

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: McGRAW-EDISON

Report Number: P157695

Luminaire Tested: **VTS-F06-LED-E1-5XQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157695
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F06-LED-E1-5XQ
Description: VENTUS LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

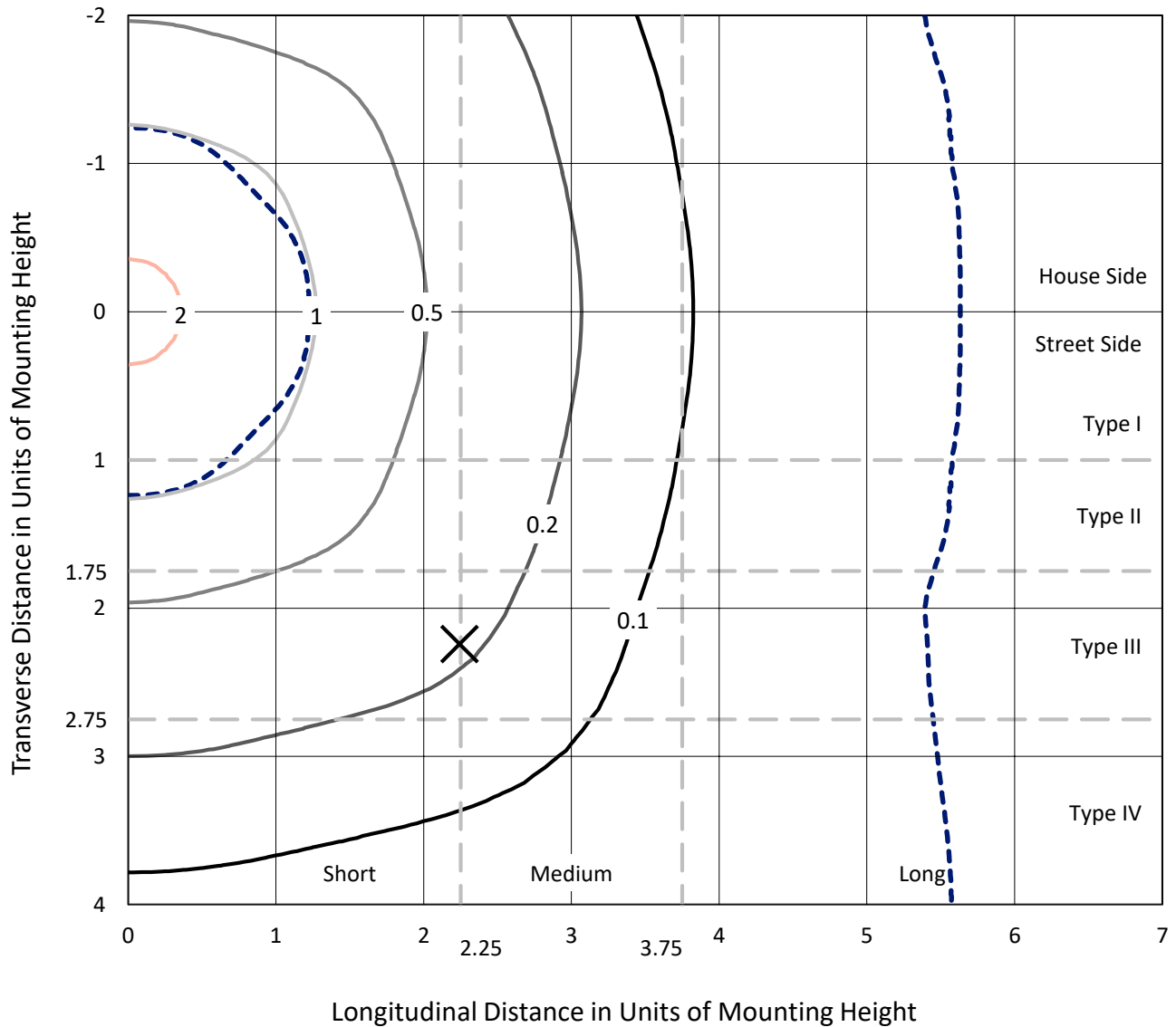
Lumens per Lamp: N/A
Luminaire Lumens: 15664.8 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U1 - G3

Input Watts (W): 156.5
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

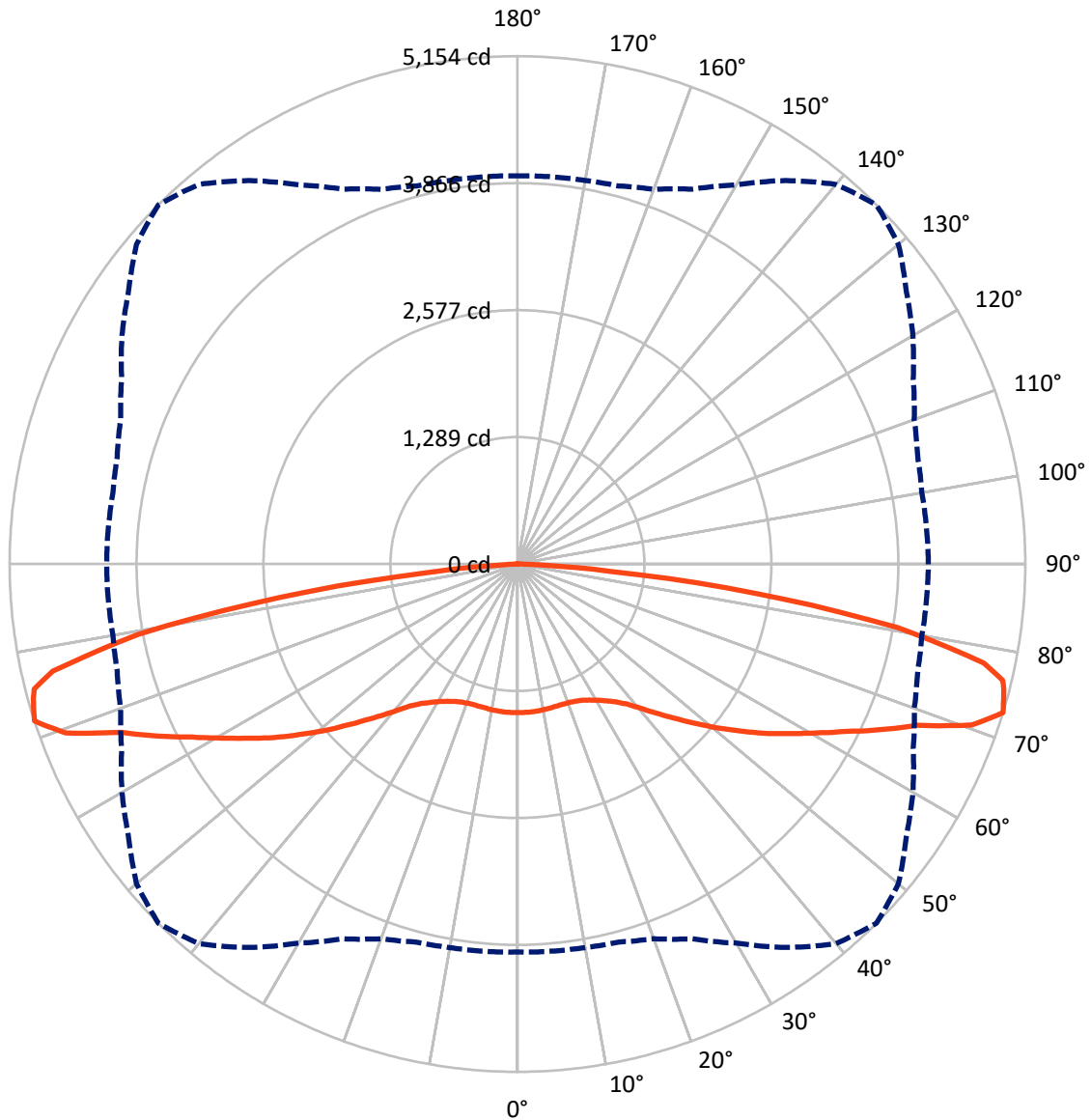
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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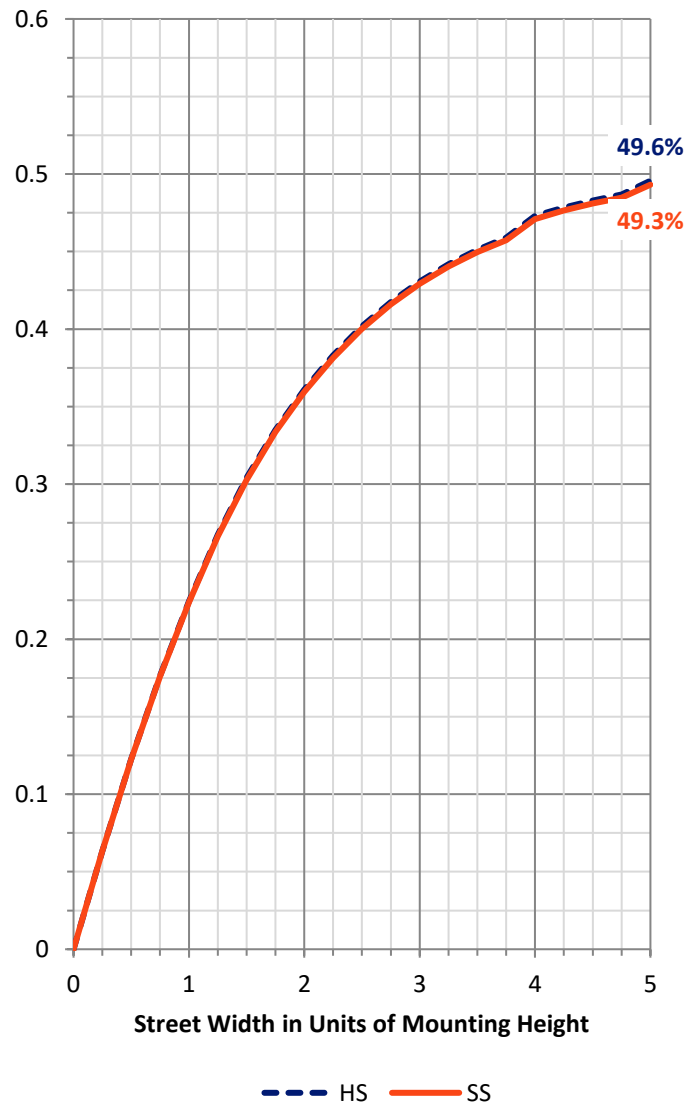
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7828.6	3.9	7832.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7828.6	3.9	7832.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	15657.1	7.7	15664.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.9	0.9
10°-20°	424.9	2.7
20°-30°	710.5	4.5
30°-40°	1079.9	6.9
40°-50°	1710.3	10.9
50°-60°	2616.2	16.7
60°-70°	3744.3	23.9
70°-80°	4284.3	27.3
80°-90°	942.9	6.0
90°-100°	0.8	0.0
100°-110°	1.6	0.0
110°-120°	1.1	0.0
120°-130°	1.2	0.0
130°-140°	1.2	0.0
140°-150°	0.9	0.0
150°-160°	0.6	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-90°	15657.1	100.0
0°-180°	15664.8	100.0



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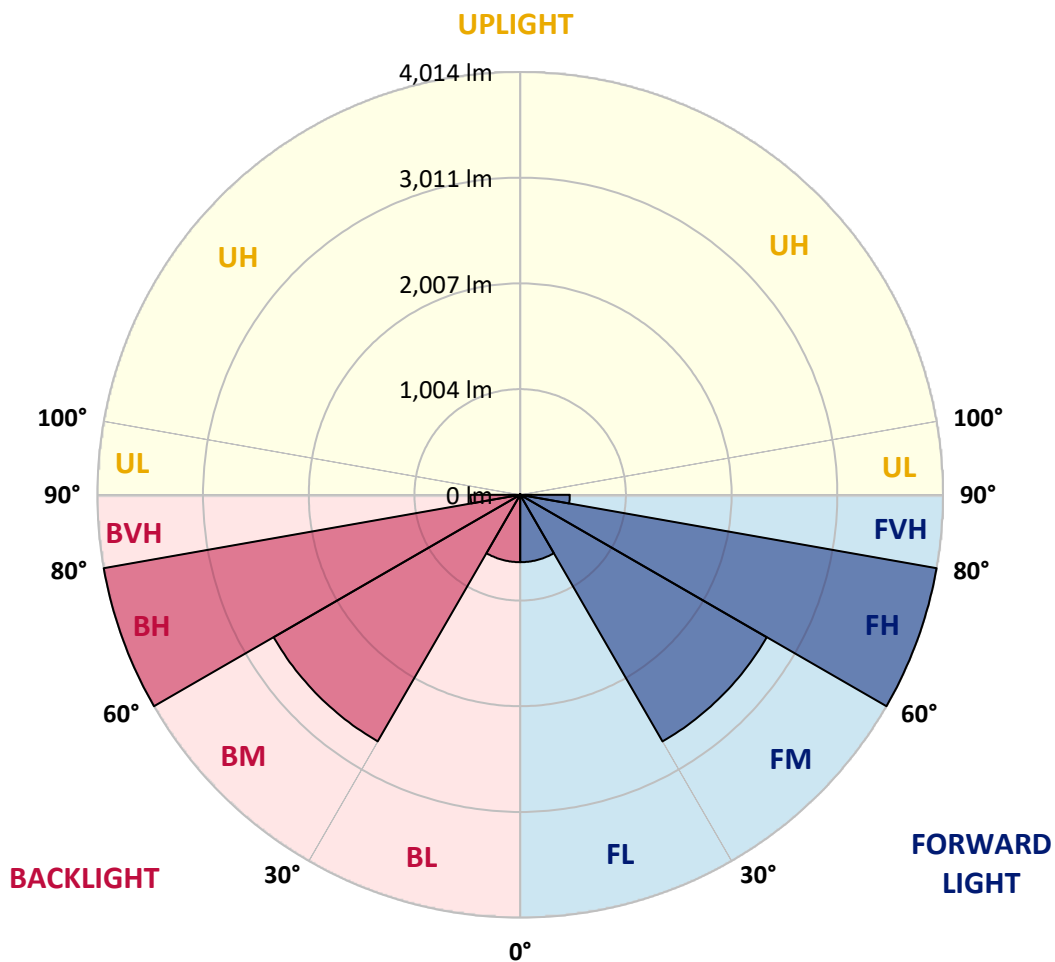
CATALOG NUMBER: VTS-F06-LED-E1-5XQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	639.6	4.1			
FM	(30°-60°)	2703.2	17.3			
FH	(60°-80°)	4014.3	25.6			G2/5000
FVH	(80°-90°)	471.5	3.0			G3/500
BL	(0°-30°)	639.6	4.1	B2/1000		
BM	(30°-60°)	2703.2	17.3	B3/5000		
BH	(60°-80°)	4014.3	25.6	B4/5000		G2/5000
BVH	(80°-90°)	471.5	3.0			G3/500
UL	(90°-100°)	0.8	0.0		U1/10	
UH	(100°-180°)	3.9	0.0		U1/10	

BUG Rating: B4-U1-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7
2.5°	1508.7	1506.7	1507.7	1509.7	1508.7	1508.7	1507.7	1507.7	1509.7	1507.7	1508.7
5°	1509.7	1507.7	1508.7	1509.7	1508.7	1509.7	1508.7	1508.7	1508.7	1507.7	1509.7
7.5°	1505.8	1505.8	1506.7	1506.7	1505.8	1506.7	1506.7	1506.7	1505.8	1505.8	1507.7
10°	1503.8	1502.8	1502.8	1503.8	1502.8	1502.8	1503.8	1503.8	1501.8	1501.8	1503.8
12.5°	1500.8	1499.8	1499.8	1499.8	1498.8	1498.8	1499.8	1499.8	1498.8	1497.8	1500.8
15°	1498.8	1497.8	1497.8	1497.8	1495.9	1496.8	1496.8	1496.8	1495.9	1494.9	1497.8
17.5°	1497.8	1496.8	1496.8	1496.8	1495.9	1495.9	1495.9	1495.9	1494.9	1494.9	1496.8
20°	1499.8	1499.8	1499.8	1499.8	1498.8	1498.8	1498.8	1499.8	1499.8	1499.8	1501.8
22.5°	1504.8	1504.8	1505.8	1506.7	1506.7	1508.7	1509.7	1510.7	1510.7	1511.7	1513.7
25°	1517.6	1517.6	1518.6	1519.6	1522.6	1524.6	1528.5	1530.5	1531.5	1531.5	1532.5
27.5°	1541.4	1542.4	1544.4	1546.4	1550.3	1553.3	1557.3	1561.2	1562.2	1563.2	1564.2
30°	1571.1	1572.1	1576.1	1578.1	1583.0	1589.0	1593.9	1597.9	1600.9	1602.8	1601.8
32.5°	1613.7	1615.7	1620.7	1623.6	1630.6	1636.5	1643.5	1649.4	1652.4	1655.3	1654.4
35°	1673.2	1678.1	1683.1	1686.1	1693.0	1697.9	1706.9	1712.8	1718.7	1716.8	1717.8
37.5°	1761.3	1765.3	1766.3	1768.3	1775.2	1779.2	1789.1	1797.0	1800.0	1802.0	1802.9
40°	1880.2	1880.2	1885.2	1881.2	1890.1	1891.1	1903.0	1913.9	1916.9	1924.8	1918.9
42.5°	2018.9	2017.9	2020.9	2017.9	2017.9	2027.8	2037.7	2057.5	2059.5	2069.4	2063.5
45°	2169.5	2169.5	2166.5	2167.5	2169.5	2180.4	2192.3	2214.1	2224.0	2229.9	2225.9
47.5°	2332.9	2329.0	2328.0	2327.0	2332.9	2344.8	2362.7	2383.5	2408.2	2410.2	2408.2
50°	2498.4	2497.4	2490.4	2496.4	2500.3	2506.3	2540.0	2567.7	2593.5	2609.3	2604.4
52.5°	2672.7	2663.8	2663.8	2663.8	2673.7	2692.5	2722.3	2759.9	2794.6	2811.4	2808.4
55°	2849.1	2846.1	2837.2	2833.2	2846.1	2872.8	2915.4	2961.0	3006.6	3032.3	3022.4
57.5°	3010.5	3005.6	3006.6	3007.6	3022.4	3058.1	3107.6	3168.0	3217.6	3245.3	3238.4
60°	3137.3	3131.4	3142.3	3145.2	3172.0	3231.4	3310.7	3387.0	3452.3	3480.1	3469.2
62.5°	3281.0	3277.0	3283.9	3282.9	3311.7	3378.0	3484.0	3605.9	3705.0	3740.6	3724.8
65°	3512.8	3500.9	3497.9	3487.0	3505.8	3557.4	3663.3	3805.0	3963.5	4054.6	4032.9
67.5°	3790.2	3787.2	3777.3	3771.3	3778.3	3842.7	3944.7	4081.4	4242.9	4368.7	4396.4
70°	3973.4	3977.4	3987.3	4002.1	4059.6	4184.4	4370.7	4577.7	4799.6	4893.7	4876.9
72.5°	3938.7	3944.7	3952.6	3971.4	4046.7	4196.3	4442.0	4751.1	5029.4	5154.2	5047.3
75°	3769.3	3774.3	3792.1	3820.9	3913.0	4094.3	4358.8	4686.7	4974.0	5098.8	4986.8
76°	3612.8	3628.7	3661.4	3695.0	3806.0	4003.1	4285.5	4635.2	4939.3	5066.1	4958.1
77.5°	3258.2	3272.1	3298.8	3357.2	3483.1	3735.7	4065.5	4409.3	4726.3	4840.2	4749.1
80°	2451.8	2463.7	2488.5	2558.8	2667.8	2824.3	3079.9	3415.7	3763.4	3913.0	3853.6
82.5°	1035.2	1049.1	1147.1	1249.2	1369.1	1538.4	1704.9	2002.1	2257.6	2428.0	2336.9
85°	113.9	140.7	173.4	235.8	289.3	385.4	479.5	659.8	834.1	940.1	831.1
87.5°	19.8	22.8	32.7	41.6	46.6	53.5	64.4	90.1	122.8	106.0	108.0
90°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
97.5°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
102.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
105°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
107.5°	1.0	1.0	1.0	1.0	2.0	2.0	1.0	1.0	1.0	2.0	1.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
112.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
115°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
117.5°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
120°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
122.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
125°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
127.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
130°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
132.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
135°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
137.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
140°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
142.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
145°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	1.0
147.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0
152.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0
155°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	1.0
157.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
160°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
162.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
165°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7
2.5°	1507.7	1507.7	1509.7	1508.7	1508.7	1509.7	1511.7	1510.7
5°	1508.7	1509.7	1507.7	1508.7	1509.7	1509.7	1510.7	1509.7
7.5°	1506.7	1506.7	1506.7	1507.7	1508.7	1507.7	1508.7	1508.7
10°	1502.8	1503.8	1502.8	1504.8	1505.8	1505.8	1506.7	1506.7
12.5°	1499.8	1499.8	1499.8	1501.8	1502.8	1502.8	1503.8	1502.8
15°	1496.8	1496.8	1495.9	1497.8	1499.8	1499.8	1500.8	1500.8
17.5°	1495.9	1495.9	1494.9	1496.8	1498.8	1498.8	1499.8	1499.8
20°	1498.8	1499.8	1497.8	1499.8	1501.8	1502.8	1502.8	1502.8
22.5°	1510.7	1509.7	1506.7	1507.7	1508.7	1508.7	1508.7	1508.7
25°	1528.5	1526.6	1523.6	1522.6	1521.6	1520.6	1520.6	1520.6
27.5°	1559.3	1556.3	1551.3	1550.3	1549.3	1547.4	1547.4	1547.4
30°	1595.9	1591.9	1586.0	1584.0	1581.0	1579.1	1578.1	1577.1
32.5°	1648.4	1640.5	1633.5	1628.6	1625.6	1619.7	1618.7	1616.7
35°	1708.8	1702.9	1693.0	1690.0	1685.1	1682.1	1681.1	1676.1
37.5°	1792.0	1785.1	1776.2	1774.2	1773.2	1770.3	1770.3	1769.3
40°	1908.0	1901.0	1893.1	1885.2	1887.1	1888.1	1888.1	1884.2
42.5°	2049.6	2038.7	2022.9	2027.8	2024.8	2020.9	2028.8	2023.9
45°	2211.1	2196.2	2184.3	2179.4	2179.4	2174.4	2182.4	2182.4
47.5°	2390.4	2366.6	2344.8	2345.8	2337.9	2339.9	2344.8	2351.8
50°	2579.6	2547.9	2527.1	2517.2	2509.3	2512.2	2521.2	2523.1
52.5°	2775.7	2737.1	2709.4	2694.5	2684.6	2688.6	2695.5	2701.4
55°	2979.8	2937.2	2895.6	2879.8	2867.9	2875.8	2876.8	2884.7
57.5°	3192.8	3134.4	3085.8	3062.0	3050.1	3058.1	3064.0	3071.9
60°	3407.8	3340.4	3282.9	3255.2	3238.4	3249.3	3263.1	3267.1
62.5°	3657.4	3564.3	3499.9	3460.3	3452.3	3463.2	3467.2	3479.1
65°	3952.6	3840.7	3751.5	3703.0	3701.0	3706.9	3715.9	3718.8
67.5°	4289.4	4164.6	4044.7	3996.2	3977.4	3995.2	4004.1	4016.0
70°	4764.9	4593.6	4420.2	4312.2	4266.6	4252.8	4256.7	4269.6
72.5°	4818.4	4634.2	4432.1	4285.5	4205.2	4168.6	4167.6	4169.6
75°	4701.5	4407.3	4264.7	4096.3	3982.3	3922.9	3915.0	3914.0
76°	4643.1	4295.4	4089.3	3955.6	3818.9	3758.4	3749.5	3744.6
77.5°	4396.4	4022.9	3712.9	3631.6	3500.9	3424.6	3440.5	3427.6
80°	3524.7	3154.2	2861.9	2633.1	2640.0	2584.6	2561.8	2554.8
82.5°	2077.4	1773.2	1450.3	1261.1	1080.8	1033.2	889.6	856.9
85°	663.7	470.5	285.3	207.0	140.7	117.9	92.1	84.2
87.5°	88.2	69.3	56.5	54.5	49.5	42.6	27.7	19.8
90°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
97.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100°	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
102.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0
105°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
107.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
112.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
115°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
117.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
120°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
122.5°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
125°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
127.5°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
130°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
132.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
135°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
137.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
140°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
142.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
145°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
147.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
150°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
152.5°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
155°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
157.5°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
160°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
162.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
165°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	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

(END OF REPORT)