

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 768367

Luminaire Tested: **TRU15SXX5F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768367
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TRU15SXX5F
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE V
Light Source: 150 WATT HPS CLEAR ED-23.5
Ballast/Driver: -

Summary

Lumens per Lamp: 16000 (1 lamp)
Luminaire Lumens: 9796.8 lumens
Efficiency: 61.2%
Efficacy: 52.1 lumens/watt
Luminous Opening: Rectangular (W 1.08' x L: 1.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

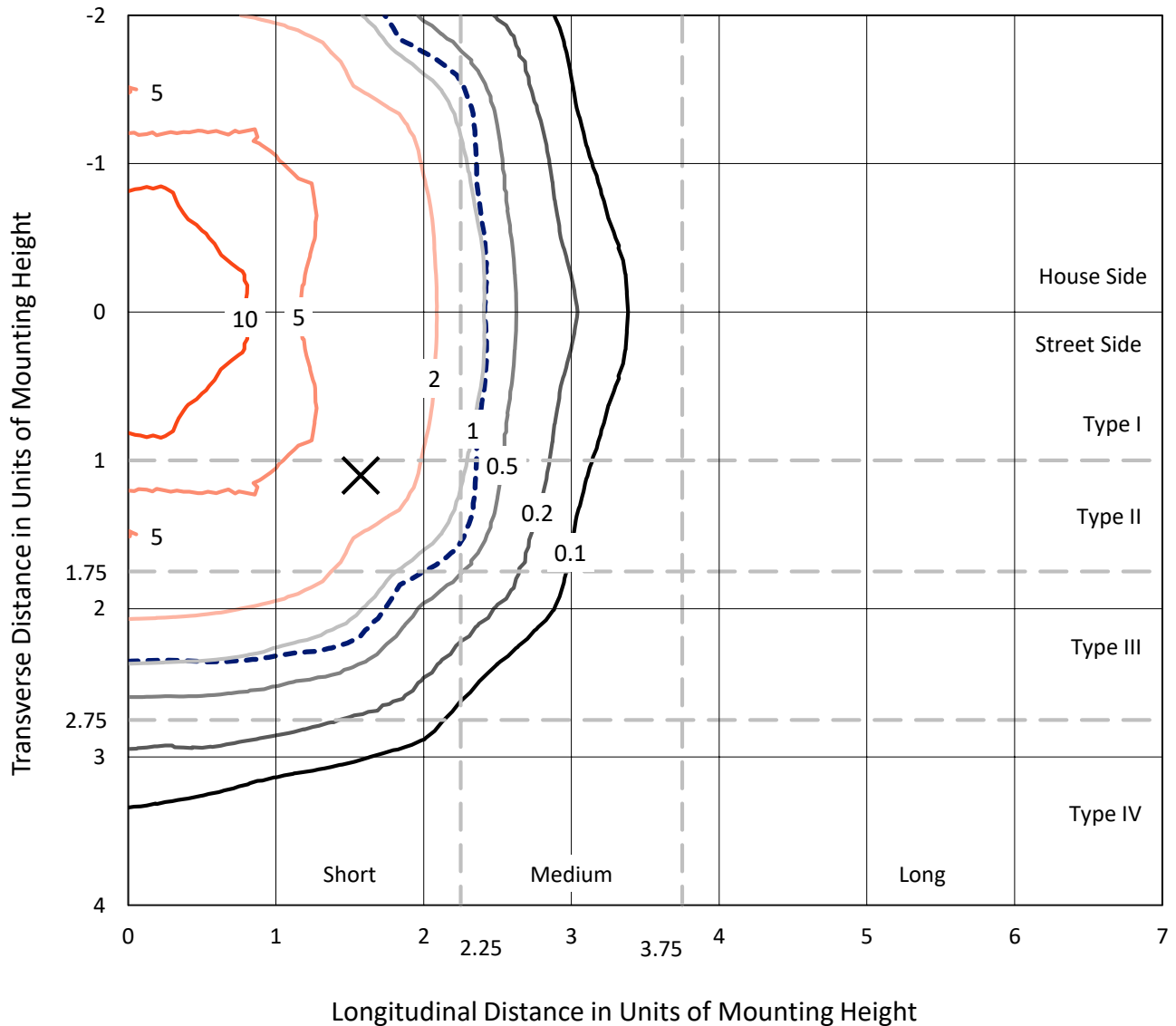
Input Watts (W): 188
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: 768367
 CATALOG NUMBER: TRU15SXX5F

Iso-Footcandle Lines of Horizontal Illumination

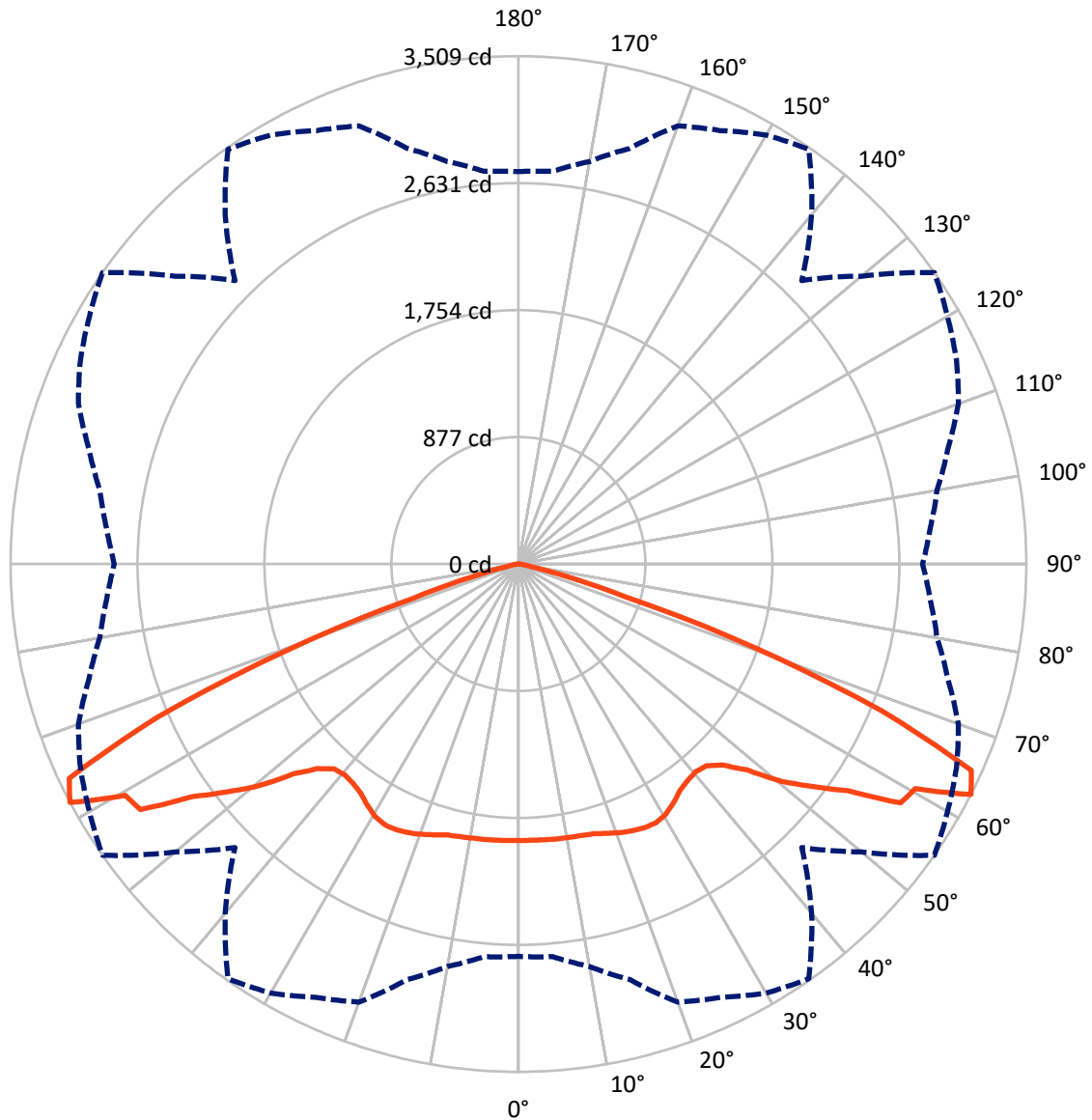
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.1 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: 768367
CATALOG NUMBER: TRU15SXX5F

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical



REPORT NUMBER: 768367
 CATALOG NUMBER: TRU15SXX5F

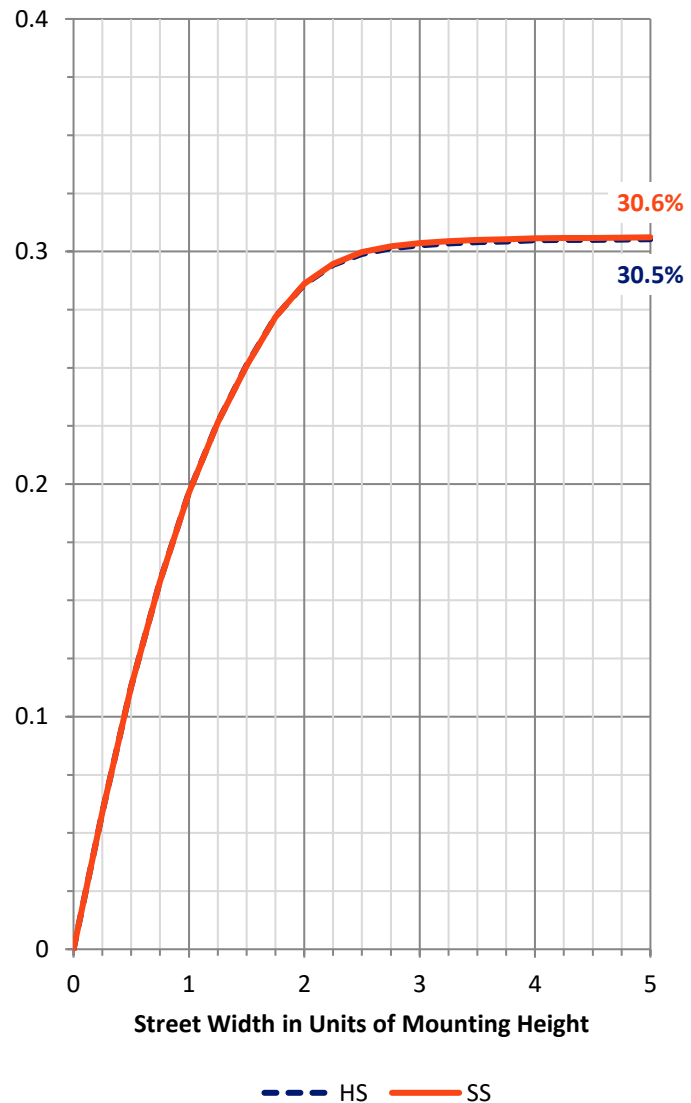
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4898.4	0.0	4898.4
	% Lamp	30.6	0.0	30.6
Street Side	Lumens	4898.4	0.0	4898.4
	% Lamp	30.6	0.0	30.6
Total	Lumens	9796.8	0.0	9796.8
	% Lamp	61.2	0.0	61.2

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	182.9	1.9	1.1
10°-20°	549.0	5.6	3.4
20°-30°	917.2	9.4	5.7
30°-40°	1274.8	13.0	8.0
40°-50°	1624.6	16.6	10.2
50°-60°	2315.9	23.6	14.5
60°-70°	2511.6	25.6	15.7
70°-80°	401.1	4.1	2.5
80°-90°	19.7	0.2	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	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°	9796.8	100.0	61.2
0°-180°	9796.8	100.0	61.2

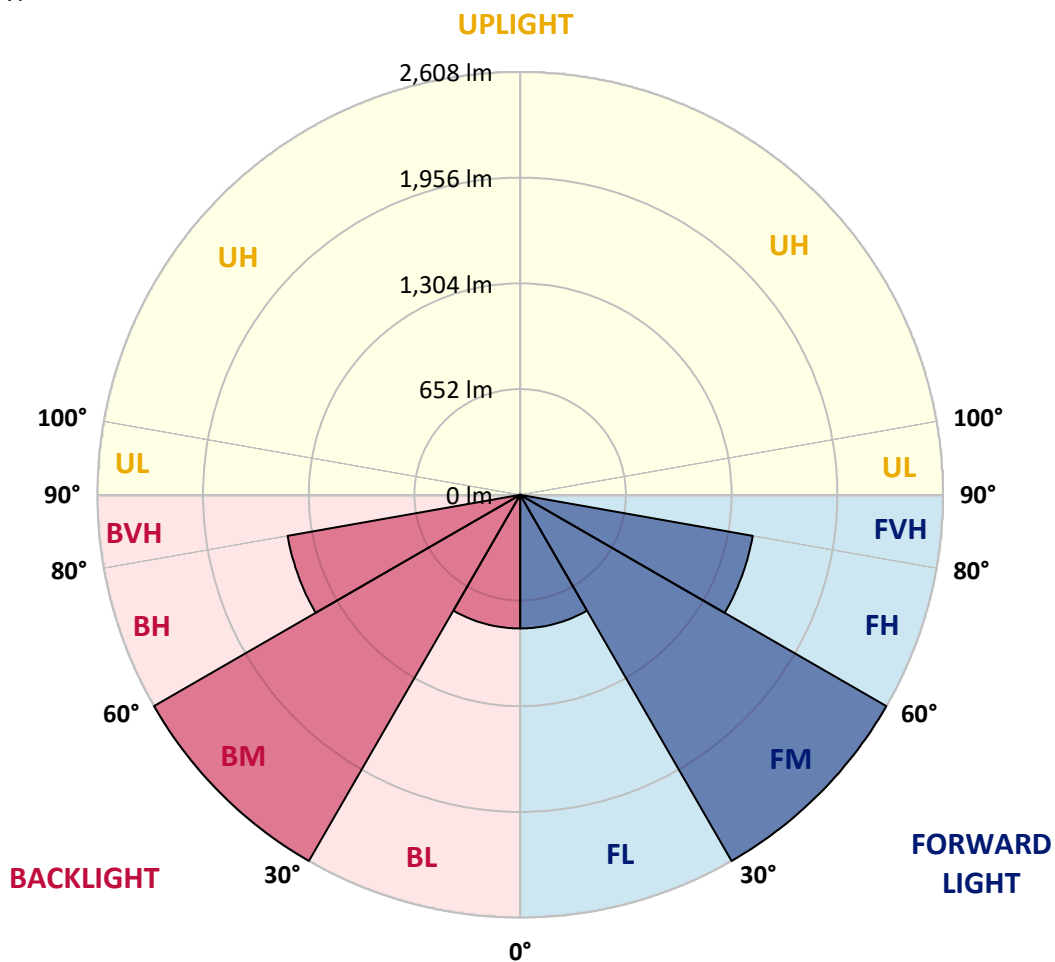


REPORT NUMBER: 768367
 CATALOG NUMBER: TRU15SXX5F

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	824.5	5.2			
FM	(30°-60°)	2607.7	16.3			
FH	(60°-80°)	1456.3	9.1			G1/1800
FVH	(80°-90°)	9.9	0.1			G0/10
BL	(0°-30°)	824.5	5.2	B2/1000		
BM	(30°-60°)	2607.7	16.3	B3/5000		
BH	(60°-80°)	1456.3	9.1	B3/2500		G1/1800
BVH	(80°-90°)	9.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		6203.2	38.8			

BUG Rating: B3-U0-G1
 Type V Short





REPORT NUMBER: 768367
 CATALOG NUMBER: TRU15SXX5F

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8
2.5°	1936.3	1913.0	1912.6	1909.9	1917.1	1917.1	1913.9	1914.8	1911.2	1913.5	1911.7
5°	1940.3	1917.1	1917.1	1914.8	1921.5	1921.5	1920.2	1920.6	1916.2	1917.1	1916.2
7.5°	1943.0	1914.8	1918.4	1913.9	1922.9	1921.5	1918.4	1923.8	1920.6	1921.5	1919.3
10°	1936.3	1912.6	1913.9	1913.9	1923.8	1923.8	1924.2	1929.6	1927.8	1926.0	1925.6
12.5°	1937.6	1915.7	1919.3	1919.3	1929.6	1935.4	1936.3	1935.0	1937.2	1931.8	1927.8
15°	1949.7	1927.3	1928.2	1927.8	1938.5	1946.2	1947.5	1954.2	1950.6	1945.3	1940.8
17.5°	1967.6	1941.7	1941.7	1939.9	1955.1	1966.7	1967.6	1977.5	1975.3	1972.1	1966.3
20°	1981.1	1955.6	1957.3	1957.3	1975.3	1984.7	1992.7	2005.7	2007.0	2003.5	1995.4
22.5°	1983.3	1959.6	1963.2	1965.0	1982.0	1999.0	2011.1	2028.1	2031.2	2024.5	2023.6
25°	1975.3	1955.1	1961.8	1964.1	1991.4	2014.6	2029.0	2050.5	2055.8	2046.9	2042.4
27.5°	1969.9	1952.9	1962.7	1975.3	2000.8	2017.8	2029.9	2053.6	2059.4	2052.7	2046.9
30°	1969.9	1956.4	1974.8	1985.5	1999.0	2012.4	2019.1	2041.1	2048.7	2038.4	2030.3
32.5°	1999.0	1999.9	2033.5	2041.5	2042.0	2010.2	1985.5	1995.8	2010.6	2012.4	1984.7
35°	2076.4	2092.1	2175.8	2183.4	2114.0	2025.8	1965.9	1947.5	1952.0	1952.0	1939.0
37.5°	2173.6	2214.8	2316.4	2314.6	2222.8	2072.9	1954.7	1913.9	1913.5	1910.8	1902.7
40°	2180.3	2225.1	2352.2	2381.8	2303.4	2126.6	1971.2	1897.8	1884.4	1884.8	1875.4
42.5°	2069.3	2119.9	2271.6	2363.9	2351.3	2192.8	2006.1	1903.6	1873.6	1871.4	1870.0
45°	1934.1	1984.2	2152.1	2323.6	2395.2	2290.9	2087.2	1946.2	1893.8	1888.0	1907.2
47.5°	1842.3	1866.9	2001.2	2189.3	2348.2	2346.8	2216.1	2070.2	1982.0	1982.4	2031.2
50°	1831.1	1823.0	1894.7	2044.2	2264.9	2373.3	2317.3	2249.7	2172.2	2181.2	2246.6
52.5°	2070.6	2022.3	1966.3	1989.1	2160.6	2363.9	2443.1	2446.7	2408.6	2391.2	2457.9
55°	2594.9	2532.2	2447.6	2260.9	2185.2	2348.2	2562.6	2703.2	2640.1	2692.9	2673.7
57.5°	3277.2	3222.1	3180.9	3014.4	2922.1	2869.8	2952.6	3128.1	3044.4	2950.3	2982.6
60°	3248.1	3263.7	3360.9	3429.4	3433.0	3387.7	3372.1	3283.4	3037.2	2796.3	2999.6
62.5°	2710.8	2722.9	2823.6	2972.7	3220.8	3303.6	3422.2	3497.4	3151.8	2769.0	3094.1
65°	2272.1	2261.8	2339.7	2444.9	2594.0	2800.4	3034.1	3224.3	3057.8	2719.8	2982.6
67.5°	1605.0	1602.8	1679.8	1837.4	1984.2	2093.0	2320.0	2484.7	2409.5	2243.0	2416.2
70°	668.4	683.2	822.0	912.4	1061.9	1220.4	1477.9	1621.6	1535.6	1383.8	1586.2
72.5°	532.3	487.1	474.6	450.8	458.9	517.1	628.6	761.5	714.5	705.6	729.3
75°	205.0	208.6	205.5	219.8	287.4	298.6	290.1	334.4	266.4	218.9	284.3
77.5°	79.7	77.0	76.1	72.1	81.5	86.9	83.7	88.6	81.0	97.2	95.4
80°	56.4	48.8	46.6	44.3	55.1	57.8	52.8	56.9	53.7	60.4	57.3
82.5°	31.3	25.1	25.1	19.7	25.5	27.8	20.1	19.7	19.7	26.9	25.1
85°	13.9	13.9	13.4	13.4	13.9	13.9	13.0	12.5	14.8	13.9	14.3
87.5°	10.7	10.3	10.3	9.8	9.8	9.4	9.0	9.4	9.0	9.8	9.8
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: 768367
 CATALOG NUMBER: TRU15SXX5F

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8
2.5°	1910.3	1900.5	1910.3	1910.3	1898.2	1908.1	1907.2	1907.2	1907.2	1908.1	1898.2
5°	1913.9	1902.7	1911.7	1912.6	1903.6	1909.4	1907.2	1907.2	1907.2	1909.4	1903.6
7.5°	1917.5	1904.5	1913.9	1917.1	1905.9	1912.6	1911.7	1913.9	1911.7	1912.6	1905.9
10°	1920.2	1907.2	1917.1	1914.4	1902.7	1911.7	1908.1	1907.2	1908.1	1911.7	1902.7
12.5°	1925.1	1911.7	1919.3	1919.3	1903.6	1906.3	1905.0	1902.7	1905.0	1906.3	1903.6
15°	1934.1	1917.1	1923.3	1919.3	1905.0	1907.2	1903.6	1904.1	1903.6	1907.2	1905.0
17.5°	1956.4	1934.1	1936.3	1922.9	1905.9	1909.4	1908.1	1905.0	1908.1	1909.4	1905.9
20°	1981.1	1953.3	1948.8	1932.7	1914.8	1916.2	1909.4	1911.7	1909.4	1916.2	1914.8
22.5°	2003.5	1976.6	1965.4	1948.4	1927.3	1923.8	1913.9	1911.7	1913.9	1923.8	1927.3
25°	2019.6	1987.8	1977.5	1956.0	1929.6	1924.2	1911.7	1906.3	1911.7	1924.2	1929.6
27.5°	2024.5	1985.5	1964.5	1946.2	1920.6	1921.5	1910.3	1907.2	1910.3	1921.5	1920.6
30°	2005.7	1967.6	1955.1	1936.8	1917.1	1928.2	1926.9	1925.1	1926.9	1928.2	1917.1
32.5°	1967.6	1937.6	1947.5	1955.1	1945.3	1967.6	1958.7	1952.0	1958.7	1967.6	1945.3
35°	1921.5	1917.1	1970.8	2008.8	2035.7	2042.4	2000.3	1982.4	2000.3	2042.4	2035.7
37.5°	1897.8	1926.0	2022.3	2110.5	2149.0	2136.0	2084.5	2061.7	2084.5	2136.0	2149.0
40°	1887.1	1949.7	2078.2	2192.4	2218.4	2199.1	2136.4	2106.4	2136.4	2199.1	2218.4
42.5°	1905.0	1996.7	2155.2	2265.4	2257.3	2187.0	2082.3	2025.4	2082.3	2187.0	2257.3
45°	1981.1	2091.7	2229.5	2278.8	2210.3	2101.5	1955.1	1889.3	1955.1	2101.5	2210.3
47.5°	2125.2	2204.0	2288.2	2234.0	2111.8	1977.5	1838.3	1786.3	1838.3	1977.5	2111.8
50°	2360.3	2411.3	2364.8	2234.5	2027.2	1873.6	1764.8	1730.4	1764.8	1873.6	2027.2
52.5°	2556.4	2583.2	2540.7	2317.3	2062.6	1900.5	1874.5	1855.7	1874.5	1900.5	2062.6
55°	2765.9	2737.7	2564.0	2310.1	2157.0	2144.5	2204.9	2209.4	2204.9	2144.5	2157.0
57.5°	3114.2	2943.6	2679.0	2522.8	2595.8	2692.9	2707.2	2671.0	2707.2	2692.9	2595.8
60°	3150.5	3039.0	2932.0	3097.6	3167.9	3167.9	3108.8	3073.5	3108.8	3167.9	3167.9
62.5°	3508.6	3422.2	3338.5	3234.6	3071.2	2936.9	2856.3	2791.4	2856.3	2936.9	3071.2
65°	3438.3	3326.9	2989.7	2795.9	2622.2	2441.8	2380.4	2366.1	2380.4	2441.8	2622.2
67.5°	2709.5	2552.8	2285.5	2063.4	1957.3	1902.3	1841.8	1770.7	1841.8	1902.3	1957.3
70°	1732.6	1605.0	1334.6	1051.6	844.4	763.3	744.1	780.8	744.1	763.3	844.4
72.5°	768.7	595.0	491.6	454.4	468.7	487.1	574.8	604.8	574.8	487.1	468.7
75°	331.7	315.2	277.1	268.2	227.4	233.3	223.4	199.2	223.4	233.3	227.4
77.5°	90.0	87.7	83.3	80.6	77.0	86.4	92.2	87.7	92.2	86.4	77.0
80°	56.0	53.7	53.3	50.1	49.7	51.5	55.1	55.5	55.1	51.5	49.7
82.5°	20.6	21.5	22.8	19.7	19.3	19.7	19.7	19.3	19.7	19.7	19.3
85°	14.3	13.9	13.9	13.9	13.4	13.0	13.0	13.4	13.0	13.0	13.4
87.5°	9.8	9.4	9.8	9.8	9.8	10.3	9.8	9.8	9.8	10.3	9.8
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: 768367
 CATALOG NUMBER: TRU15SXX5F

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8	1910.8
2.5°	1910.3	1910.3	1900.5	1910.3	1911.7	1913.5	1911.2	1914.8	1913.9	1917.1	1917.1
5°	1912.6	1911.7	1902.7	1913.9	1916.2	1917.1	1916.2	1920.6	1920.2	1921.5	1921.5
7.5°	1917.1	1913.9	1904.5	1917.5	1919.3	1921.5	1920.6	1923.8	1918.4	1921.5	1922.9
10°	1914.4	1917.1	1907.2	1920.2	1925.6	1926.0	1927.8	1929.6	1924.2	1923.8	1923.8
12.5°	1919.3	1919.3	1911.7	1925.1	1927.8	1931.8	1937.2	1935.0	1936.3	1935.4	1929.6
15°	1919.3	1923.3	1917.1	1934.1	1940.8	1945.3	1950.6	1954.2	1947.5	1946.2	1938.5
17.5°	1922.9	1936.3	1934.1	1956.4	1966.3	1972.1	1975.3	1977.5	1967.6	1966.7	1955.1
20°	1932.7	1948.8	1953.3	1981.1	1995.4	2003.5	2007.0	2005.7	1992.7	1984.7	1975.3
22.5°	1948.4	1965.4	1976.6	2003.5	2023.6	2024.5	2031.2	2028.1	2011.1	1999.0	1982.0
25°	1956.0	1977.5	1987.8	2019.6	2042.4	2046.9	2055.8	2050.5	2029.0	2014.6	1991.4
27.5°	1946.2	1964.5	1985.5	2024.5	2046.9	2052.7	2059.4	2053.6	2029.9	2017.8	2000.8
30°	1936.8	1955.1	1967.6	2005.7	2030.3	2038.4	2048.7	2041.1	2019.1	2012.4	1999.0
32.5°	1955.1	1947.5	1937.6	1967.6	1984.7	2012.4	2010.6	1995.8	1985.5	2010.2	2042.0
35°	2008.8	1970.8	1917.1	1921.5	1939.0	1952.0	1952.0	1947.5	1965.9	2025.8	2114.0
37.5°	2110.5	2022.3	1926.0	1897.8	1902.7	1910.8	1913.5	1913.9	1954.7	2072.9	2222.8
40°	2192.4	2078.2	1949.7	1887.1	1875.4	1884.8	1884.4	1897.8	1971.2	2126.6	2303.4
42.5°	2265.4	2155.2	1996.7	1905.0	1870.0	1871.4	1873.6	1903.6	2006.1	2192.8	2351.3
45°	2278.8	2229.5	2091.7	1981.1	1907.2	1888.0	1893.8	1946.2	2087.2	2290.9	2395.2
47.5°	2234.0	2288.2	2204.0	2125.2	2031.2	1982.4	1982.0	2070.2	2216.1	2346.8	2348.2
50°	2234.5	2364.8	2411.3	2360.3	2246.6	2181.2	2172.2	2249.7	2317.3	2373.3	2264.9
52.5°	2317.3	2540.7	2583.2	2556.4	2457.9	2391.2	2408.6	2446.7	2443.1	2363.9	2160.6
55°	2310.1	2564.0	2737.7	2765.9	2673.7	2692.9	2640.1	2703.2	2562.6	2348.2	2185.2
57.5°	2522.8	2679.0	2943.6	3114.2	2982.6	2950.3	3044.4	3128.1	2952.6	2869.8	2922.1
60°	3097.6	2932.0	3039.0	3150.5	2999.6	2796.3	3037.2	3283.4	3372.1	3387.7	3433.0
62.5°	3234.6	3338.5	3422.2	3508.6	3094.1	2769.0	3151.8	3497.4	3422.2	3303.6	3220.8
65°	2795.9	2989.7	3326.9	3438.3	2982.6	2719.8	3057.8	3224.3	3034.1	2800.4	2594.0
67.5°	2063.4	2285.5	2552.8	2709.5	2416.2	2243.0	2409.5	2484.7	2320.0	2093.0	1984.2
70°	1051.6	1334.6	1605.0	1732.6	1586.2	1383.8	1535.6	1621.6	1477.9	1220.4	1061.9
72.5°	454.4	491.6	595.0	768.7	729.3	705.6	714.5	761.5	628.6	517.1	458.9
75°	268.2	277.1	315.2	331.7	284.3	218.9	266.4	334.4	290.1	298.6	287.4
77.5°	80.6	83.3	87.7	90.0	95.4	97.2	81.0	88.6	83.7	86.9	81.5
80°	50.1	53.3	53.7	56.0	57.3	60.4	53.7	56.9	52.8	57.8	55.1
82.5°	19.7	22.8	21.5	20.6	25.1	26.9	19.7	19.7	20.1	27.8	25.5
85°	13.9	13.9	13.9	14.3	14.3	13.9	14.8	12.5	13.0	13.9	13.9
87.5°	9.8	9.8	9.4	9.8	9.8	9.8	9.0	9.4	9.0	9.4	9.8
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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