

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: P158895

Luminaire Tested: **VST-F05-LED-E-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158895
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F05-LED-E-U-SLL
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11092.1 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 133.3
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

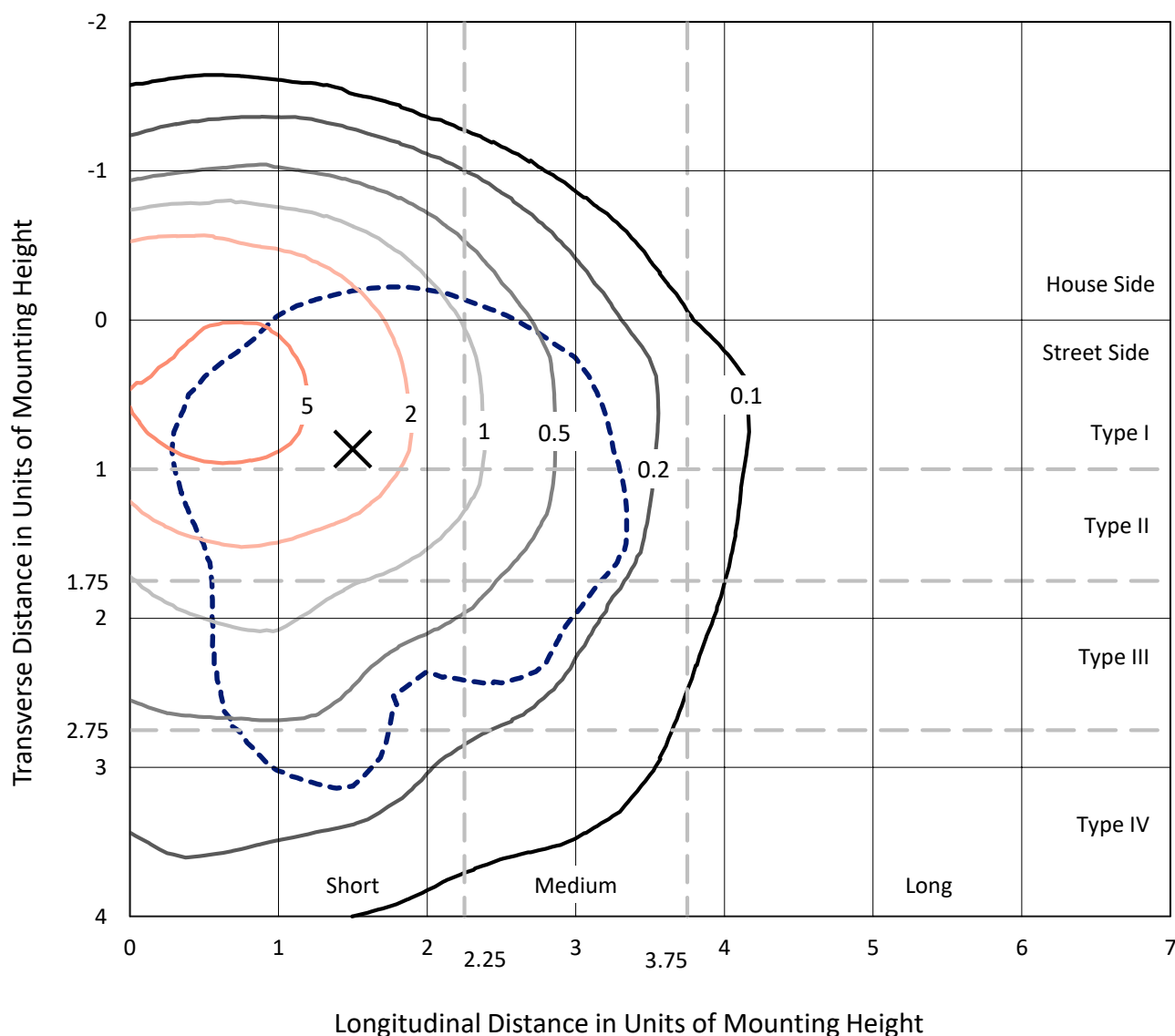


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

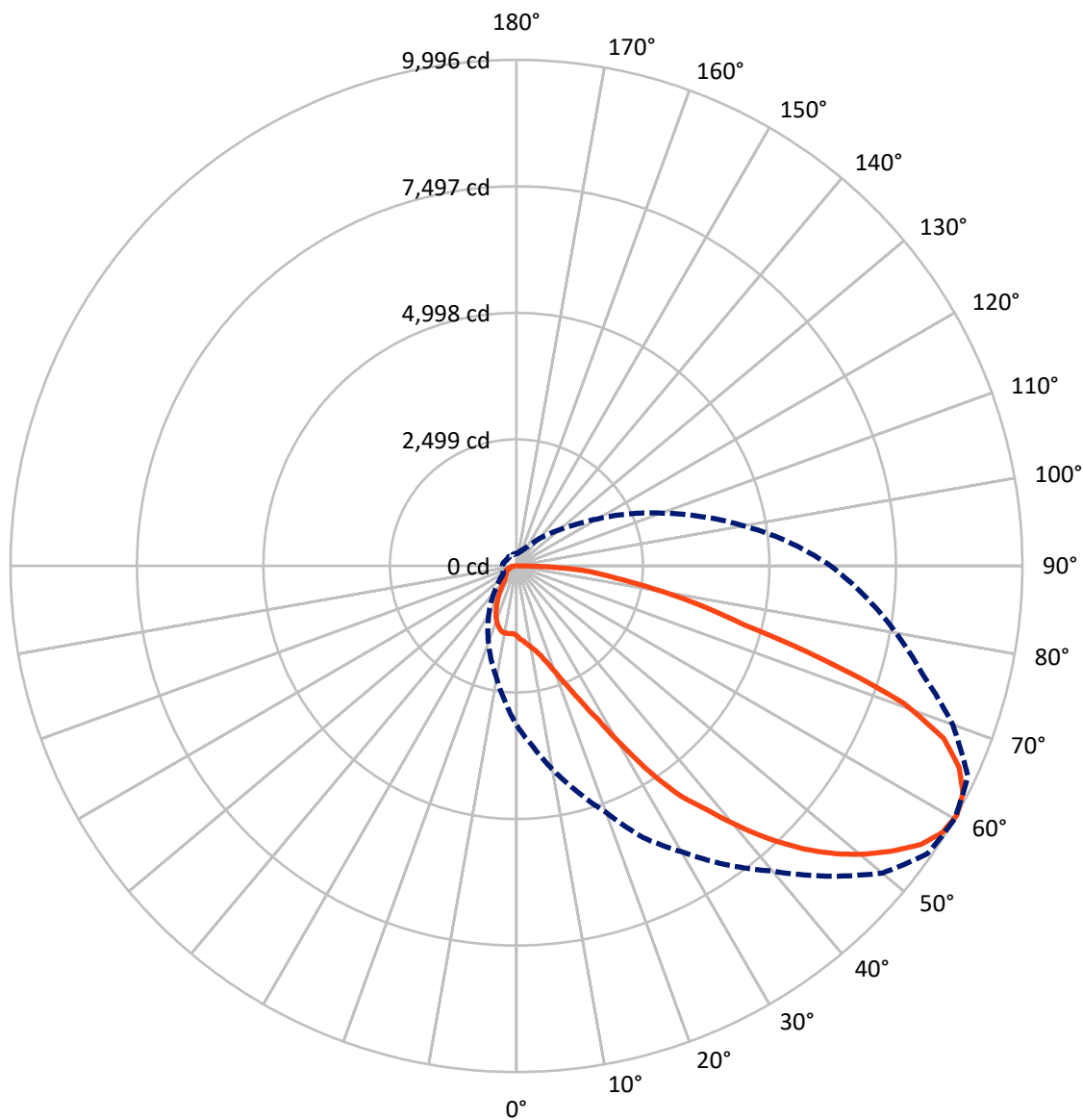


Based on 20 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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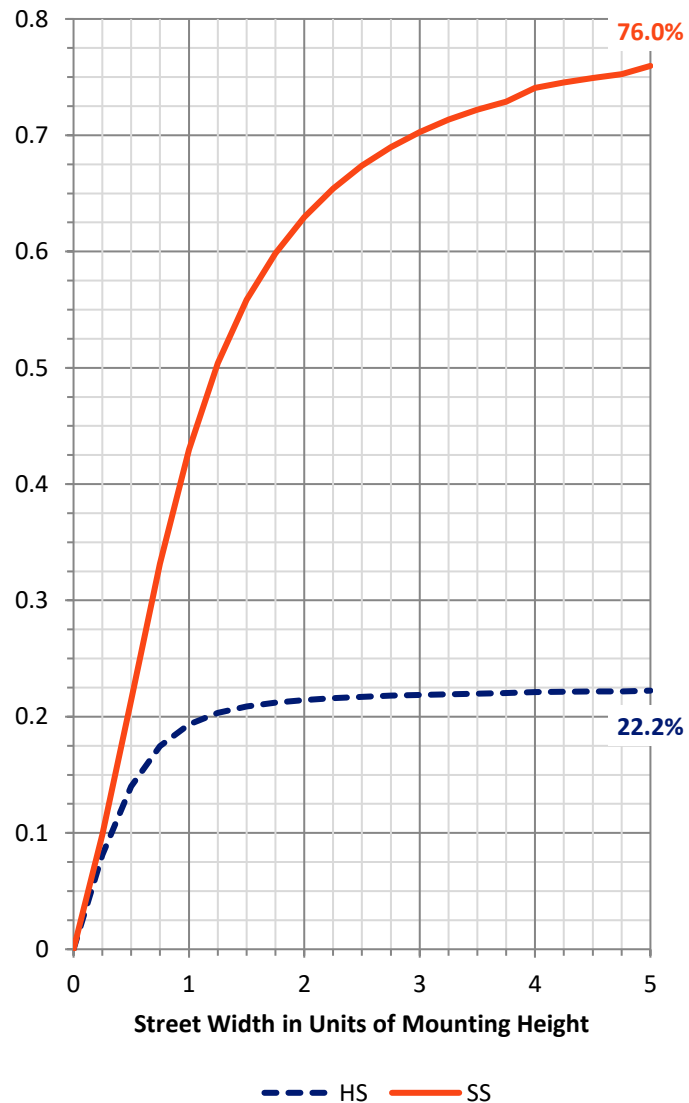
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2497.6	0.0	2497.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	8594.5	0.0	8594.5
	% Fixture	77.5	0.0	77.5
Total	Lumens	11092.1	0.0	11092.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	1.2
10°-20°	439.4	4.0
20°-30°	833.8	7.5
30°-40°	1313.1	11.8
40°-50°	1832.8	16.5
50°-60°	2266.8	20.4
60°-70°	2349.6	21.2
70°-80°	1478.5	13.3
80°-90°	442.0	4.0
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°	11092.1	100.0
0°-180°	11092.1	100.0

Coefficient of Utilization



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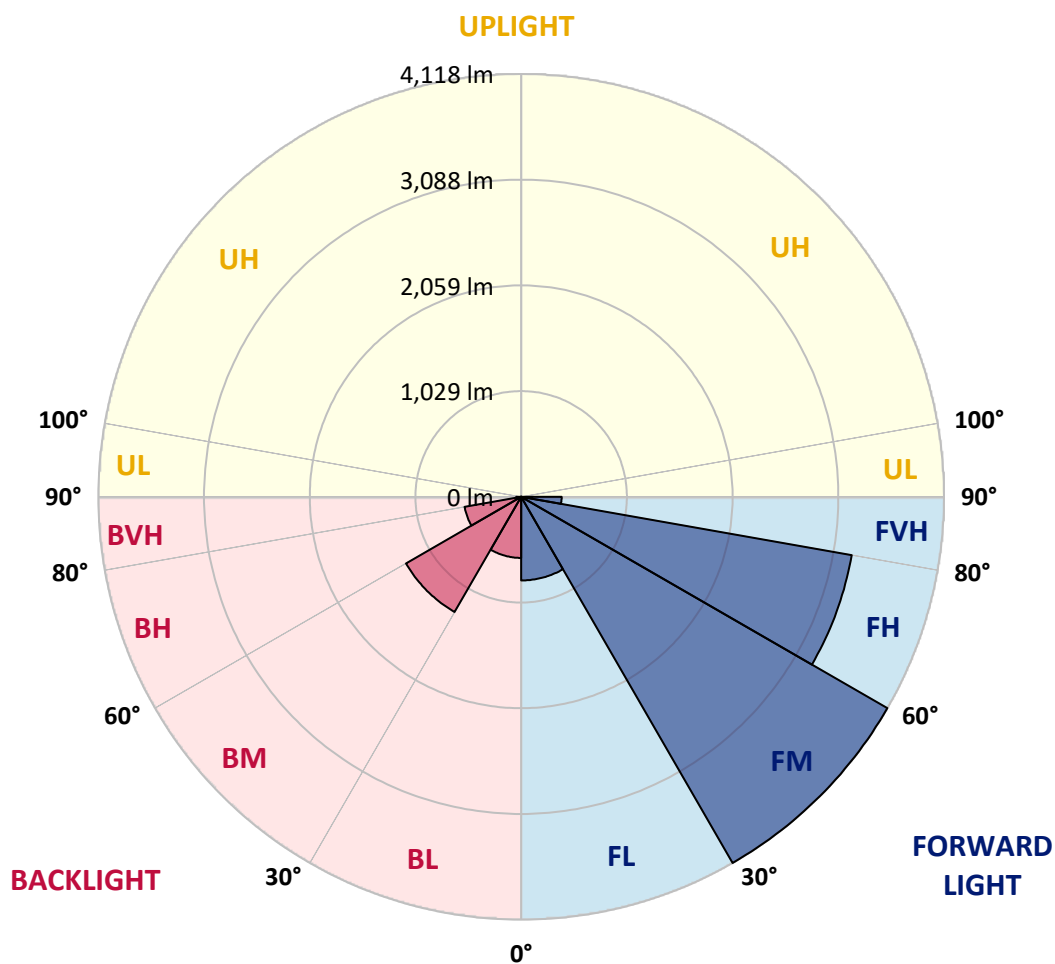
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	814.3	7.3			
FM	(30°-60°)	4117.6	37.1			
FH	(60°-80°)	3268.7	29.5			G2/5000
FVH	(80°-90°)	393.9	3.6			G3/500
BL	(0°-30°)	595.0	5.4	B2/1000		
BM	(30°-60°)	1295.2	11.7	B2/2500		
BH	(60°-80°)	559.3	5.0	B2/1000		G2/1000
BVH	(80°-90°)	48.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
2.5°	1461.2	1459.5	1459.5	1459.5	1458.7	1457.1	1459.5	1458.7	1454.6	1452.1	1454.6
5°	1480.2	1481.0	1483.5	1484.3	1484.3	1486.8	1493.4	1494.2	1493.4	1495.0	1499.2
7.5°	1498.3	1502.5	1504.9	1509.1	1514.0	1518.1	1529.7	1541.3	1548.7	1554.5	1556.1
10°	1528.0	1534.7	1542.1	1552.8	1564.4	1585.0	1594.9	1606.5	1613.9	1625.5	1627.9
12.5°	1604.0	1612.3	1617.2	1633.7	1648.6	1668.4	1682.4	1685.7	1703.1	1713.0	1724.5
15°	1732.0	1744.3	1761.7	1771.6	1788.1	1805.4	1817.8	1834.3	1836.8	1850.0	1859.1
17.5°	1888.8	1906.1	1941.6	1965.6	1987.0	2004.4	2029.1	2048.1	2052.3	2067.1	2048.1
20°	2108.4	2150.5	2156.3	2204.2	2223.1	2257.8	2307.3	2316.4	2340.4	2316.4	2302.4
22.5°	2405.6	2471.6	2489.8	2536.0	2559.1	2612.0	2626.8	2675.5	2692.0	2673.9	2635.9
25°	2747.3	2849.7	2902.5	2973.5	2985.1	3093.2	3104.8	3161.8	3131.2	3087.5	3088.3
27.5°	2999.1	3173.3	3309.5	3430.9	3515.9	3638.1	3733.0	3759.4	3730.5	3673.6	3653.8
30°	3142.8	3340.1	3535.7	3703.3	3901.4	4088.0	4282.0	4378.6	4395.1	4424.8	4305.1
32.5°	3235.2	3488.7	3721.5	3928.7	4131.8	4372.0	4632.0	4880.5	5089.4	5247.0	5172.7
35°	3312.8	3625.7	3923.7	4174.7	4414.9	4676.6	4939.1	5232.2	5578.1	5780.3	5822.4
37.5°	3344.2	3726.4	4091.3	4413.3	4750.9	5045.6	5306.5	5567.3	5930.6	6291.3	6402.8
40°	3338.4	3776.0	4191.2	4595.7	5009.3	5377.5	5682.9	5991.7	6416.8	6838.6	7020.3
42.5°	3299.6	3783.4	4254.8	4717.0	5188.4	5678.0	6068.4	6424.2	6832.0	7372.8	7629.5
45°	3250.9	3757.8	4268.0	4779.0	5321.3	5887.6	6381.3	6821.3	7299.3	7833.4	8143.8
47.5°	3184.9	3717.3	4251.5	4800.4	5380.8	6022.2	6602.5	7131.7	7657.6	8272.6	8666.4
50°	3113.1	3659.6	4217.6	4784.7	5395.6	6095.7	6728.9	7331.5	7945.7	8609.4	9107.2
52.5°	3062.7	3597.6	4187.1	4752.5	5380.8	6118.0	6775.1	7438.8	8122.3	8808.4	9402.7
55°	3000.8	3515.1	4105.3	4677.4	5326.3	6105.6	6770.1	7476.0	8171.0	8885.1	9563.7
57.5°	3004.9	3477.1	4036.0	4587.4	5214.8	5990.8	6676.8	7438.8	8094.3	8835.6	9569.5
60°	3135.3	3558.8	4072.3	4605.6	5181.8	5918.2	6518.3	7199.4	7868.9	8664.7	9435.7
62.5°	3404.5	3792.5	4258.9	4787.2	5367.6	6063.5	6446.5	6801.5	7395.9	8350.2	9207.9
65°	3725.6	4075.6	4480.1	4982.9	5633.4	6299.6	6406.1	6477.9	6778.4	7738.5	8780.3
67.5°	4046.7	4359.6	4677.4	5094.3	5784.5	6367.3	6241.0	6070.1	6231.9	7027.7	7939.9
70°	4162.3	4577.5	4786.4	5072.9	5669.7	6209.6	5974.3	5544.2	5600.4	6323.5	6990.5
72.5°	3988.9	4580.8	4650.2	4756.7	5158.7	5666.4	5417.9	4864.8	4853.3	5405.5	5944.6
75°	3345.9	4178.8	4178.0	4138.4	4229.2	4518.1	4389.3	4055.8	4197.0	4632.0	4809.5
77.5°	2384.9	3260.8	3302.1	3035.5	3028.9	3159.3	3236.9	3624.9	4136.7	4381.1	4324.9
80°	1498.3	2200.0	2377.5	2048.1	1978.0	2162.9	2642.5	3207.2	3837.0	4056.6	3867.6
82.5°	902.3	1417.4	1795.5	1608.9	1592.4	1929.3	2459.2	2678.8	2867.9	3101.5	2785.3
85°	612.5	944.4	1228.4	1265.5	1410.0	1758.4	1988.7	1891.3	1896.2	1835.1	1671.7
87.5°	117.2	257.6	421.0	513.5	569.6	765.3	832.1	753.7	795.8	582.0	636.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
2.5°	1450.4	1450.4	1450.4	1446.3	1447.1	1441.4	1438.9	1438.9	1436.4	1436.4	1435.6
5°	1495.9	1490.9	1493.4	1492.5	1492.5	1484.3	1480.2	1480.2	1469.4	1470.3	1467.0
7.5°	1563.5	1562.7	1565.2	1560.2	1553.6	1547.0	1540.4	1537.1	1522.3	1513.2	1507.4
10°	1640.3	1639.5	1642.0	1641.1	1629.6	1617.2	1599.0	1585.8	1567.7	1553.6	1539.6
12.5°	1724.5	1723.7	1722.0	1714.6	1702.2	1682.4	1659.3	1637.0	1609.8	1591.6	1571.0
15°	1855.8	1853.3	1843.4	1832.7	1819.5	1788.9	1748.5	1716.3	1679.9	1648.6	1614.7
17.5°	2049.8	2029.1	2027.5	2003.5	1968.1	1927.6	1889.6	1836.0	1784.0	1736.9	1690.7
20°	2317.2	2269.4	2256.2	2228.9	2181.9	2139.8	2057.2	1985.4	1914.4	1850.0	1791.4
22.5°	2608.7	2574.0	2541.8	2497.2	2432.8	2371.7	2266.9	2176.9	2086.1	2003.5	1938.3
25°	3015.6	2955.4	2897.6	2826.6	2737.4	2664.8	2545.1	2454.3	2335.4	2260.3	2166.2
27.5°	3541.5	3438.3	3340.9	3279.8	3123.0	3017.3	2864.6	2747.3	2603.7	2502.2	2390.7
30°	4225.9	4106.2	3961.7	3750.4	3563.8	3354.1	3165.1	3014.8	2862.1	2720.1	2591.3
32.5°	5074.5	4863.2	4634.5	4299.3	3993.1	3694.2	3442.4	3257.5	3101.5	2924.8	2743.2
35°	5791.9	5573.9	5249.5	4823.5	4445.5	4103.7	3802.4	3549.8	3345.9	3122.1	2881.9
37.5°	6358.2	6109.7	5805.1	5352.7	4953.1	4564.3	4248.2	3926.2	3658.7	3350.8	3047.0
40°	7007.1	6757.7	6422.6	5953.7	5480.7	5058.8	4688.2	4355.5	4026.9	3651.3	3260.8
42.5°	7572.5	7392.6	7053.3	6568.7	6044.5	5574.8	5169.4	4788.9	4359.6	3939.4	3477.1
45°	8162.0	7978.7	7656.7	7149.9	6592.6	6069.3	5584.7	5175.2	4668.3	4168.1	3638.9
47.5°	8682.9	8494.7	8169.4	7665.8	7073.9	6522.5	5989.2	5493.9	4905.3	4330.7	3744.6
50°	9179.8	8949.5	8651.5	8149.6	7517.2	6927.8	6349.1	5713.5	5089.4	4444.6	3816.4
52.5°	9636.4	9343.3	9061.0	8544.2	7860.6	7244.8	6599.2	5900.0	5202.5	4534.6	3865.1
55°	9895.6	9706.5	9368.9	8861.2	8105.0	7462.7	6757.7	6031.3	5314.7	4598.2	3885.7
57.5°	9975.6	9929.4	9646.3	9044.5	8248.6	7582.4	6865.1	6135.3	5389.9	4616.3	3856.9
60°	9912.1	9996.3	9841.1	9173.2	8313.9	7617.9	6917.9	6209.6	5403.1	4558.5	3769.3
62.5°	9708.2	9899.7	9879.9	9216.2	8280.0	7573.4	6912.1	6171.6	5279.2	4378.6	3572.9
65°	9373.0	9614.1	9699.1	9056.8	8089.3	7410.7	6765.2	5933.0	4935.0	4026.9	3243.5
67.5°	8742.3	9107.2	9189.7	8535.1	7590.7	6960.8	6341.7	5437.7	4297.7	3482.9	2729.2
70°	7478.4	8116.6	8228.0	7541.2	6711.5	6158.4	5633.4	4652.7	3578.7	2793.6	2094.4
72.5°	5970.2	6371.4	6599.2	6126.2	5508.7	5107.5	4709.6	3569.6	2700.3	2061.3	1441.4
75°	4667.5	4643.6	4847.5	4533.0	4169.7	3982.3	3683.5	2490.6	1808.7	1365.4	912.2
77.5°	3990.6	3683.5	3451.5	3230.3	3014.8	2955.4	2668.9	1545.4	1117.8	818.1	545.7
80°	3317.0	2756.4	2332.9	2021.7	1944.9	2062.2	1746.8	911.4	662.1	469.7	342.6
82.5°	2370.1	1982.9	1613.9	1416.6	1285.3	1471.9	1030.3	506.0	359.1	281.5	227.0
85°	1536.3	1468.6	1452.9	1388.5	1229.2	1160.7	782.6	435.9	269.1	175.0	141.2
87.5°	591.1	757.8	874.2	937.0	1012.9	902.3	407.8	150.2	147.8	90.8	68.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
2.5°	1429.8	1426.5	1425.7	1423.2	1421.6	1421.6	1417.4	1342.3	1341.5	1341.5	1340.7
5°	1460.4	1456.2	1452.1	1451.3	1448.0	1448.0	1443.8	1368.7	1368.7	1368.7	1367.1
7.5°	1501.6	1493.4	1488.4	1485.9	1481.0	1483.5	1486.8	1410.8	1411.6	1410.8	1412.5
10°	1531.3	1526.4	1520.6	1519.0	1515.7	1518.1	1523.1	1448.0	1450.4	1451.3	1452.9
12.5°	1560.2	1552.0	1544.6	1542.1	1540.4	1547.0	1552.8	1480.2	1482.6	1485.1	1485.1
15°	1595.7	1581.7	1571.8	1566.0	1562.7	1569.3	1577.6	1505.8	1506.6	1509.1	1508.2
17.5°	1656.0	1635.4	1612.3	1608.1	1597.4	1599.9	1601.5	1521.4	1518.1	1512.4	1502.5
20°	1749.3	1717.9	1686.5	1673.3	1651.9	1642.8	1624.6	1522.3	1501.6	1484.3	1469.4
22.5°	1883.0	1836.8	1802.9	1780.7	1736.9	1706.4	1656.8	1518.1	1479.3	1449.6	1426.5
25°	2099.3	2044.0	1992.0	1935.9	1867.3	1806.2	1733.6	1554.5	1494.2	1443.0	1398.4
27.5°	2309.8	2222.3	2142.2	2058.0	1961.4	1869.8	1767.4	1566.0	1497.5	1431.5	1358.8
30°	2467.5	2340.4	2219.0	2096.0	1969.7	1850.8	1735.3	1526.4	1444.7	1370.4	1293.6
32.5°	2563.3	2398.1	2240.5	2087.8	1939.2	1805.4	1675.8	1457.9	1367.9	1280.4	1198.7
35°	2654.1	2449.3	2253.7	2073.7	1903.7	1755.1	1615.6	1377.8	1270.5	1177.2	1074.0
37.5°	2766.3	2503.0	2261.9	2048.1	1851.7	1681.6	1528.0	1277.1	1169.8	1055.0	957.6
40°	2900.9	2558.3	2253.7	1996.9	1770.8	1585.0	1422.4	1171.4	1051.7	940.3	844.5
42.5°	3028.9	2607.0	2232.2	1928.4	1682.4	1484.3	1325.8	1077.3	957.6	843.7	748.8
45°	3123.8	2648.3	2221.5	1880.5	1614.7	1415.8	1240.8	1001.4	875.1	760.3	663.7
47.5°	3189.8	2673.0	2216.5	1854.1	1567.7	1344.8	1163.2	925.4	792.5	676.9	582.8
50°	3224.5	2672.2	2204.2	1825.2	1498.3	1259.8	1083.1	848.6	716.6	603.5	517.6
52.5°	3233.6	2657.4	2177.7	1772.4	1414.1	1174.7	997.2	768.6	649.7	541.5	454.9
55°	3212.9	2621.0	2122.4	1684.1	1324.1	1084.7	918.8	705.8	584.5	482.1	414.4
57.5°	3154.3	2556.7	2018.4	1562.7	1229.2	1001.4	828.8	629.9	513.5	427.6	371.5
60°	3045.4	2420.4	1855.8	1419.1	1108.7	874.2	705.0	530.8	438.4	374.0	328.6
62.5°	2843.9	2206.6	1627.1	1221.0	935.3	709.1	563.0	423.5	354.2	312.0	284.0
65°	2519.5	1884.7	1362.1	961.7	710.8	516.0	418.5	318.7	268.3	242.7	234.4
67.5°	2056.4	1455.4	990.6	667.8	481.3	361.6	291.4	232.8	208.9	199.0	195.6
70°	1495.0	991.5	641.4	421.8	317.8	252.6	220.4	187.4	174.2	171.7	171.7
72.5°	938.6	602.6	392.9	288.9	241.1	204.7	188.2	165.1	160.2	158.5	156.0
75°	550.6	365.7	278.2	236.9	206.4	183.3	169.2	150.2	146.9	146.1	143.6
77.5°	350.8	263.3	224.5	202.3	186.6	165.9	153.5	133.7	132.9	132.1	131.3
80°	251.8	218.8	196.5	179.1	163.5	144.5	137.0	121.4	119.7	118.9	120.5
82.5°	190.7	180.8	171.7	158.5	137.0	123.0	117.2	106.5	107.3	103.2	102.4
85°	131.3	129.6	128.8	123.0	107.3	94.9	90.8	85.0	89.2	85.0	80.1
87.5°	64.4	63.6	58.6	69.3	64.4	51.2	46.2	51.2	57.0	55.3	51.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P158895

CATALOG NUMBER: VST-F05-LED-E-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
2.5°	1337.4	1334.0	1336.5	1334.9	1334.9	1334.0	1335.7	1333.2	1331.6	1333.2	1334.0
5°	1363.8	1359.6	1360.5	1354.7	1357.2	1351.4	1353.0	1348.9	1344.8	1343.1	1343.1
7.5°	1408.3	1404.2	1399.3	1398.4	1389.4	1386.1	1380.3	1377.0	1374.5	1368.7	1365.4
10°	1448.8	1442.2	1436.4	1435.6	1426.5	1418.3	1410.8	1404.2	1400.1	1391.8	1387.7
12.5°	1481.8	1475.2	1466.1	1461.2	1452.1	1442.2	1437.2	1427.3	1421.6	1412.5	1405.0
15°	1500.8	1489.2	1476.0	1467.0	1453.7	1443.0	1435.6	1428.2	1422.4	1410.8	1400.1
17.5°	1491.7	1472.7	1454.6	1438.1	1419.9	1410.0	1399.3	1390.2	1388.5	1375.3	1358.8
20°	1453.7	1431.5	1407.5	1385.2	1361.3	1347.3	1334.0	1320.0	1315.9	1300.2	1278.7
22.5°	1407.5	1381.9	1354.7	1327.4	1296.9	1277.1	1257.3	1239.9	1225.9	1202.8	1172.2
25°	1360.5	1322.5	1282.9	1248.2	1212.7	1187.9	1167.3	1148.3	1131.8	1094.6	1063.3
27.5°	1298.6	1239.1	1198.7	1159.0	1116.1	1083.9	1060.8	1034.4	1016.2	973.3	940.3
30°	1219.3	1159.9	1102.1	1062.5	1019.5	984.9	955.1	917.2	890.7	859.4	828.8
32.5°	1119.4	1060.0	1001.4	956.8	921.3	878.4	841.2	804.9	774.3	743.8	719.9
35°	998.1	940.3	885.0	840.4	800.8	766.9	731.4	700.0	665.4	632.4	618.3
37.5°	870.1	808.2	747.1	708.3	676.9	653.0	620.0	594.4	563.0	543.2	526.7
40°	758.7	692.6	634.8	601.8	577.0	549.8	522.6	502.7	480.5	460.6	448.3
42.5°	664.5	602.6	553.1	525.0	495.3	465.6	445.0	428.4	414.4	399.6	384.7
45°	577.9	518.4	477.2	442.5	417.7	393.8	379.7	372.3	364.1	355.0	345.1
47.5°	505.2	454.0	413.6	381.4	355.8	339.3	332.7	330.2	326.9	319.5	314.5
50°	449.9	407.8	366.5	337.6	316.2	307.9	300.5	298.0	293.9	291.4	288.1
52.5°	403.7	359.1	324.4	298.0	284.8	281.5	278.2	274.9	274.1	272.4	270.8
55°	365.7	326.9	294.7	274.9	268.3	265.8	265.0	261.7	260.9	260.9	258.4
57.5°	331.9	298.8	269.9	257.6	253.4	251.0	249.3	247.7	247.7	249.3	248.5
60°	297.2	269.1	251.8	245.2	242.7	238.6	234.4	232.8	233.6	237.8	237.8
62.5°	263.3	242.7	232.0	229.5	227.0	223.7	218.8	217.1	218.8	223.7	226.2
65°	226.2	217.1	213.8	212.2	210.5	208.0	204.7	203.1	203.9	206.4	209.7
67.5°	192.3	191.5	191.5	192.3	191.5	190.7	189.0	186.6	185.7	185.7	187.4
70°	171.7	171.7	174.2	174.2	173.4	173.4	170.9	168.4	166.8	165.1	165.9
72.5°	156.0	156.0	156.8	157.7	156.8	156.8	153.5	151.9	147.8	146.9	145.3
75°	142.8	141.2	141.2	140.3	139.5	140.3	137.0	132.9	131.3	130.4	128.8
77.5°	129.6	126.3	124.7	123.0	123.8	123.0	120.5	118.1	115.6	114.7	113.9
80°	114.7	109.8	107.3	103.2	105.7	106.5	104.8	102.4	101.5	100.7	99.9
82.5°	94.9	90.0	86.7	84.2	82.6	84.2	86.7	92.5	90.8	90.0	88.3
85°	74.3	66.0	61.9	62.7	58.6	59.4	66.9	70.2	70.2	71.8	70.2
87.5°	42.1	40.5	30.5	28.1	29.7	35.5	39.6	43.8	43.8	41.3	46.2
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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CATALOG NUMBER: VST-F05-LED-E-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
2.5°	1334.0	1335.7	1336.5	1339.8	1341.5	1342.3	1343.1	1344.8	1345.6	1344.8	1348.9
5°	1340.7	1340.7	1339.0	1341.5	1342.3	1342.3	1340.7	1342.3	1342.3	1342.3	1346.4
7.5°	1358.0	1353.0	1350.6	1347.3	1344.8	1341.5	1337.4	1337.4	1336.5	1337.4	1339.8
10°	1376.2	1368.7	1359.6	1351.4	1344.0	1338.2	1330.7	1328.3	1327.4	1326.6	1333.2
12.5°	1390.2	1377.0	1362.9	1348.9	1334.0	1324.1	1311.8	1304.3	1303.5	1303.5	1311.8
15°	1380.3	1358.8	1331.6	1306.8	1293.6	1279.6	1265.5	1256.4	1255.6	1257.3	1262.2
17.5°	1330.7	1296.1	1272.1	1248.2	1230.9	1219.3	1210.2	1208.6	1211.9	1208.6	1215.2
20°	1246.5	1209.4	1192.9	1173.9	1167.3	1159.0	1145.8	1134.3	1134.3	1119.4	1123.5
22.5°	1137.6	1116.9	1095.5	1080.6	1075.7	1061.6	1047.6	1031.9	1030.3	1012.1	1009.6
25°	1023.7	1003.0	985.7	982.4	967.5	948.5	935.3	917.2	913.0	894.9	892.4
27.5°	907.3	890.7	873.4	863.5	855.2	834.6	823.0	801.6	793.3	773.5	771.0
30°	796.6	785.1	764.4	756.2	740.5	716.6	691.8	678.6	672.0	651.3	644.7
32.5°	692.6	674.5	658.8	648.9	629.0	601.8	579.5	560.5	548.1	523.4	516.8
35°	593.6	575.4	568.0	542.4	525.0	506.9	476.3	464.8	442.5	423.5	416.9
37.5°	506.0	488.7	478.8	457.3	440.0	421.8	403.7	388.8	378.1	374.0	374.0
40°	430.9	421.8	409.5	393.8	382.2	369.0	359.1	354.2	353.3	355.0	359.1
42.5°	377.3	367.4	359.1	350.8	342.6	340.9	338.5	341.8	345.9	350.0	354.2
45°	336.8	328.6	323.6	320.3	319.5	322.0	326.9	331.9	339.3	344.2	347.5
47.5°	307.9	301.3	299.7	298.8	303.0	310.4	317.0	324.4	330.2	335.2	338.5
50°	283.2	277.4	276.6	275.7	281.5	288.1	293.9	303.8	307.9	311.2	313.7
52.5°	265.8	260.9	258.4	259.2	265.0	270.8	279.0	286.5	292.2	294.7	297.2
55°	251.8	250.1	244.4	246.8	252.6	260.0	268.3	276.6	282.3	286.5	290.6
57.5°	241.1	236.9	232.8	236.9	242.7	250.1	260.0	267.5	274.9	280.7	284.8
60°	229.5	226.2	222.9	227.0	232.8	240.2	247.7	257.6	266.6	272.4	276.6
62.5°	219.6	217.1	213.8	214.6	217.1	222.1	226.2	235.3	243.5	251.0	255.9
65°	205.6	204.7	199.8	200.6	202.3	207.2	210.5	218.8	227.0	233.6	237.8
67.5°	184.9	183.3	183.3	185.7	186.6	189.0	191.5	199.8	206.4	211.3	216.3
70°	164.3	163.5	163.5	165.1	164.3	166.8	170.1	177.5	185.7	190.7	195.6
72.5°	144.5	144.5	143.6	145.3	145.3	146.1	150.2	156.8	164.3	168.4	171.7
75°	127.1	126.3	126.3	126.3	127.1	127.1	131.3	137.0	144.5	146.9	151.9
77.5°	111.4	111.4	111.4	111.4	112.3	111.4	113.9	118.1	120.5	124.7	124.7
80°	98.2	97.4	98.2	99.1	99.1	98.2	98.2	99.1	99.9	99.9	99.9
82.5°	86.7	84.2	85.9	90.0	90.0	90.0	89.2	83.4	79.3	79.3	80.9
85°	69.3	69.3	70.2	75.9	76.8	73.5	76.8	68.5	60.3	57.8	59.4
87.5°	42.9	33.8	41.3	47.1	47.1	44.6	49.5	46.2	38.8	31.4	29.7
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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REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	0°
2.5°	1352.2	1353.0	1358.0	1360.5	1360.5	1363.8	1365.4	1370.4	1369.5	1369.5	1371.2	2.5°
5°	1350.6	1353.0	1358.0	1361.3	1362.9	1367.1	1370.4	1376.2	1375.3	1377.0	1377.8	5°
7.5°	1344.8	1351.4	1356.3	1362.9	1368.7	1372.0	1376.2	1381.1	1379.5	1380.3	1379.5	7.5°
10°	1339.8	1346.4	1356.3	1365.4	1373.7	1378.6	1381.1	1386.9	1386.1	1387.7	1387.7	10°
12.5°	1320.0	1331.6	1344.0	1358.0	1370.4	1383.6	1391.8	1404.2	1410.0	1417.4	1425.7	12.5°
15°	1269.7	1282.9	1302.7	1318.4	1342.3	1360.5	1384.4	1408.3	1429.8	1450.4	1474.4	15°
17.5°	1220.1	1225.9	1241.6	1263.1	1284.5	1311.8	1340.7	1383.6	1422.4	1464.5	1510.7	17.5°
20°	1128.5	1138.4	1149.1	1174.7	1200.3	1239.1	1274.6	1330.7	1387.7	1453.7	1524.7	20°
22.5°	1015.4	1025.3	1036.9	1065.8	1097.1	1136.7	1179.7	1242.4	1318.4	1404.2	1499.2	22.5°
25°	893.2	899.0	908.1	937.0	956.0	1008.0	1060.0	1125.2	1207.7	1318.4	1429.0	25°
27.5°	758.7	769.4	776.8	790.0	833.8	878.4	932.8	1003.0	1102.9	1216.0	1349.7	27.5°
30°	629.9	639.0	634.8	662.9	691.8	738.8	797.5	875.1	970.8	1105.4	1259.8	30°
32.5°	503.6	510.2	507.7	527.5	556.4	603.5	658.8	743.0	844.5	988.2	1155.7	32.5°
35°	415.2	416.9	426.0	435.1	459.8	497.8	544.8	618.3	722.3	854.4	1031.9	35°
37.5°	374.0	377.3	383.0	395.4	413.6	440.8	479.6	536.6	625.7	742.1	900.6	37.5°
40°	361.6	364.1	367.4	375.6	392.9	416.9	451.6	499.4	564.7	662.9	791.7	40°
42.5°	355.8	355.8	355.8	360.8	374.0	399.6	439.2	486.2	543.2	617.5	721.5	42.5°
45°	347.5	347.5	346.7	349.2	358.3	383.9	426.8	479.6	540.7	611.7	701.7	45°
47.5°	338.5	337.6	335.2	335.2	340.9	366.5	411.1	468.1	534.9	616.7	713.3	47.5°
50°	313.7	313.7	313.7	316.2	321.1	344.2	392.1	452.4	529.2	620.0	731.4	50°
52.5°	299.7	300.5	303.0	303.0	307.9	331.9	382.2	449.1	532.5	632.4	754.5	52.5°
55°	293.1	295.5	298.0	298.0	302.1	326.9	378.9	451.6	544.8	657.9	794.2	55°
57.5°	287.3	289.8	291.4	291.4	294.7	316.2	369.8	447.4	552.3	682.7	842.9	57.5°
60°	276.6	278.2	279.0	279.0	279.9	298.0	349.2	427.6	535.8	681.1	869.3	60°
62.5°	256.7	260.0	260.9	261.7	261.7	279.0	322.8	395.4	500.3	656.3	861.8	62.5°
65°	241.9	243.5	246.0	247.7	251.0	262.5	297.2	356.6	454.0	606.8	820.6	65°
67.5°	218.8	221.2	223.7	227.0	230.3	237.8	265.0	312.9	391.3	522.6	728.1	67.5°
70°	198.1	199.0	201.4	205.6	206.4	210.5	230.3	263.3	320.3	419.4	586.1	70°
72.5°	172.5	174.2	177.5	182.4	182.4	185.7	197.3	214.6	251.0	320.3	432.6	72.5°
75°	150.2	151.9	154.4	154.4	150.2	151.1	159.3	171.7	199.0	241.1	315.4	75°
77.5°	124.7	128.0	130.4	125.5	123.8	126.3	130.4	139.5	159.3	191.5	236.9	77.5°
80°	103.2	104.8	105.7	106.5	104.8	107.3	110.6	116.4	129.6	154.4	187.4	80°
82.5°	82.6	84.2	86.7	90.0	90.0	99.1	99.9	99.9	107.3	123.0	146.9	82.5°
85°	61.1	64.4	67.7	71.8	72.6	77.6	75.1	74.3	76.8	91.6	101.5	85°
87.5°	31.4	33.8	35.5	38.8	34.7	36.3	36.3	33.8	29.7	37.1	41.3	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°

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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
1372.8	1371.2	1372.8	1372.8	1375.3	1373.7	1461.2
1379.5	1377.8	1379.5	1381.1	1383.6	1383.6	1480.2
1380.3	1380.3	1378.6	1382.8	1386.1	1389.4	1498.3
1390.2	1390.2	1391.8	1392.7	1400.1	1408.3	1528.0
1430.6	1434.8	1442.2	1444.7	1457.9	1467.0	1604.0
1492.5	1515.7	1530.5	1535.5	1547.0	1564.4	1732.0
1555.3	1594.1	1634.5	1659.3	1674.2	1694.8	1888.8
1602.3	1675.0	1744.3	1806.2	1841.7	1882.2	2108.4
1606.5	1722.0	1839.3	1954.0	2049.0	2124.1	2405.6
1566.8	1718.7	1880.5	2056.4	2219.8	2355.2	2747.3
1516.5	1703.1	1909.4	2134.0	2348.6	2548.4	2999.1
1452.9	1676.6	1914.4	2167.0	2418.8	2659.0	3142.8
1356.3	1598.2	1855.0	2134.0	2426.2	2718.5	3235.2
1232.5	1479.3	1742.7	2060.5	2391.5	2742.4	3312.8
1106.2	1349.7	1632.9	1962.3	2336.2	2738.3	3344.2
972.5	1214.3	1504.1	1857.4	2261.1	2700.3	3338.4
881.7	1102.1	1386.1	1750.9	2177.7	2649.9	3299.6
828.8	1022.0	1292.8	1653.5	2101.8	2589.7	3250.9
828.0	998.1	1243.2	1584.2	2025.0	2522.8	3184.9
856.9	1012.9	1237.5	1554.5	1982.9	2474.1	3113.1
890.7	1054.2	1268.0	1565.2	1982.1	2452.6	3062.7
944.4	1124.4	1334.9	1611.4	2003.5	2449.3	3000.8
1012.9	1219.3	1455.4	1725.3	2086.9	2514.5	3004.9
1083.1	1330.7	1613.1	1920.2	2251.2	2666.4	3135.3
1108.7	1416.6	1773.2	2148.8	2497.2	2894.3	3404.5
1086.4	1436.4	1870.6	2326.3	2736.6	3160.9	3725.6
1003.8	1356.3	1831.0	2376.7	2874.5	3350.0	4046.7
826.4	1157.4	1651.0	2263.6	2863.7	3388.8	4162.3
605.9	897.3	1342.3	1923.5	2545.9	3146.1	3988.9
437.5	634.8	969.2	1448.8	2012.6	2533.5	3345.9
313.7	440.0	629.0	951.8	1371.2	1764.1	2384.9
225.4	298.8	392.1	571.3	835.4	1083.1	1498.3
165.9	204.7	257.6	355.0	492.0	630.7	902.3
113.1	120.5	155.2	209.7	322.8	463.9	612.5
42.9	48.7	57.0	85.9	144.5	165.9	117.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)