

Scaled data based on original data using
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 767435_350MP

Luminaire Tested: **OVX35PXX2DG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 767435_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVX35PXX2DG
Description: 400WATT MH TYPE II ROADWAY
Light Source: 350 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 25377.1 lumens
Efficiency: 76.9%
Efficacy: 63.9 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Cutoff
BUG Rating: B3 - U3 - G4

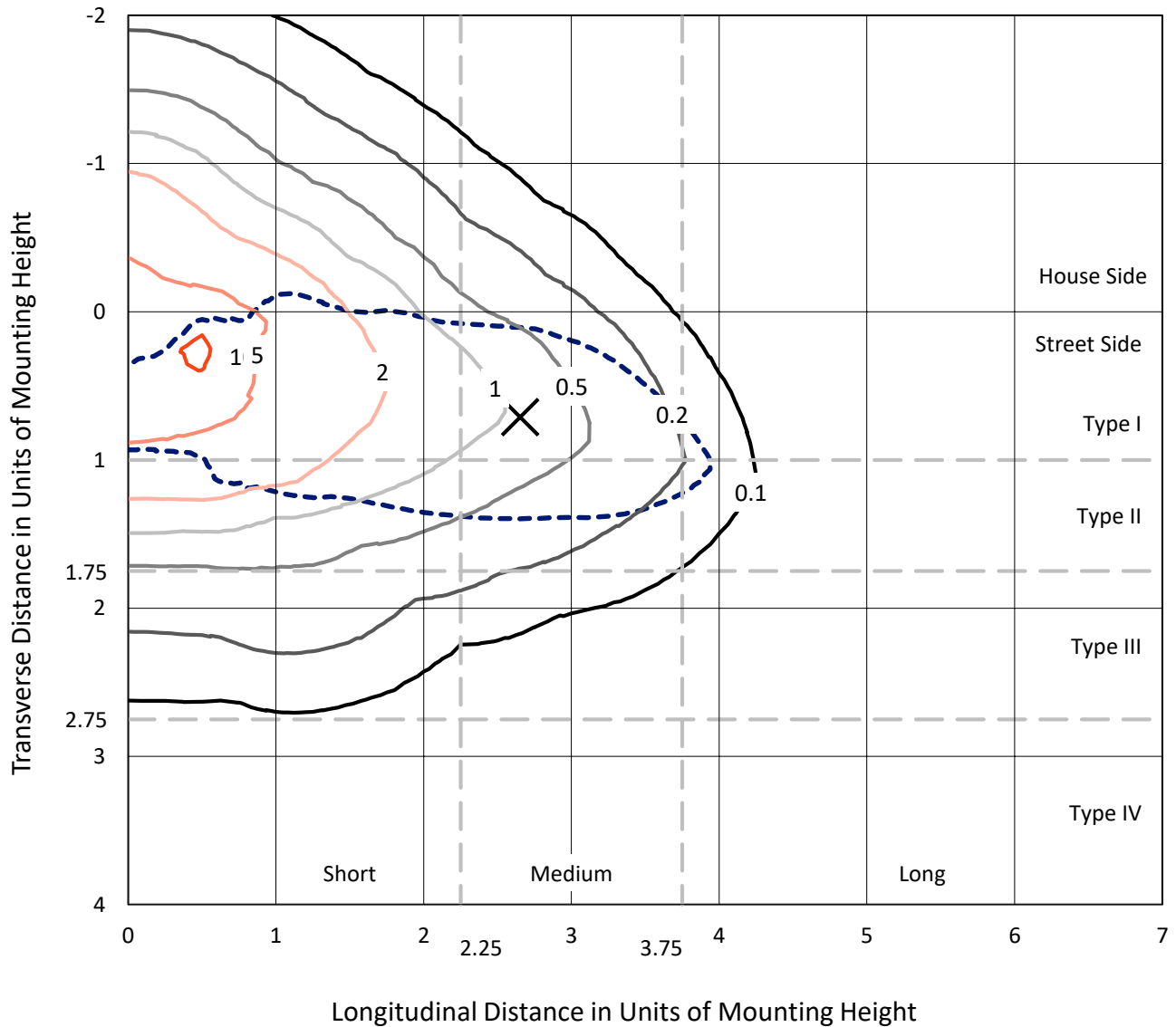
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

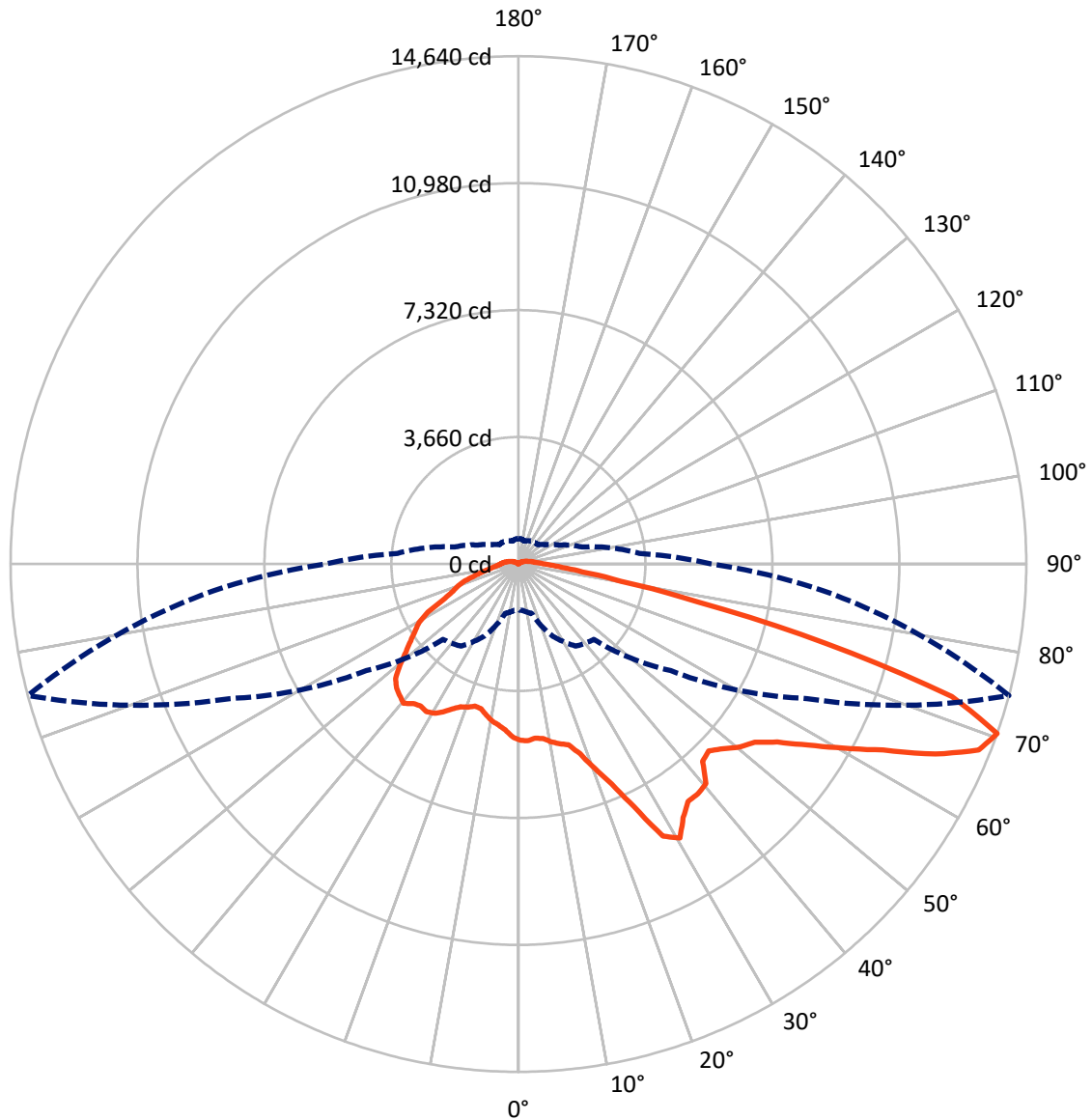
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Medium - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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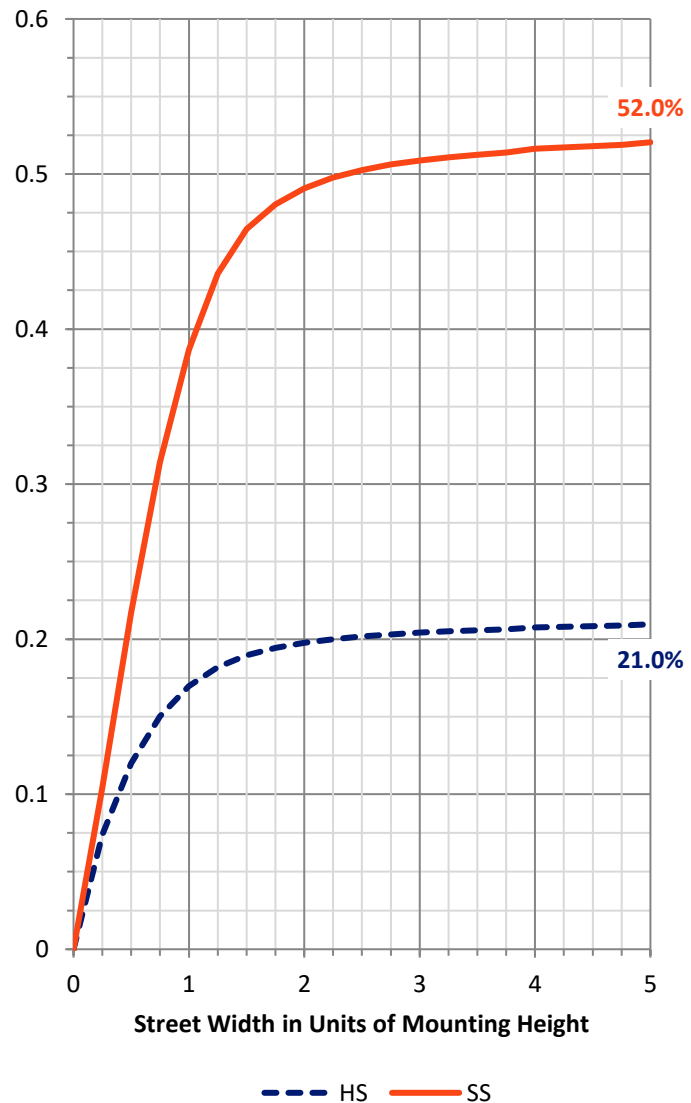
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7080.4	332.0	7412.4
	% Lamp	21.5	1.0	22.5
Street Side	Lumens	17395.0	569.6	17964.7
	% Lamp	52.7	1.7	54.4
Total	Lumens	24475.4	901.6	25377.1
	% Lamp	74.2	2.7	76.9

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	470.7	1.9	1.4
10°-20°	1439.9	5.7	4.4
20°-30°	2741.5	10.8	8.3
30°-40°	3898.1	15.4	11.8
40°-50°	4436.7	17.5	13.4
50°-60°	4496.4	17.7	13.6
60°-70°	3901.8	15.4	11.8
70°-80°	2279.8	9.0	6.9
80°-90°	810.5	3.2	2.5
90°-100°	443.4	1.7	1.3
100°-110°	272.5	1.1	0.8
110°-120°	140.5	0.6	0.4
120°-130°	52.0	0.2	0.2
130°-140°	9.7	0.0	0.0
140°-150°	0.2	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	24475.4	96.4	74.2
0°-180°	25377.1	100.0	76.9

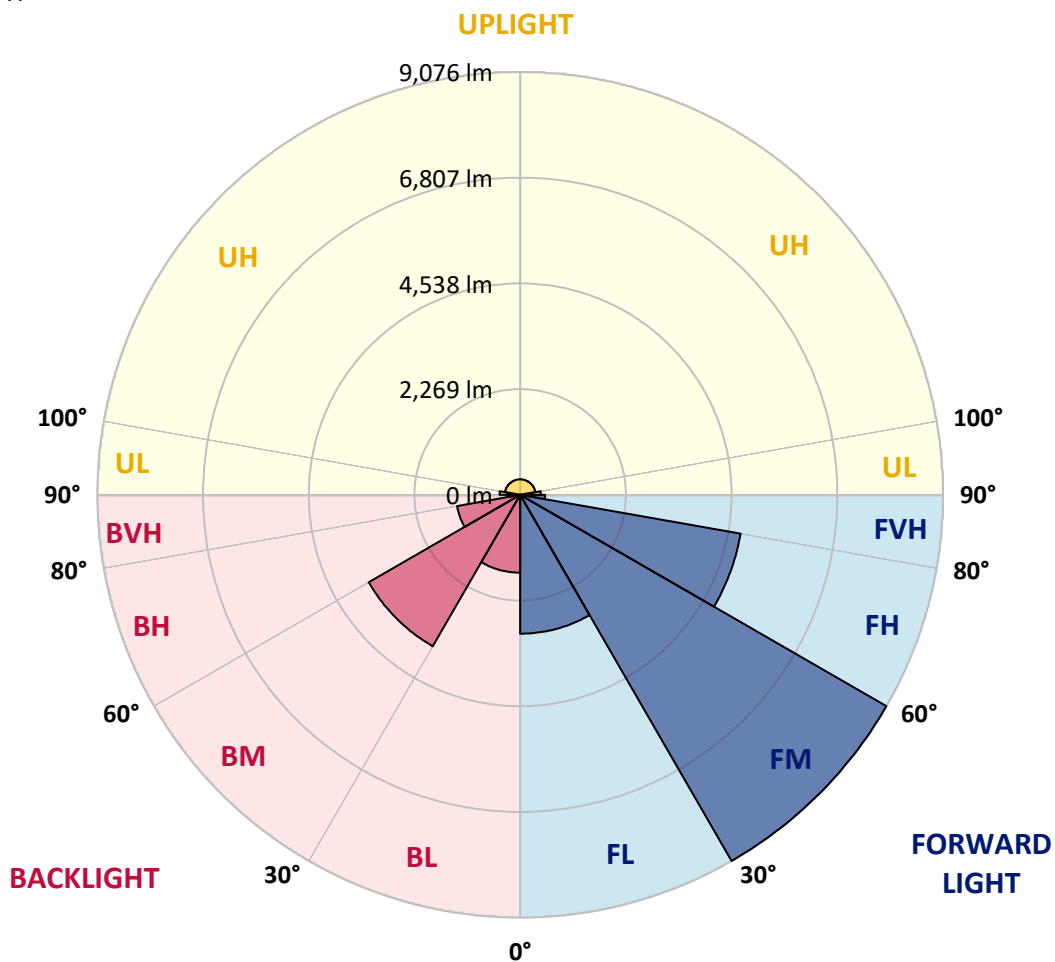


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2981.3	9.0			
FM (30°-60°)	9076.4	27.5			
FH (60°-80°)	4804.7	14.6			G2/5000
FVH (80°-90°)	532.7	1.6			G4/750
BL (0°-30°)	1670.7	5.1	B3/2500		
BM (30°-60°)	3754.9	11.4	B3/5000		
BH (60°-80°)	1377.0	4.2	B3/2500		G3/2500
BVH (80°-90°)	277.8	0.8			G3/500
UL (90°-100°)	443.4	1.3		U3/500	
UH (100°-180°)	332.0	1.0		U3/500	
Trapped Light	7622.9	23.1			

BUG Rating: B3-U3-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5078.3	5078.3	5078.3	5078.3	5078.3	5078.3	5078.3	5078.3	5078.3	5078.3	5078.3
2.5°	5257.1	5287.3	5271.8	5257.1	5220.4	5212.2	5160.8	5145.2	5101.2	5078.3	5033.4
5°	5435.8	5421.2	5421.2	5354.2	5331.3	5257.1	5197.5	5123.2	5041.7	4973.8	4922.5
7.5°	5644.8	5644.8	5614.6	5533.0	5450.5	5339.6	5302.0	5175.5	5078.3	4937.2	4884.9
10°	5883.2	5927.2	5867.6	5764.0	5621.9	5525.7	5458.8	5361.6	5212.2	5004.1	4906.9
12.5°	6136.2	6172.8	6180.2	6076.6	5860.2	5755.8	5666.8	5577.0	5316.7	5063.7	4892.2
15°	6463.4	6448.8	6567.9	6456.1	6270.0	6039.0	5934.5	5726.4	5406.5	5085.7	4877.6
17.5°	6820.9	6835.6	7037.2	6985.0	6798.9	6530.3	6358.9	6120.6	5748.4	5242.4	5011.4
20°	7223.3	7290.2	7513.9	7557.9	7290.2	7149.1	7007.0	6798.9	6292.0	5555.0	5242.4
22.5°	7610.2	7692.7	7893.4	7848.5	7624.8	7684.4	7766.9	7565.2	6887.8	5927.2	5458.8
25°	8057.5	8101.5	8191.3	8072.2	8072.2	8280.2	8548.8	8525.9	7752.2	6426.8	5800.7
27.5°	8236.2	8265.6	8228.0	8265.6	8489.2	8787.2	9390.3	9762.5	8883.4	6977.7	6239.8
30°	7788.9	7841.2	8019.9	8437.0	8861.4	9285.8	10298.8	10618.7	9166.7	7096.8	6411.2
32.5°	7282.9	7342.5	7595.5	8541.5	9166.7	9836.8	10737.8	10499.5	8720.2	6954.8	6344.2
35°	7073.9	7081.2	7223.3	8406.8	9367.4	10022.8	10499.5	10015.5	8415.0	6887.8	6307.6
37.5°	7163.8	7126.2	7193.1	8287.6	9338.1	9702.9	10022.8	9397.7	8406.8	7200.4	6627.5
40°	7491.0	7402.1	7416.8	8146.4	8995.2	9471.9	9553.5	8921.0	8325.2	7662.4	7178.4
42.5°	7416.8	7379.2	7513.9	7863.2	8503.9	9345.4	9271.2	8146.4	7781.6	7759.6	7416.8
45°	6701.8	6701.8	7007.0	7349.8	8072.2	9174.0	8965.9	7640.4	7684.4	8444.3	8325.2
47.5°	5883.2	5934.5	6255.3	6940.1	7655.1	8742.2	8973.2	7610.2	7953.0	9211.6	8995.2
50°	5510.1	5525.7	5942.8	6947.4	7565.2	8697.3	8868.8	7982.3	8287.6	8980.6	8392.1
52.5°	5093.0	5093.0	5577.0	6940.1	7700.0	9360.1	9032.8	8496.6	8534.2	8742.2	7803.6
55°	4184.6	4236.8	4609.0	6165.5	7111.5	9829.4	9591.1	8973.2	9054.8	8534.2	7304.9
57.5°	3023.2	3068.1	3447.6	4780.4	5748.4	9009.9	9896.3	9643.3	9836.8	8384.8	6977.7
60°	2308.2	2353.1	2651.0	3641.0	4400.9	7483.7	9516.8	10633.3	10768.1	8712.0	7216.0
62.5°	1950.7	1973.6	2248.6	3097.4	3872.0	5852.9	8749.6	11445.5	11803.0	9300.5	6970.3
65°	1683.0	1705.0	1966.2	2889.3	3864.7	4787.8	7819.2	11407.9	13210.1	9009.9	5883.2
67.5°	1489.6	1518.9	1735.2	2739.9	3619.0	3991.2	6783.3	10596.7	14311.9	9032.8	5659.5
70°	1325.5	1340.2	1474.0	2271.5	2889.3	3075.4	5354.2	9174.0	14640.1	8823.8	5555.0
72.5°	1191.7	1206.3	1287.9	1668.3	2092.8	2315.5	3909.6	7469.0	13068.9	7304.9	4631.9
75°	1087.2	1094.5	1161.4	1303.5	1563.8	1883.8	2867.3	5696.2	9166.7	4922.5	3388.0
77.5°	968.0	968.0	1049.6	1094.5	1265.9	1571.2	2204.6	3909.6	5316.7	3037.8	2308.2
80°	848.8	863.5	960.7	946.0	1072.5	1310.8	1661.0	2494.2	2986.5	1883.8	1533.6
82.5°	759.9	781.9	856.2	841.5	938.7	1087.2	1243.9	1601.4	1854.4	1325.5	1079.8
85°	684.8	692.1	751.7	751.7	819.5	886.4	960.7	1117.4	1287.9	1020.2	819.5
87.5°	610.5	625.2	655.4	662.8	715.0	722.3	767.2	834.2	938.7	774.6	655.4
90°	550.9	565.6	573.8	588.5	617.8	610.5	632.5	655.4	715.0	632.5	565.6
95°	462.0	454.7	462.0	484.0	491.3	484.0	469.3	476.7	484.0	462.0	446.4
105°	312.6	319.9	327.2	342.8	342.8	319.9	305.2	297.9	283.2	283.2	283.2
115°	208.1	216.3	216.3	216.3	208.1	193.4	171.4	171.4	164.1	171.4	171.4
125°	104.5	97.2	74.2	59.6	44.9	52.2	66.9	81.6	88.9	81.6	81.6
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	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):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5078.3	5078.3	5078.3	5078.3	5078.3	5078.3	5078.3	5078.3	5078.3	5078.3
2.5°	5041.7	4982.1	4944.5	4906.9	4758.4	4870.2	4847.3	4736.4	4832.7	4870.2
5°	4892.2	4796.0	4758.4	4676.8	4534.8	4609.0	4609.0	4467.8	4609.0	4601.7
7.5°	4787.8	4676.8	4542.1	4445.8	4252.4	4341.3	4370.7	4214.8	4370.7	4348.7
10°	4780.4	4587.0	4356.0	4229.5	4005.8	4133.2	4103.0	3991.2	4140.6	4140.6
12.5°	4765.8	4453.2	4222.2	4050.8	3819.8	3924.2	3902.2	3805.1	3946.2	3976.5
15°	4713.5	4303.8	4050.8	3872.0	3685.9	3767.5	3767.5	3685.9	3872.0	3872.0
17.5°	4758.4	4281.8	3938.9	3775.8	3626.3	3678.6	3685.9	3649.2	3842.7	3827.1
20°	4906.9	4378.9	3954.5	3738.2	3552.1	3597.0	3574.1	3589.7	3767.5	3797.8
22.5°	5093.0	4438.5	4021.4	3700.6	3440.2	3425.6	3402.7	3492.5	3574.1	3619.0
25°	5361.6	4587.0	4095.7	3656.6	3343.1	3261.5	3232.2	3299.1	3388.0	3410.9
27.5°	5636.6	4787.8	4095.7	3619.0	3246.8	3164.3	3127.7	3194.6	3306.4	3306.4
30°	5883.2	4944.5	4005.8	3507.2	3164.3	3104.8	3068.1	3164.3	3299.1	3321.1
32.5°	5972.1	5018.8	3909.6	3388.0	3135.0	3082.8	3075.4	3223.9	3373.3	3425.6
35°	5874.9	4966.5	3864.7	3239.5	3082.8	3046.1	3097.4	3283.5	3477.8	3530.1
37.5°	6046.3	5033.4	3760.2	3075.4	2934.2	2918.7	3023.2	3246.8	3507.2	3530.1
40°	6545.9	5204.8	3797.8	2948.9	2762.8	2777.5	2896.7	3135.0	3462.2	3470.5
42.5°	6791.6	5108.6	3685.9	2882.0	2598.8	2620.8	2755.5	3015.8	3283.5	3351.3
45°	7491.0	5011.4	3462.2	2755.5	2464.9	2412.7	2584.1	2792.2	3015.8	3068.1
47.5°	7759.6	4840.0	3335.8	2569.4	2241.2	2204.6	2390.7	2539.2	2725.2	2739.9
50°	7089.5	4482.5	3291.8	2427.3	2033.2	2025.8	2211.9	2315.5	2464.9	2457.6
52.5°	6575.2	4110.3	3142.3	2286.2	1847.1	1831.5	2010.2	2122.1	2204.6	2219.2
55°	6076.6	3812.4	2963.6	2047.8	1675.7	1608.8	1742.6	1906.7	1950.7	1950.7
57.5°	5764.0	3552.1	2695.9	1838.8	1504.2	1430.0	1482.2	1623.4	1690.3	1668.3
60°	5942.8	3321.1	2375.1	1652.8	1318.2	1258.6	1258.6	1363.1	1452.0	1430.0
62.5°	5428.5	2956.2	2069.8	1474.0	1168.8	1101.8	1072.5	1132.1	1206.3	1206.3
65°	4311.1	2398.0	1764.6	1303.5	1042.2	968.0	930.4	938.7	1012.9	1027.6
67.5°	3767.5	2077.2	1489.6	1146.8	915.8	870.8	848.8	811.2	870.8	879.1
70°	3499.8	1891.1	1287.9	968.0	789.2	774.6	744.3	684.8	729.7	729.7
72.5°	3023.2	1668.3	1168.8	856.2	692.1	700.3	670.1	603.2	625.2	625.2
75°	2390.7	1354.8	1034.9	789.2	640.8	648.1	625.2	536.2	558.2	550.9
77.5°	1757.2	1094.5	879.1	707.7	573.8	588.5	565.6	476.7	491.3	491.3
80°	1295.2	901.1	729.7	625.2	521.6	528.9	506.0	417.1	446.4	431.8
82.5°	975.3	759.9	632.5	558.2	462.0	484.0	462.0	372.2	386.8	386.8
85°	751.7	655.4	565.6	506.0	431.8	439.1	417.1	335.5	350.2	342.8
87.5°	610.5	573.8	521.6	469.3	386.8	409.8	379.5	290.6	312.6	297.9
90°	528.9	521.6	484.0	439.1	350.2	364.8	342.8	260.3	267.7	267.7
95°	439.1	446.4	409.8	372.2	275.9	290.6	253.0	186.1	200.8	208.1
105°	290.6	283.2	267.7	231.0	133.8	148.5	133.8	59.6	133.8	133.8
115°	171.4	164.1	126.5	88.9	22.0	29.3	37.6	22.0	22.0	0.0
125°	74.2	59.6	44.9	22.0	0.0	7.3	7.3	0.0	14.7	14.7
135°	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)