

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: P149656

Luminaire Tested: **TMU-F04-LED-E-U-SL2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149656
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-F04-LED-E-U-SL2-HSS-7050
Description: TALON MEDIUM LED AREA LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6212.7 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 102.2
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

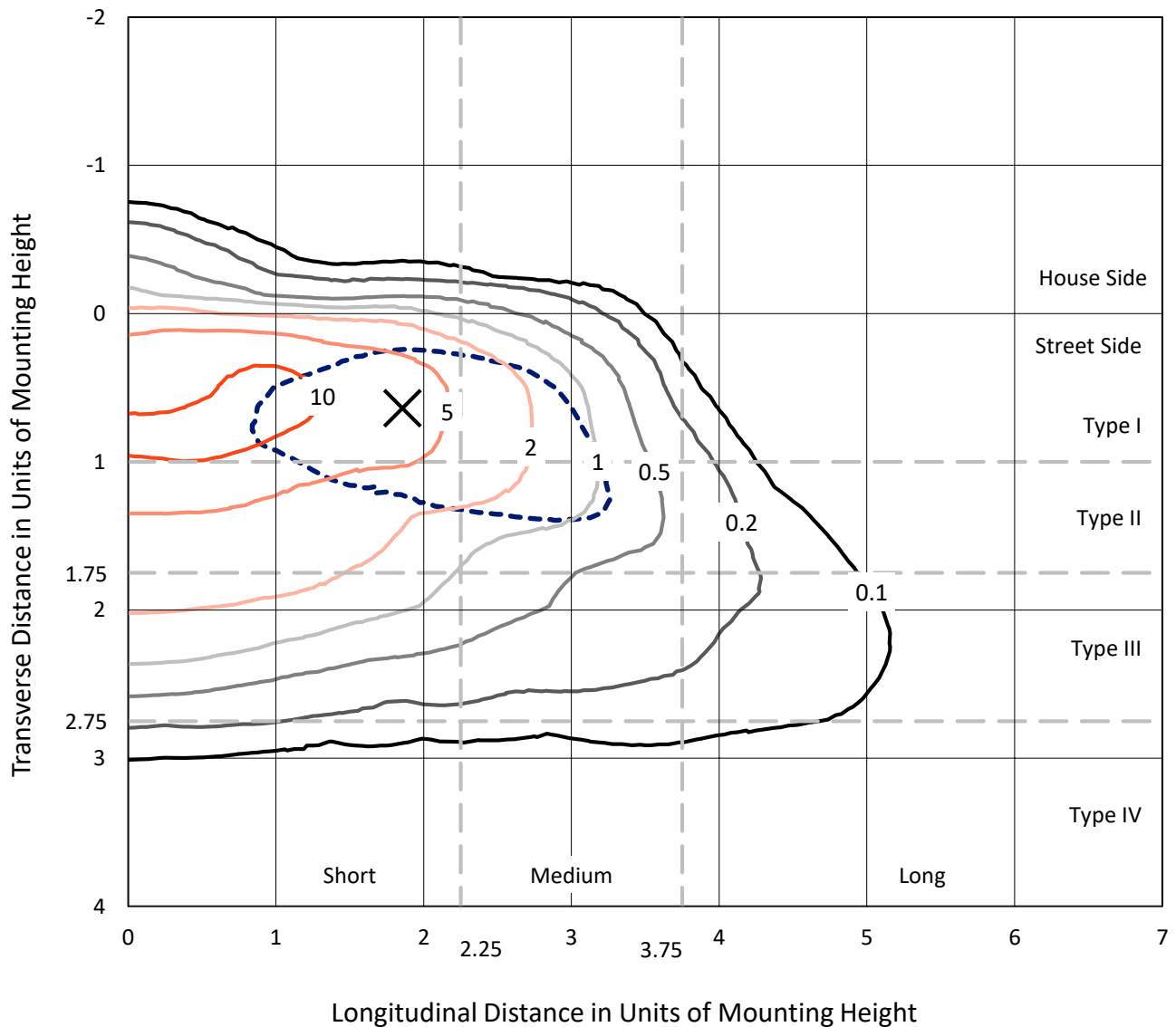


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Iso-Footcandle Lines of Horizontal Illumination

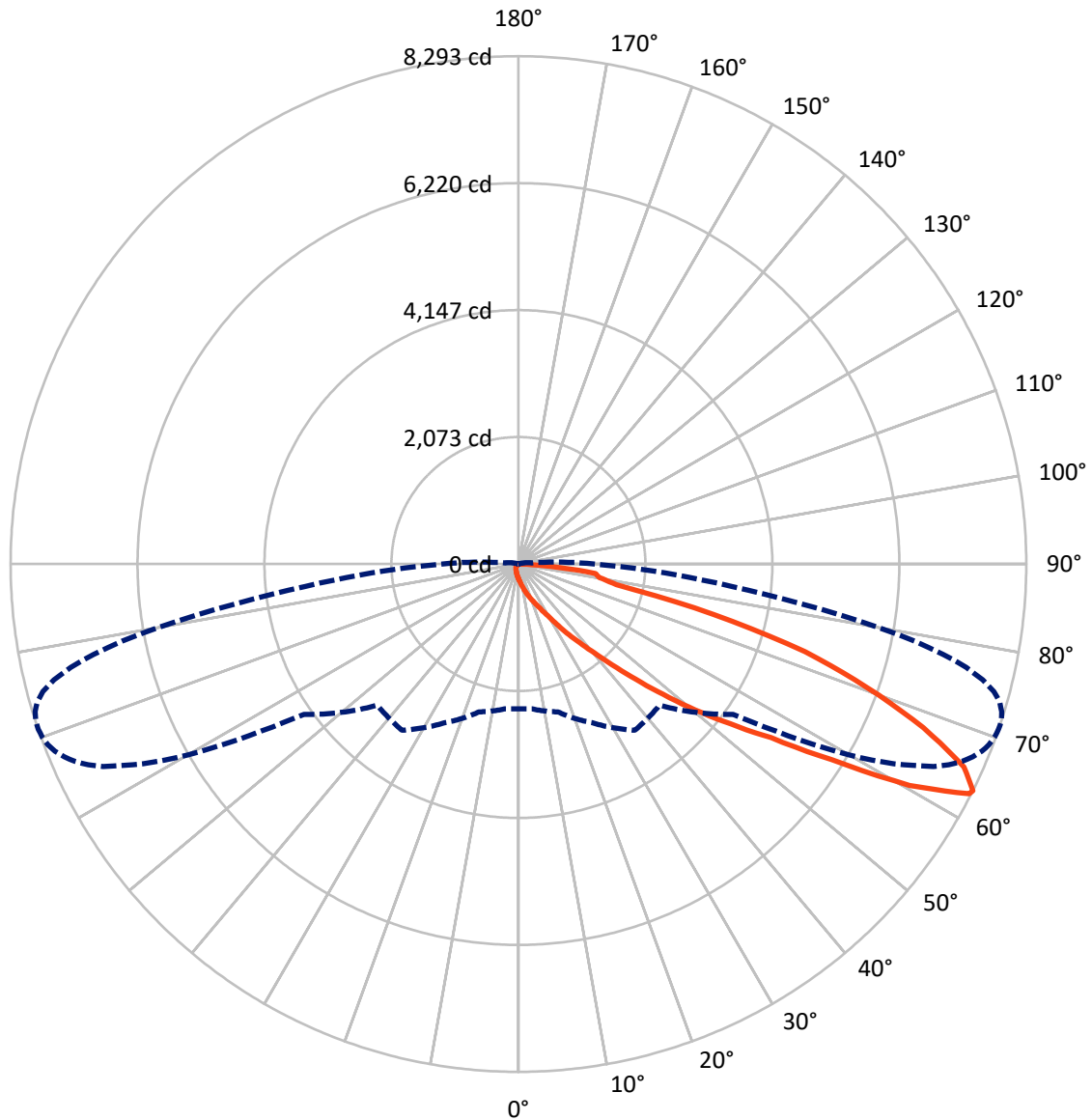
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	131.9	0.0	131.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	6080.8	0.0	6080.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	6212.7	0.0	6212.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	0.4
10°-20°	102.2	1.6
20°-30°	207.5	3.3
30°-40°	506.9	8.2
40°-50°	1133.7	18.2
50°-60°	1594.1	25.7
60°-70°	1874.6	30.2
70°-80°	676.9	10.9
80°-90°	90.5	1.5
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°	6212.7	100.0
0°-180°	6212.7	100.0

Coefficient of Utilization



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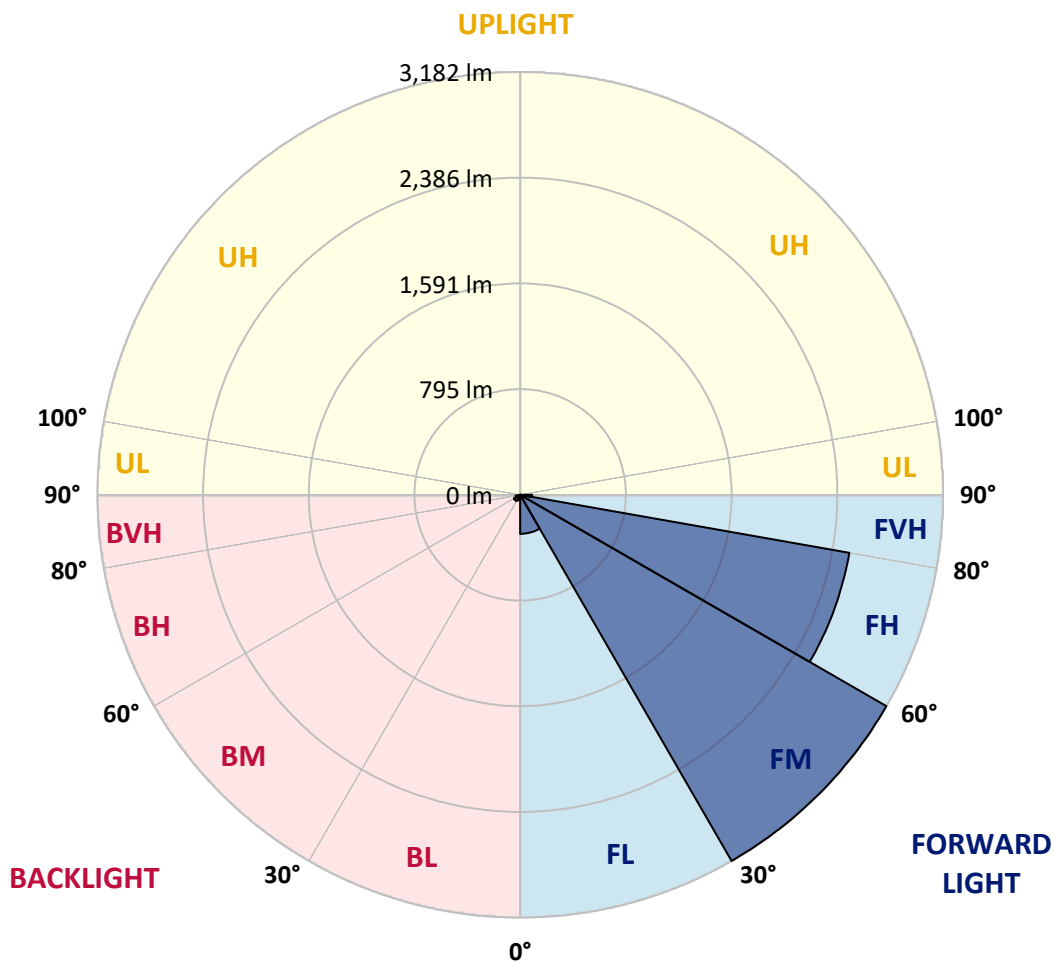
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.6	4.7			
FM	(30°-60°)	3181.6	51.2			
FH	(60°-80°)	2515.3	40.5			G2/5000
FVH	(80°-90°)	90.3	1.5			G1/100
BL	(0°-30°)	42.4	0.7	B0/110		
BM	(30°-60°)	53.1	0.9	B0/220		
BH	(60°-80°)	36.2	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3
2.5°	311.7	315.1	312.9	307.2	300.4	291.4	283.5	283.5	282.4	279.0	280.1
5°	408.9	410.0	405.5	391.9	379.5	360.3	338.8	336.6	334.3	330.9	329.8
7.5°	503.7	508.2	503.7	489.0	464.2	434.8	400.9	397.6	390.8	390.8	386.3
10°	600.9	600.9	596.3	579.4	556.8	515.0	472.1	466.5	458.6	456.3	449.5
12.5°	669.8	669.8	667.5	658.5	640.4	603.1	551.2	545.5	535.4	532.0	524.1
15°	696.9	696.9	698.0	705.9	707.0	690.1	635.9	631.4	621.2	612.2	608.8
17.5°	713.8	712.7	712.7	724.0	744.3	755.6	720.6	716.1	704.8	700.2	689.0
20°	751.1	748.8	742.0	742.0	761.2	800.8	800.8	799.6	787.2	783.8	778.2
22.5°	806.4	804.2	783.8	766.9	775.9	825.6	871.9	869.7	865.1	860.6	857.2
25°	896.8	888.9	853.9	804.2	796.3	849.3	926.1	931.8	935.2	935.2	937.4
27.5°	1033.4	1023.3	961.1	868.5	833.5	887.7	986.0	997.3	1007.5	1009.7	1019.9
30°	1223.2	1205.1	1115.9	980.3	900.2	944.2	1074.1	1086.5	1101.2	1105.7	1121.5
32.5°	1534.9	1524.7	1438.9	1235.6	1063.9	1054.9	1197.2	1213.0	1232.2	1240.1	1259.3
35°	2009.3	2011.5	1941.5	1758.5	1521.3	1397.1	1417.4	1431.0	1437.8	1461.5	1471.7
37.5°	2331.2	2336.8	2352.6	2280.3	2110.9	1984.4	1825.2	1839.8	1804.8	1808.2	1809.4
40°	2507.3	2525.4	2618.0	2688.1	2674.5	2601.1	2473.5	2481.4	2415.9	2401.2	2330.0
42.5°	2624.8	2648.5	2796.5	3013.3	3124.0	3190.7	3161.3	3157.9	3107.1	3087.9	3028.0
45°	2698.2	2719.7	2906.0	3225.7	3480.9	3675.2	3755.4	3764.4	3721.5	3702.3	3652.6
47.5°	2694.8	2719.7	2919.6	3304.7	3680.8	3991.4	4217.3	4228.6	4254.6	4237.6	4241.0
50°	2545.7	2569.5	2770.5	3170.3	3622.1	4136.0	4549.4	4585.5	4627.3	4655.5	4669.1
52.5°	2365.0	2382.0	2560.4	2939.9	3371.4	4076.1	4745.9	4808.0	4870.1	4923.2	4960.5
55°	2298.4	2317.6	2457.6	2772.8	3170.3	3825.4	4837.4	4928.9	5016.9	5103.9	5175.1
57.5°	2333.4	2351.5	2452.0	2693.7	3050.6	3561.1	4863.3	5005.7	5150.2	5291.4	5431.4
60°	2462.2	2481.4	2567.2	2767.1	3019.0	3408.6	4761.7	4997.7	5238.3	5484.5	5716.1
62.5°	2411.3	2419.2	2545.7	2895.9	3244.9	3278.7	4392.4	4722.2	5089.2	5468.7	5842.6
63°	2362.8	2371.8	2500.6	2860.9	3313.8	3259.5	4278.3	4626.2	5013.6	5422.4	5829.0
65°	2142.5	2143.7	2241.9	2526.5	3237.0	3293.4	3770.1	4102.1	4547.1	5037.3	5551.2
67.5°	1599.3	1591.4	1686.2	1903.1	2541.2	3294.6	3235.8	3422.2	3731.7	4166.5	4627.3
70°	567.0	554.6	708.2	1008.6	1583.5	2694.8	2780.7	2793.1	2878.9	3113.8	3403.0
72.5°	184.1	187.5	225.9	369.3	729.6	1813.9	2517.5	2479.1	2456.5	2455.4	2493.8
75°	73.4	74.5	90.4	163.8	327.5	874.2	2204.7	2226.1	2234.0	2245.3	2257.7
77.5°	35.0	38.4	50.8	91.5	162.6	432.6	1577.8	1759.7	1863.6	1943.8	1992.3
80°	12.4	14.7	28.2	56.5	75.7	198.8	831.3	1002.9	1155.4	1351.9	1521.3
82.5°	0.0	0.0	5.6	39.5	41.8	80.2	341.1	399.8	457.4	593.0	761.2
85°	0.0	0.0	0.0	11.3	12.4	13.6	115.2	138.9	155.9	181.8	210.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4	6.8	16.9	26.0
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3
2.5°	277.8	276.7	276.7	274.5	273.3	271.1	269.9	266.5	265.4	265.4	265.4
5°	328.7	324.1	321.9	316.2	312.9	311.7	306.1	303.8	300.4	301.6	295.9
7.5°	385.1	377.2	373.8	365.9	363.7	355.8	353.5	347.9	344.5	337.7	335.4
10°	447.3	437.1	431.4	419.0	415.6	410.0	403.2	396.4	390.8	384.0	380.6
12.5°	518.4	509.4	504.9	487.9	480.0	472.1	463.1	454.0	445.0	439.3	431.4
15°	602.0	587.3	582.8	567.0	553.4	543.3	530.8	519.5	512.8	501.5	493.6
17.5°	684.4	669.8	666.4	642.6	628.0	621.2	607.6	593.0	580.5	569.2	556.8
20°	766.9	756.7	747.7	725.1	709.3	698.0	679.9	665.2	655.1	639.3	623.4
22.5°	849.3	839.2	832.4	808.7	794.0	778.2	762.4	746.6	731.9	712.7	694.6
25°	934.0	927.3	923.9	902.4	888.9	874.2	858.4	840.3	822.2	800.8	781.6
27.5°	1022.1	1024.4	1017.6	1013.1	998.4	988.3	963.4	951.0	937.4	911.5	887.7
30°	1134.0	1140.7	1138.5	1141.9	1132.8	1126.0	1106.8	1091.0	1075.2	1050.4	1023.3
32.5°	1275.1	1284.2	1288.7	1301.1	1296.6	1294.3	1288.7	1266.1	1254.8	1211.9	1200.6
35°	1493.1	1488.6	1507.8	1518.0	1513.4	1511.2	1504.4	1492.0	1478.4	1447.9	1419.7
37.5°	1776.6	1781.1	1787.9	1767.6	1754.0	1752.9	1732.6	1720.1	1700.9	1667.0	1633.2
40°	2296.1	2267.9	2236.3	2150.4	2113.2	2091.7	2031.9	2014.9	1982.2	1935.9	1900.8
42.5°	2971.5	2943.3	2848.4	2705.0	2628.2	2522.0	2473.5	2413.6	2367.3	2291.6	2251.0
45°	3642.4	3561.1	3549.8	3382.7	3287.8	3147.7	3060.8	2960.2	2855.2	2755.8	2683.5
47.5°	4208.3	4190.2	4134.9	4033.2	3945.1	3827.7	3715.8	3561.1	3452.7	3311.5	3181.6
50°	4661.2	4660.0	4639.7	4581.0	4507.6	4412.7	4314.4	4183.4	4060.3	3887.5	3748.6
52.5°	5000.0	5018.1	5024.9	5006.8	4978.5	4895.0	4845.3	4735.7	4631.8	4485.0	4334.8
55°	5248.5	5315.1	5349.0	5387.4	5379.5	5350.1	5347.9	5276.7	5229.3	5112.9	5006.8
57.5°	5555.7	5665.2	5770.3	5956.6	5963.4	6028.9	6062.8	6096.7	6105.7	6059.4	6024.4
60°	5946.5	6170.1	6368.9	6758.5	6860.2	7020.6	7124.5	7237.4	7333.4	7341.3	7339.1
62.5°	6222.1	6566.5	6887.3	7465.6	7663.2	7848.4	7987.4	8096.9	8163.6	8231.3	8262.9
63°	6230.0	6607.2	6948.3	7544.6	7752.4	7928.6	8060.8	8162.4	8232.4	8273.1	8293.4
65°	6039.1	6496.5	6903.1	7497.2	7692.6	7869.9	7938.8	8005.4	8039.3	8055.1	7995.3
67.5°	5118.6	5565.9	6040.2	6704.3	6871.5	7083.8	7140.3	7174.2	7190.0	7186.6	7135.8
70°	3827.7	4202.6	4730.1	5489.1	5710.4	5918.2	6047.0	6102.3	6120.4	6114.8	6039.1
72.5°	2672.2	2892.5	3327.3	4172.1	4473.7	4740.2	4899.5	4981.9	4998.9	4965.0	4895.0
75°	2244.2	2255.5	2353.7	2815.7	3098.0	3382.7	3562.2	3614.2	3580.3	3477.5	3299.1
77.5°	2003.6	2028.5	2028.5	2097.4	2152.7	2231.8	2248.7	2122.2	1975.4	1785.6	1632.0
80°	1680.6	1767.6	1828.6	1879.4	1885.0	1869.2	1827.4	1756.3	1643.3	1498.8	1338.4
82.5°	1021.0	1192.7	1262.7	1524.7	1653.5	1740.5	1733.7	1638.8	1553.0	1402.8	1266.1
85°	257.5	277.8	301.6	391.9	439.3	536.5	597.5	625.7	635.9	583.9	528.6
87.5°	24.8	16.9	28.2	21.5	30.5	22.6	30.5	28.2	35.0	37.3	40.7
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3
2.5°	263.2	262.0	260.9	259.8	258.6	257.5	255.3	255.3	253.0	251.9	250.7
5°	292.5	290.3	289.1	286.9	283.5	281.2	277.8	273.3	269.9	268.8	266.5
7.5°	329.8	324.1	321.9	318.5	314.0	307.2	302.7	299.3	293.7	290.3	283.5
10°	371.6	365.9	359.2	352.4	345.6	337.7	332.1	327.5	318.5	314.0	306.1
12.5°	424.7	414.5	406.6	397.6	388.5	379.5	372.7	359.2	351.3	341.1	334.3
15°	478.9	469.8	460.8	449.5	436.0	421.3	414.5	402.1	391.9	376.1	367.1
17.5°	544.4	527.4	513.9	500.3	487.9	474.4	460.8	441.6	426.9	413.4	395.3
20°	608.8	588.4	573.8	555.7	537.6	516.2	500.3	486.8	466.5	448.4	429.2
22.5°	677.7	657.3	633.6	615.5	590.7	573.8	552.3	529.7	509.4	485.7	461.9
25°	761.2	739.8	712.7	689.0	660.7	637.0	611.0	585.0	560.2	533.1	502.6
27.5°	864.0	841.4	812.1	783.8	746.6	717.2	692.3	657.3	625.7	591.8	556.8
30°	993.9	969.1	932.9	892.3	855.0	822.2	787.2	740.9	705.9	665.2	620.1
32.5°	1163.3	1134.0	1085.4	1047.0	1000.7	957.8	909.2	862.9	813.2	760.1	708.2
35°	1376.8	1349.7	1293.2	1236.7	1185.9	1135.1	1074.1	1021.0	951.0	886.6	820.0
37.5°	1598.1	1549.6	1497.6	1436.6	1373.4	1312.4	1237.9	1164.4	1084.3	1014.2	930.7
40°	1851.1	1792.4	1749.5	1684.0	1594.8	1507.8	1438.9	1347.4	1246.9	1153.2	1054.9
42.5°	2197.9	2132.4	2055.6	1956.2	1891.8	1790.2	1700.9	1592.5	1460.4	1355.3	1236.7
45°	2598.8	2509.6	2435.1	2339.1	2261.1	2134.6	2030.7	1886.2	1754.0	1616.2	1471.7
47.5°	3056.2	2945.6	2837.1	2742.3	2618.0	2493.8	2361.6	2208.0	2038.6	1887.3	1715.6
50°	3581.4	3424.4	3274.2	3152.3	2981.7	2838.3	2694.8	2522.0	2334.5	2160.6	1965.2
52.5°	4165.4	3983.5	3784.7	3597.2	3399.6	3215.5	3042.7	2843.9	2635.0	2422.6	2204.7
55°	4870.1	4733.5	4499.7	4261.4	3997.1	3750.9	3528.4	3282.1	3028.0	2749.0	2519.8
57.5°	5973.6	5906.9	5711.5	5473.2	5128.8	4829.5	4452.2	4150.7	3782.5	3398.5	3102.6
60°	7468.9	7386.5	7276.9	7083.8	6810.5	6403.9	5988.3	5519.5	4959.3	4427.4	3922.5
62.5°	8266.3	8237.0	8147.7	8014.5	7759.2	7438.5	7019.4	6504.4	5871.9	5225.9	4582.1
63°	8290.0	8252.8	8176.0	8040.4	7815.7	7505.1	7094.0	6593.6	5974.7	5316.2	4658.9
65°	7969.3	7954.6	7876.7	7728.7	7575.1	7337.9	7019.4	6589.1	6069.6	5447.3	4793.3
67.5°	7068.0	7024.0	6904.2	6859.1	6751.8	6586.9	6344.0	6048.1	5676.5	5187.5	4622.8
70°	5978.1	5912.6	5762.4	5682.2	5551.2	5447.3	5299.3	5088.1	4858.8	4517.7	4096.5
72.5°	4822.7	4687.2	4549.4	4340.4	4157.4	3972.2	3808.5	3659.4	3407.5	3269.7	2950.1
75°	3131.9	2885.7	2649.7	2333.4	2048.8	1796.9	1551.8	1427.6	1169.0	1063.9	913.7
77.5°	1486.3	1348.5	1163.3	1019.9	836.9	683.3	557.9	419.0	328.7	257.5	196.5
80°	1199.5	1083.1	971.3	841.4	703.6	561.3	430.3	321.9	228.1	158.1	111.8
82.5°	1069.6	943.1	805.3	716.1	622.3	509.4	417.9	341.1	251.9	184.1	125.4
85°	415.6	350.1	269.9	220.2	171.7	141.2	127.6	88.1	68.9	54.2	41.8
87.5°	36.1	29.4	23.7	15.8	16.9	9.0	10.2	6.8	5.6	5.6	4.5
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3	238.3
2.5°	249.6	248.5	247.3	245.1	245.1	242.8	241.7	240.6	234.9	222.5	212.3
5°	262.0	259.8	257.5	254.1	251.9	248.5	246.2	242.8	230.4	206.7	186.4
7.5°	280.1	275.6	272.2	265.4	262.0	257.5	254.1	248.5	228.1	192.0	163.8
10°	301.6	293.7	288.0	280.1	273.3	267.7	262.0	254.1	225.9	176.2	143.4
12.5°	327.5	318.5	307.2	298.2	289.1	281.2	273.3	263.2	222.5	162.6	127.6
15°	353.5	340.0	332.1	319.6	307.2	295.9	284.6	275.6	223.6	148.0	114.1
17.5°	382.9	369.3	352.4	338.8	325.3	310.6	297.0	279.0	218.0	136.7	103.9
20°	411.1	391.9	376.1	359.2	340.0	321.9	304.9	289.1	213.5	125.4	94.9
22.5°	441.6	419.0	398.7	377.2	353.5	333.2	312.9	292.5	205.6	115.2	87.0
25°	478.9	452.9	423.5	397.6	372.7	347.9	321.9	297.0	197.7	106.2	81.3
27.5°	524.1	490.2	460.8	428.1	393.0	361.4	333.2	306.1	189.7	99.4	75.7
30°	581.7	542.1	500.3	458.6	421.3	385.1	345.6	311.7	181.8	92.6	70.0
32.5°	658.5	608.8	557.9	509.4	459.7	413.4	371.6	327.5	177.3	87.0	64.4
35°	760.1	695.7	633.6	572.6	512.8	456.3	402.1	352.4	177.3	80.2	57.6
37.5°	856.1	781.6	702.5	626.8	555.7	490.2	425.8	365.9	168.3	74.5	52.0
40°	960.0	870.8	778.2	689.0	603.1	521.8	448.4	379.5	160.4	67.8	46.3
42.5°	1119.3	1006.3	885.5	781.6	678.8	578.3	486.8	405.5	150.2	61.0	40.7
45°	1328.2	1184.8	1042.5	916.0	785.0	661.8	553.4	452.9	148.0	55.3	35.0
47.5°	1551.8	1382.4	1215.3	1053.8	900.2	756.7	626.8	506.0	148.0	49.7	30.5
50°	1774.3	1562.0	1383.6	1196.1	1023.3	853.9	699.1	561.3	149.1	45.2	24.8
52.5°	1975.4	1748.4	1548.5	1331.6	1140.7	944.2	775.9	615.5	146.8	39.5	20.3
55°	2254.4	1987.8	1756.3	1516.8	1293.2	1071.8	881.0	696.9	148.0	35.0	16.9
57.5°	2768.2	2455.4	2176.4	1862.4	1604.9	1319.2	1087.6	864.0	161.5	29.4	12.4
60°	3505.8	3099.2	2707.3	2324.4	1996.8	1656.9	1356.5	1093.3	189.7	23.7	9.0
62.5°	4001.6	3469.6	3002.0	2579.6	2199.0	1843.2	1515.7	1216.4	208.9	19.2	5.6
63°	4052.4	3502.4	3032.5	2596.6	2208.0	1852.3	1522.5	1225.4	210.1	18.1	5.6
65°	4148.4	3558.8	3049.5	2600.0	2199.0	1839.8	1518.0	1224.3	212.3	14.7	4.5
67.5°	4038.9	3471.9	2951.2	2502.8	2119.9	1766.4	1461.5	1179.1	211.2	10.2	3.4
70°	3611.9	3142.1	2684.7	2266.8	1918.9	1599.3	1330.5	1075.2	194.3	6.8	2.3
72.5°	2651.9	2332.3	1977.6	1676.1	1445.7	1200.6	1024.4	807.5	150.2	4.5	1.1
75°	786.1	716.1	602.0	530.8	468.7	387.4	344.5	268.8	76.8	2.3	0.0
77.5°	157.0	142.3	127.6	116.3	109.6	93.7	89.2	73.4	31.6	1.1	0.0
80°	82.4	67.8	57.6	50.8	44.0	36.1	30.5	24.8	5.6	0.0	0.0
82.5°	79.1	53.1	38.4	31.6	27.1	21.5	16.9	12.4	3.4	0.0	0.0
85°	29.4	22.6	16.9	13.6	11.3	10.2	7.9	6.8	0.0	0.0	0.0
87.5°	4.5	3.4	3.4	2.3	2.3	1.1	1.1	1.1	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



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CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	238.3	238.3	238.3	238.3	238.3	238.3	238.3
2.5°	202.2	193.1	188.6	183.0	183.0	181.8	184.1
5°	168.3	155.9	146.8	140.0	141.2	137.8	138.9
7.5°	142.3	129.9	122.0	117.5	116.3	115.2	115.2
10°	123.1	111.8	105.0	101.6	100.5	100.5	100.5
12.5°	109.6	98.3	92.6	90.4	90.4	89.2	89.2
15°	98.3	89.2	83.6	81.3	81.3	80.2	81.3
17.5°	89.2	80.2	75.7	73.4	73.4	72.3	72.3
20°	81.3	73.4	68.9	65.5	65.5	64.4	65.5
22.5°	74.5	66.6	61.0	58.7	57.6	56.5	57.6
25°	67.8	59.9	54.2	50.8	49.7	49.7	48.6
27.5°	62.1	54.2	47.4	44.0	42.9	42.9	41.8
30°	56.5	47.4	40.7	37.3	36.1	36.1	36.1
32.5°	50.8	40.7	35.0	31.6	30.5	30.5	30.5
35°	45.2	35.0	29.4	26.0	24.8	24.8	24.8
37.5°	38.4	29.4	22.6	20.3	19.2	18.1	18.1
40°	32.8	22.6	16.9	14.7	12.4	12.4	12.4
42.5°	27.1	18.1	12.4	9.0	7.9	6.8	7.9
45°	22.6	13.6	7.9	4.5	3.4	3.4	3.4
47.5°	18.1	9.0	3.4	1.1	1.1	1.1	1.1
50°	13.6	5.6	1.1	0.0	0.0	1.1	1.1
52.5°	10.2	3.4	0.0	0.0	0.0	0.0	0.0
55°	5.6	1.1	0.0	0.0	0.0	0.0	0.0
57.5°	3.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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

(END OF REPORT)