.2	229.0	226.6	192.1	173.6	135.4
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6
2.5°	3788.8	3796.2	3792.5	3797.4	3793.7	3793.7	3788.8	3787.6	3791.3	3786.3	3787.6
5°	3755.5	3756.8	3750.6	3753.1	3745.7	3743.2	3739.5	3729.7	3735.8	3729.7	3732.2
7.5°	3707.5	3703.8	3695.2	3682.9	3674.3	3670.6	3663.2	3649.7	3652.1	3641.0	3647.2
10°	3646.0	3633.6	3618.9	3600.4	3588.1	3577.0	3561.0	3545.0	3536.4	3526.5	3525.3
12.5°	3577.0	3562.2	3542.5	3514.2	3487.1	3468.6	3444.0	3415.7	3407.1	3391.1	3382.5
15°	3501.9	3478.5	3455.1	3423.1	3393.5	3365.2	3332.0	3296.3	3272.9	3248.2	3229.8
17.5°	3434.2	3407.1	3376.3	3345.5	3313.5	3279.0	3237.2	3192.8	3158.4	3112.8	3075.9
20°	3381.2	3346.7	3316.0	3283.9	3248.2	3206.4	3155.9	3099.2	3041.4	2990.9	2947.8
22.5°	3360.3	3306.1	3269.2	3237.2	3201.4	3152.2	3090.6	3024.1	2954.0	2883.8	2827.1
25°	3377.5	3297.5	3239.6	3201.4	3170.7	3120.2	3051.2	2970.0	2888.7	2805.0	2728.6
27.5°	3428.0	3325.8	3242.1	3181.7	3146.0	3095.6	3022.9	2936.7	2840.7	2747.1	2653.5
30°	3506.8	3373.8	3267.9	3183.0	3127.6	3069.7	2993.4	2893.6	2796.3	2689.2	2587.0
32.5°	3583.2	3424.3	3297.5	3187.9	3102.9	3027.8	2942.9	2844.4	2739.7	2627.7	2521.8
35°	3637.3	3457.6	3308.6	3176.8	3064.8	2971.2	2880.1	2781.6	2679.4	2564.9	2456.5
37.5°	3663.2	3476.0	3309.8	3147.3	3014.3	2910.9	2813.6	2716.3	2620.3	2511.9	2409.7
40°	3662.0	3474.8	3292.6	3109.1	2954.0	2844.4	2748.3	2653.5	2563.6	2468.8	2376.5
42.5°	3634.9	3455.1	3267.9	3072.2	2910.9	2789.0	2689.2	2598.1	2521.8	2438.0	2360.5
45°	3593.0	3421.9	3242.1	3054.9	2898.5	2776.6	2670.7	2582.1	2514.4	2438.0	2371.5
47.5°	3561.0	3403.4	3245.8	3085.7	2936.7	2809.9	2697.8	2600.6	2542.7	2481.1	2434.3
50°	3565.9	3412.0	3258.1	3104.2	2963.8	2835.7	2727.4	2638.7	2596.9	2580.9	2569.8
52.5°	3591.8	3425.6	3295.0	3202.7	3154.7	3058.6	2994.6	2939.2	2970.0	2909.6	2838.2
55°	3921.8	3867.6	3994.4	4113.9	4265.3	4322.0	4267.8	4257.9	4307.2	4102.8	3633.6
57.5°	5284.9	5425.2	5621.0	5724.4	5850.0	5816.8	5691.2	5586.5	5463.4	5224.5	4639.6
60°	7603.4	7497.5	7408.9	7158.9	6954.5	6715.7	6449.7	6221.9	6003.9	5660.4	5027.5
62.5°	9992.2	9257.1	8642.7	8049.2	7571.4	7174.9	6789.5	6447.2	6117.2	5638.2	4957.3
65°	12058.4	10510.6	9356.9	8486.3	7788.1	7186.0	6691.0	6218.2	5798.3	5236.8	4563.3
67.5°	12986.8	11047.5	9369.2	8121.8	7155.2	6337.6	5697.3	4983.2	4512.8	4153.3	3774.0
69°	12917.8	10637.4	8700.6	7165.1	6054.4	5101.4	4414.3	3669.4	3218.7	3066.0	3057.4
70°	12590.3	9943.0	7919.9	6388.1	5117.4	4170.5	3511.7	2843.1	2423.3	2318.6	2504.5
72.5°	10279.1	7025.9	4963.5	3790.0	2914.5	2303.8	1879.0	1491.1	1190.7	1031.9	1066.3
75°	5805.7	3253.2	2103.1	1589.6	1343.4	1110.7	953.0	812.7	735.1	597.2	472.8
77.5°	2110.5	1396.3	1110.7	960.4	680.9	469.1	392.8	343.5	311.5	311.5	296.7
80°	1334.8	1051.6	733.9	502.4	371.9	323.8	283.2	248.7	229.0	224.1	229.0
82.5°	833.6	644.0	411.3	315.2	264.7	237.6	206.9	181.0	165.0	161.3	168.7
85°	411.3	318.9	250.0	222.9	209.3	194.5	171.2	146.5	141.6	151.5	177.3
87.5°	123.1	109.6	89.9	93.6	98.5	96.0	76.3	66.5	62.8	82.5	129.3
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6	3803.6
2.5°	3790.0	3788.8	3791.3	3787.6	3790.0	3791.3	3788.8	3799.9	3792.5	3793.7	3798.6
5°	3734.6	3732.2	3742.0	3739.5	3744.5	3749.4	3746.9	3762.9	3756.8	3761.7	3771.6
7.5°	3642.3	3647.2	3648.4	3648.4	3658.3	3674.3	3678.0	3687.8	3687.8	3701.4	3711.2
10°	3519.1	3520.4	3527.8	3526.5	3538.8	3556.1	3558.5	3575.8	3581.9	3604.1	3617.6
12.5°	3376.3	3370.1	3368.9	3367.7	3383.7	3402.2	3404.6	3434.2	3446.5	3466.2	3488.3
15°	3216.2	3200.2	3195.3	3205.1	3201.4	3212.5	3223.6	3239.6	3256.9	3296.3	3316.0
17.5°	3059.8	3027.8	3019.2	3008.1	2997.0	2997.0	3002.0	3021.7	3057.4	3078.3	3122.6
20°	2899.8	2861.6	2830.8	2801.3	2775.4	2765.6	2766.8	2791.4	2817.3	2851.8	2893.6
22.5°	2765.6	2707.7	2654.7	2615.3	2562.4	2561.2	2553.8	2561.2	2589.5	2598.1	2621.5
25°	2649.8	2572.2	2500.8	2436.8	2385.1	2358.0	2350.6	2348.1	2334.6	2330.9	2313.7
27.5°	2559.9	2466.3	2374.0	2296.4	2232.4	2195.5	2148.7	2115.4	2067.4	2055.1	2024.3
30°	2486.0	2385.1	2284.1	2183.1	2110.5	2044.0	1965.2	1907.3	1833.4	1785.4	1743.6
32.5°	2414.6	2312.4	2210.2	2110.5	1998.4	1895.0	1791.6	1701.7	1619.2	1545.3	1483.7
35°	2355.5	2258.3	2154.8	2034.2	1891.3	1742.3	1618.0	1515.8	1402.5	1324.9	1247.3
37.5°	2317.4	2228.7	2125.3	1959.0	1775.6	1615.5	1473.9	1349.5	1233.8	1116.8	1029.4
40°	2300.1	2222.5	2093.3	1890.1	1674.6	1497.3	1340.9	1203.0	1055.2	923.5	829.9
42.5°	2298.9	2220.1	2048.9	1813.7	1590.9	1397.6	1223.9	1058.9	895.2	759.7	667.4
45°	2321.1	2216.4	2002.1	1749.7	1517.0	1315.1	1108.2	907.5	724.0	623.1	573.8
47.5°	2380.2	2222.5	1964.0	1690.6	1446.8	1215.3	975.2	741.3	589.8	543.0	543.0
50°	2486.0	2258.3	1954.1	1648.7	1376.6	1099.6	812.7	598.4	522.1	522.1	536.9
52.5°	2648.6	2333.4	1971.4	1619.2	1289.2	946.9	640.3	515.9	501.1	514.7	534.4
55°	3022.9	2466.3	1994.7	1568.7	1156.2	751.1	528.2	487.6	493.8	509.8	528.2
57.5°	3710.0	2750.8	2019.4	1457.9	942.0	578.7	479.0	476.5	487.6	502.4	518.4
60°	4161.9	3112.8	2082.2	1290.4	712.9	477.8	454.4	469.1	482.7	495.0	507.3
62.5°	4161.9	3215.0	2129.0	1103.3	535.6	434.7	438.4	461.7	477.8	483.9	491.3
65°	3895.9	3027.8	1970.1	898.9	435.9	410.0	423.6	447.0	461.7	466.7	472.8
67.5°	3404.6	2674.4	1659.8	677.2	389.1	389.1	406.3	423.6	435.9	445.7	455.6
69°	2960.1	2399.9	1461.6	573.8	370.6	373.1	390.3	405.1	419.9	432.2	444.5
70°	2640.0	2194.2	1323.7	520.9	359.5	360.8	378.0	394.0	407.6	421.1	435.9
72.5°	1413.6	1515.8	1006.0	427.3	331.2	334.9	350.9	365.7	378.0	391.6	405.1
75°	481.4	651.4	640.3	349.7	299.2	309.1	318.9	332.5	348.5	357.1	364.5
77.5°	282.0	291.8	341.1	284.4	269.7	274.6	285.7	296.7	310.3	318.9	325.1
80°	236.4	235.2	236.4	231.5	235.2	246.3	253.7	268.4	280.7	283.2	282.0
82.5°	192.1	201.9	203.2	200.7	211.8	220.4	226.6	235.2	234.0	236.4	241.3
85°	171.2	169.9	178.5	179.8	179.8	173.6	174.8	174.8	174.8	178.5	179.8
87.5°	171.2	142.8	110.8	99.7	104.7	98.5	93.6	92.3	102.2	112.1	109.6
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):

	160°	165°	170°	175°	180°
0°	3803.6	3803.6	3803.6	3803.6	3803.6
2.5°	3801.1	3804.8	3802.3	3802.3	3804.8
5°	3775.2	3781.4	3778.9	3781.4	3781.4
7.5°	3716.1	3724.8	3730.9	3737.1	3733.4
10°	3631.2	3646.0	3655.8	3663.2	3659.5
12.5°	3504.4	3517.9	3538.8	3551.1	3541.3
15°	3330.7	3368.9	3381.2	3398.5	3388.6
17.5°	3149.7	3173.1	3187.9	3203.9	3213.8
20°	2908.4	2926.9	2946.6	2954.0	2942.9
22.5°	2617.8	2627.7	2624.0	2635.0	2612.9
25°	2298.9	2305.0	2301.3	2311.2	2292.7
27.5°	1997.2	1996.0	1997.2	1984.9	1972.6
30°	1706.6	1695.5	1690.6	1672.1	1668.4
32.5°	1446.8	1408.6	1388.9	1361.8	1355.7
35°	1187.0	1132.8	1097.1	1066.3	1052.8
37.5°	954.3	889.0	847.2	820.1	816.4
40°	754.8	694.5	664.9	650.1	647.7
42.5°	615.7	589.8	582.4	582.4	582.4
45°	561.5	560.3	566.4	571.3	572.6
47.5°	550.4	557.8	566.4	573.8	576.3
50°	550.4	557.8	563.9	571.3	573.8
52.5°	547.9	554.1	556.6	561.5	563.9
55°	540.6	544.2	544.2	546.7	549.2
57.5°	528.2	530.7	527.0	529.5	535.6
60°	515.9	518.4	512.2	518.4	522.1
62.5°	502.4	503.6	501.1	506.1	506.1
65°	480.2	477.8	481.4	485.1	486.4
67.5°	458.1	451.9	455.6	456.8	459.3
69°	440.8	437.1	438.4	440.8	443.3
70°	428.5	426.0	428.5	432.2	435.9
72.5°	397.7	398.9	407.6	415.0	422.3
75°	369.4	378.0	389.1	405.1	413.7
77.5°	334.9	341.1	349.7	366.9	382.9
80°	289.4	293.1	294.3	300.4	299.2
82.5°	235.2	231.5	229.0	226.6	225.3
85°	168.7	167.5	157.6	150.2	150.2
87.5°	101.0	96.0	91.1	85.0	81.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)