

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: P287045

Luminaire Tested: **USSL-C02-D-U-T4-BZ-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C02-D-U-T4-BZ-7050-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18479 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 153
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



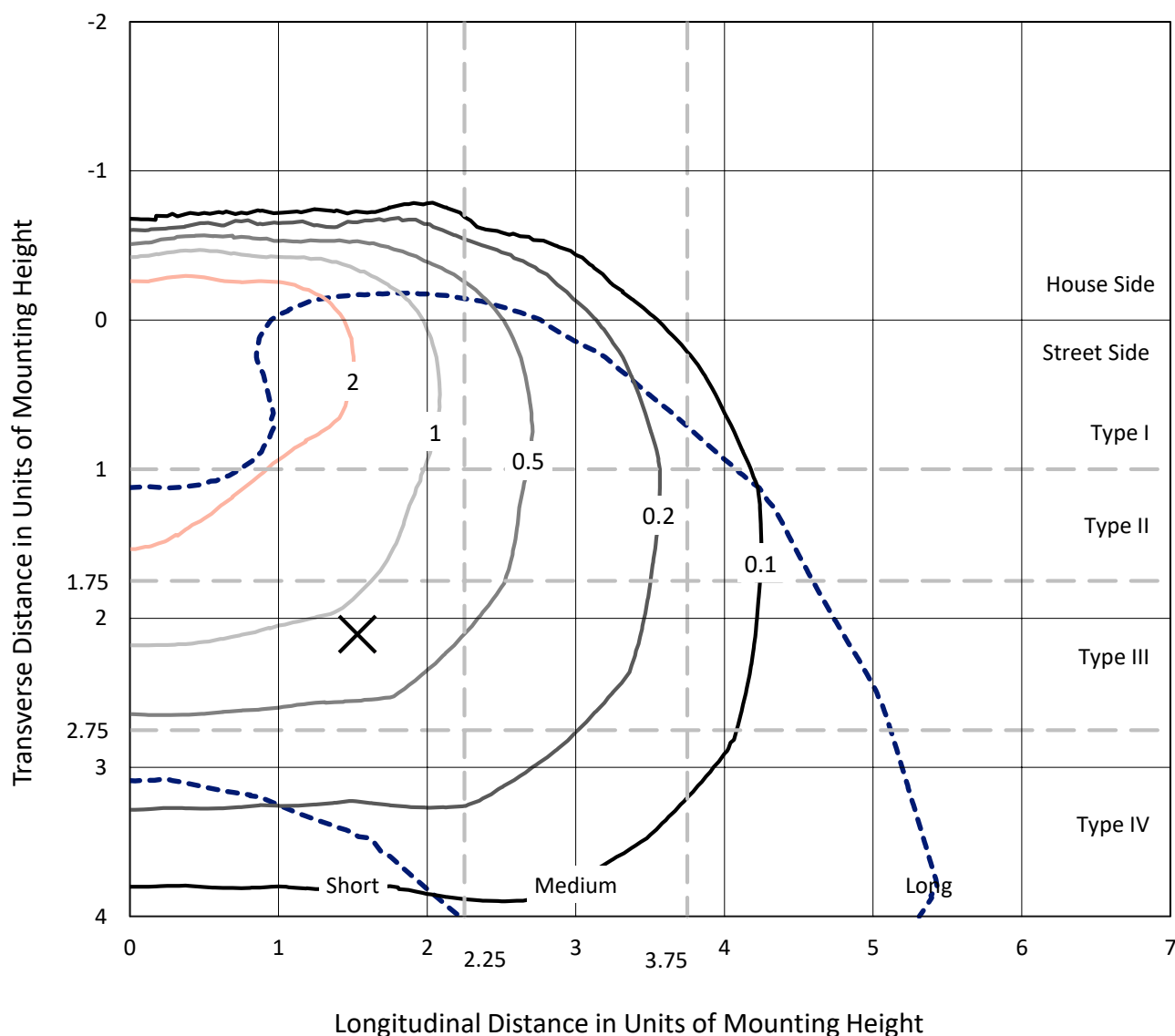
REPORT NUMBER: P287045

CATALOG NUMBER: USSL-C02-D-U-T4-BZ-7050-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

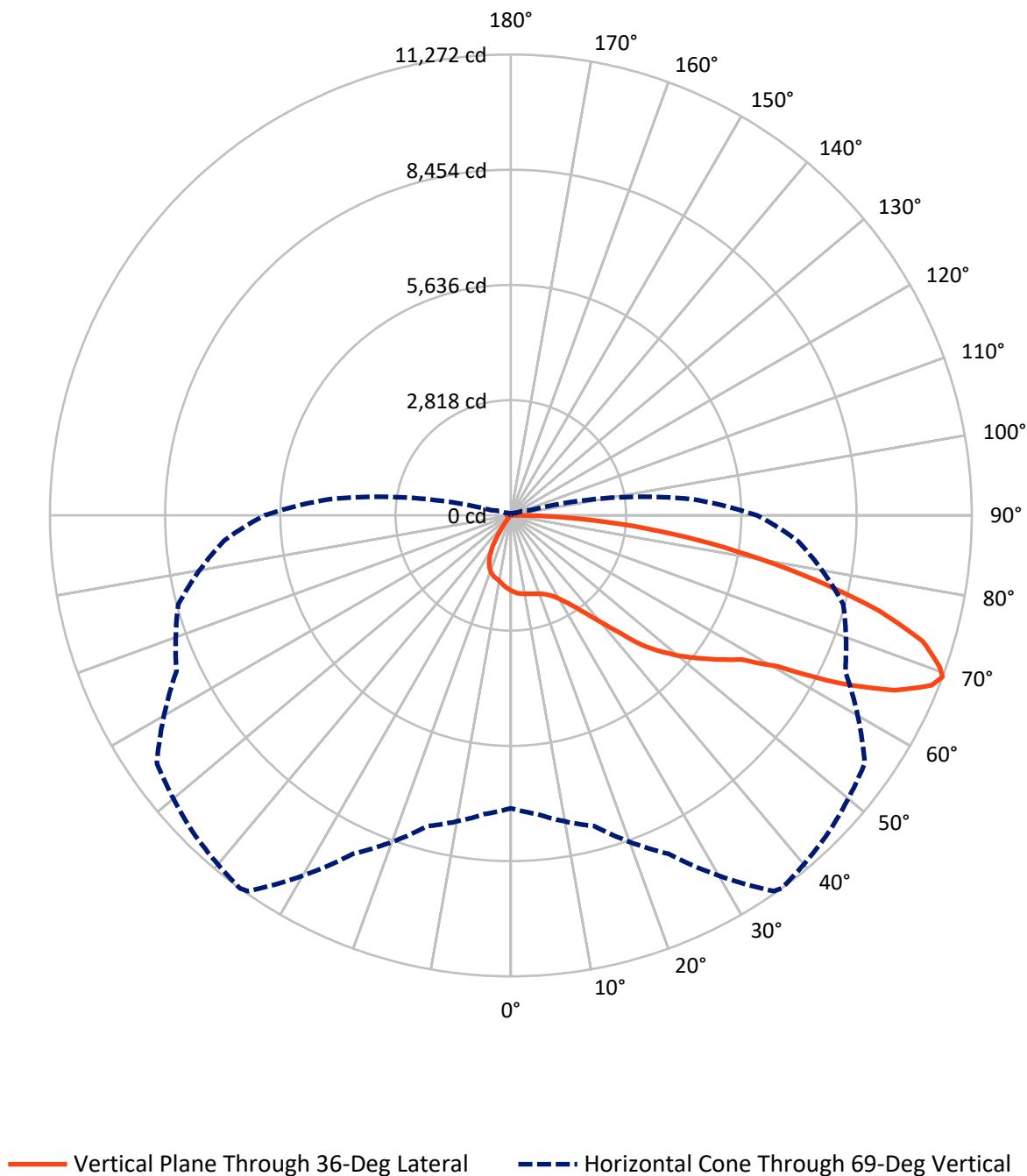


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P287045

CATALOG NUMBER: USSL-C02-D-U-T4-BZ-7050-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P287045

CATALOG NUMBER: USSL-C02-D-U-T4-BZ-7050-HSS

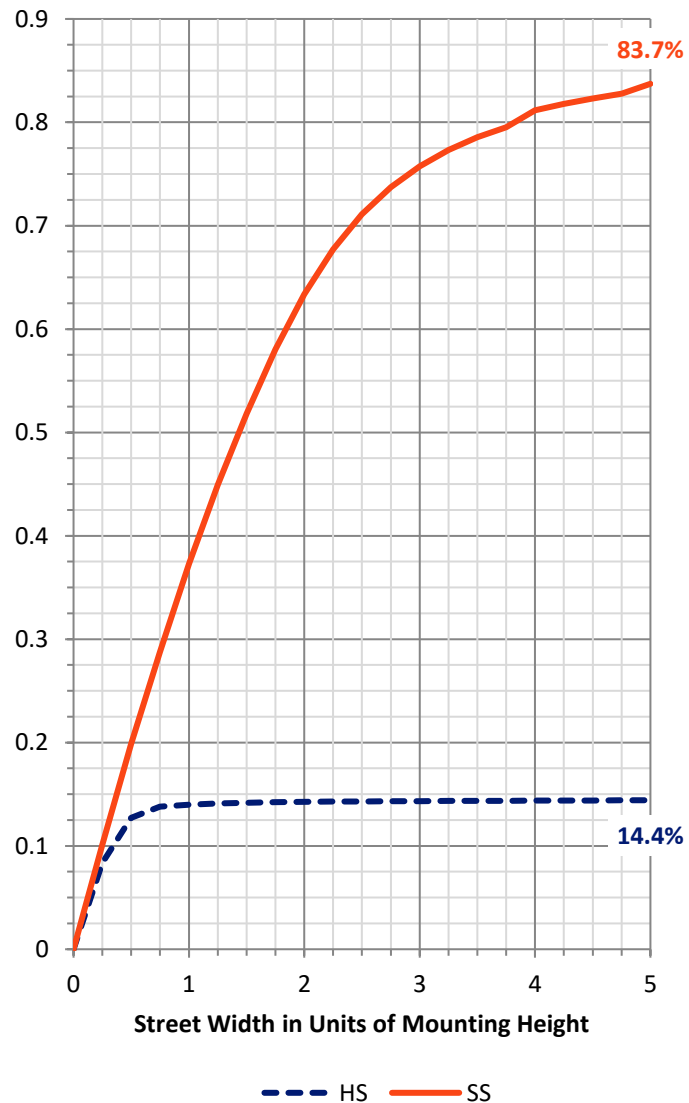
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2694.4	0.0	2694.4
	% Fixture	14.6	0.0	14.6
Street Side	Lumens	15784.6	0.0	15784.6
	% Fixture	85.4	0.0	85.4
Total	Lumens	18479.0	0.0	18479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	0.9
10°-20°	521.8	2.8
20°-30°	874.3	4.7
30°-40°	1413.9	7.7
40°-50°	2493.8	13.5
50°-60°	3635.0	19.7
60°-70°	4801.1	26.0
70°-80°	3691.6	20.0
80°-90°	872.8	4.7
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°	18479.0	100.0
0°-180°	18479.0	100.0

Coefficient of Utilization



REPORT NUMBER: P287045

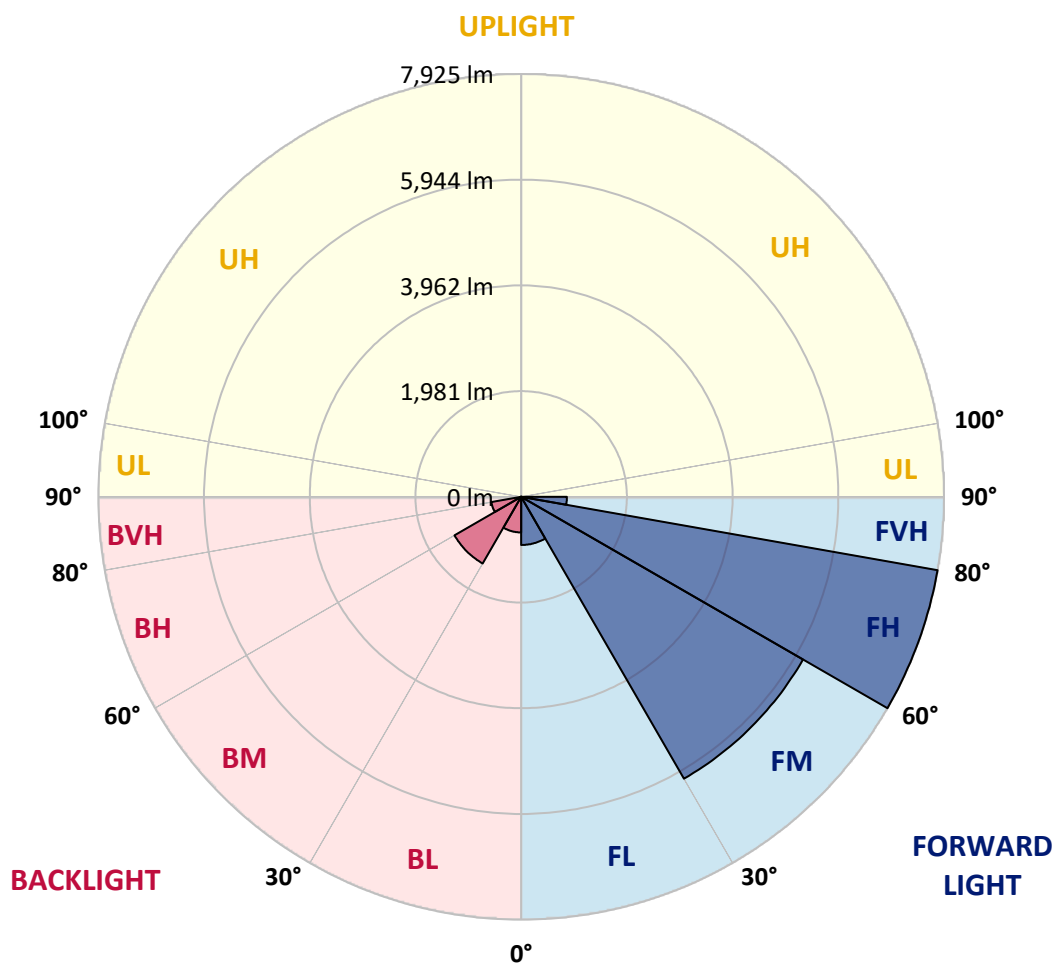
CATALOG NUMBER: USSL-C02-D-U-T4-BZ-7050-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	903.3	4.9			
FM	(30°-60°)	6100.0	33.0			
FH	(60°-80°)	7924.7	42.9			G4/12000
FVH	(80°-90°)	856.5	4.6			G5
BL	(0°-30°)	667.4	3.6	B2/1000		
BM	(30°-60°)	1442.7	7.8	B2/2500		
BH	(60°-80°)	568.0	3.1	B2/1000		G2/1000
BVH	(80°-90°)	16.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





REPORT NUMBER: P287045

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1841.2	1841.2	1841.2	1841.2	1841.2	1841.2	1841.2	1841.2	1841.2	1841.2	1841.2
2.5°	1909.1	1912.0	1903.1	1882.1	1877.1	1879.1	1881.1	1869.1	1856.2	1850.2	1836.2
5°	1943.0	1944.0	1940.0	1921.0	1916.0	1916.0	1914.0	1900.1	1887.1	1879.1	1859.2
7.5°	1952.0	1951.0	1953.0	1933.0	1938.0	1929.0	1935.0	1921.0	1909.1	1898.1	1880.1
10°	1965.9	1967.9	1965.9	1950.0	1952.0	1954.0	1953.0	1943.0	1942.0	1941.0	1910.0
12.5°	1958.9	1958.0	1963.9	1954.0	1967.9	1969.9	1991.9	1996.9	2001.9	2001.9	1969.9
15°	1954.0	1943.0	1967.9	1959.9	1988.9	1991.9	2024.8	2054.8	2060.7	2062.7	2050.8
17.5°	1960.9	1958.9	1993.9	1978.9	2019.8	2012.8	2044.8	2097.7	2125.6	2139.6	2146.6
20°	1990.9	1998.9	2027.8	2012.8	2046.8	2046.8	2081.7	2138.6	2191.5	2226.4	2233.4
22.5°	2036.8	2039.8	2073.7	2058.7	2085.7	2088.7	2118.6	2185.5	2257.3	2316.2	2346.1
25°	2085.7	2083.7	2111.6	2112.6	2148.6	2157.5	2183.5	2237.4	2332.2	2409.0	2490.8
27.5°	2157.5	2153.5	2186.5	2176.5	2243.4	2242.4	2272.3	2336.2	2442.9	2543.7	2668.5
30°	2274.3	2264.3	2284.3	2300.2	2376.1	2379.1	2406.0	2468.9	2576.7	2723.4	2875.1
32.5°	2462.9	2470.9	2468.9	2448.9	2544.7	2550.7	2616.6	2718.4	2828.2	3004.8	3182.4
35°	2860.1	2859.1	2805.2	2754.3	2763.3	2781.2	2867.1	3050.7	3275.2	3692.4	3849.0
37.5°	3354.1	3378.0	3283.2	3136.5	3088.6	3085.6	3160.5	3432.9	3800.1	4605.5	4668.3
40°	4007.7	3962.8	3848.0	3622.5	3501.8	3467.8	3492.8	3813.1	4376.9	5383.9	5324.0
42.5°	4451.8	4471.8	4346.0	4153.4	3973.8	3947.8	3889.0	4231.2	5001.7	6004.6	5836.9
45°	4984.7	5024.6	4885.9	4749.2	4567.6	4551.6	4462.8	4662.4	5602.4	6464.6	6238.1
47.5°	5448.7	5476.7	5255.1	5127.4	4996.7	4983.7	4899.9	5097.5	6124.3	6842.8	6566.4
50°	5948.7	5971.7	5730.1	5548.5	5424.8	5412.8	5365.9	5585.4	6653.2	7200.1	6837.9
52.5°	6586.4	6500.6	6207.2	5959.7	5822.0	5806.0	5828.9	6072.4	7154.2	7457.6	7055.4
55°	7332.8	7099.3	6724.1	6414.7	6209.2	6220.1	6247.1	6567.4	7580.3	7707.1	7219.1
57.5°	7782.9	7795.9	7514.5	7058.4	6668.2	6646.3	6626.3	7016.5	7926.6	7983.5	7377.7
60°	8384.7	8425.6	8388.7	8107.2	7581.3	7487.5	7162.2	7517.5	8293.8	8207.0	7472.5
62.5°	8841.7	8908.6	9124.1	8950.5	9011.4	9051.3	8156.1	8117.2	8631.2	8359.7	7492.5
65°	8736.9	8800.8	9242.9	9584.2	10226.9	10311.7	10086.1	8880.6	8894.6	8427.6	7428.6
67.5°	7943.6	8009.4	8548.3	9467.4	11001.2	11097.1	10856.5	10205.9	9025.3	8430.6	7266.0
69°	7162.2	7331.8	7864.7	9131.1	11217.8	11271.7	10979.3	10567.1	9023.3	8418.6	7036.4
70°	6695.2	6830.9	7435.6	8742.9	11105.0	11131.0	10905.4	10712.8	8989.4	8313.8	6820.9
72.5°	5382.9	5352.9	5996.6	7411.7	10559.2	10543.2	10568.1	10517.3	8927.5	7930.6	5911.8
75°	3901.9	3912.9	4508.7	5831.9	9181.0	9297.8	9796.7	10099.1	8325.8	6916.7	4350.0
77.5°	2773.3	2796.2	3308.2	4464.8	7567.4	7622.2	8537.3	8858.7	7005.5	5441.7	2371.1
80°	1856.2	1876.1	2355.1	3292.2	5780.0	5904.8	6902.7	6974.6	5302.0	3368.0	429.1
82.5°	1160.6	1170.6	1541.8	2345.2	4217.3	4278.2	4740.2	4601.5	2756.3	750.4	127.7
85°	665.6	677.6	945.0	1484.9	2663.5	2686.4	2994.8	2276.3	660.6	100.8	69.9
87.5°	190.6	204.6	391.2	640.7	1201.5	1192.5	1117.7	745.5	106.8	45.9	32.9
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: USSL-C02-D-U-T4-BZ-7050-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1841.2	1841.2	1841.2	1841.2	1841.2	1841.2	1841.2	1841.2	1841.2	1841.2	1841.2
2.5°	1825.2	1840.2	1822.2	1809.3	1794.3	1796.3	1796.3	1779.3	1779.3	1803.3	1806.3
5°	1848.2	1859.2	1828.2	1803.3	1771.3	1764.4	1744.4	1724.4	1717.4	1738.4	1741.4
7.5°	1869.1	1863.1	1826.2	1786.3	1744.4	1711.5	1686.5	1653.6	1638.6	1662.6	1666.6
10°	1890.1	1872.1	1834.2	1786.3	1719.4	1671.5	1634.6	1575.7	1559.8	1571.7	1577.7
12.5°	1948.0	1924.0	1880.1	1797.3	1721.4	1656.6	1584.7	1510.9	1473.0	1486.9	1494.9
15°	2033.8	1997.9	1952.0	1850.2	1745.4	1651.6	1553.8	1437.0	1368.2	1360.2	1362.2
17.5°	2135.6	2097.7	2036.8	1913.0	1779.3	1651.6	1506.9	1360.2	1246.4	1213.5	1217.5
20°	2238.4	2196.5	2147.6	1985.9	1811.3	1626.6	1449.0	1257.4	1094.7	1019.9	1019.9
22.5°	2356.1	2326.2	2244.4	2043.8	1822.2	1587.7	1360.2	1118.7	919.1	809.3	805.3
25°	2508.8	2481.9	2331.2	2089.7	1813.3	1538.8	1245.4	955.0	707.5	595.8	589.8
27.5°	2679.5	2626.6	2416.0	2123.6	1782.3	1460.0	1092.7	747.5	493.0	387.2	382.2
30°	2869.1	2792.2	2480.9	2117.6	1725.4	1327.3	913.1	502.0	287.4	217.6	217.6
32.5°	3141.5	3001.8	2557.7	2103.6	1646.6	1168.6	670.6	297.4	143.7	110.8	110.8
35°	3673.4	3410.9	2674.5	2065.7	1518.9	959.0	422.1	133.7	78.8	77.8	77.8
37.5°	4386.9	3938.9	2862.1	2009.8	1343.2	697.6	210.6	73.8	73.8	75.8	74.8
40°	5012.6	4507.7	3112.6	1925.0	1150.6	440.1	95.8	70.9	74.8	77.8	77.8
42.5°	5477.7	4946.8	3355.1	1801.3	919.1	224.5	79.8	68.9	71.9	72.8	73.8
45°	5871.9	5316.0	3548.7	1644.6	672.6	106.8	79.8	67.9	67.9	67.9	68.9
47.5°	6174.2	5586.4	3681.4	1460.0	418.1	89.8	83.8	66.9	62.9	60.9	61.9
50°	6410.7	5775.1	3728.3	1254.4	206.6	90.8	81.8	62.9	54.9	55.9	56.9
52.5°	6577.4	5927.7	3678.4	997.9	106.8	95.8	82.8	60.9	48.9	51.9	51.9
55°	6732.1	5965.7	3551.7	709.5	95.8	96.8	82.8	55.9	41.9	47.9	50.9
57.5°	6771.0	5964.7	3353.1	446.1	102.8	91.8	78.8	54.9	39.9	47.9	49.9
60°	6828.9	5915.8	3080.6	272.4	107.8	84.8	73.8	51.9	37.9	39.9	41.9
62.5°	6766.0	5831.9	2672.5	180.6	103.8	78.8	71.9	49.9	32.9	29.9	28.9
65°	6643.3	5551.5	2016.8	145.7	96.8	76.8	64.9	43.9	26.9	19.0	18.0
67.5°	6356.9	5018.6	1066.8	137.7	90.8	75.8	57.9	40.9	22.0	11.0	10.0
69°	6019.6	4478.7	484.0	139.7	105.8	75.8	58.9	35.9	20.0	8.0	7.0
70°	5667.3	3985.8	220.5	135.7	114.8	79.8	57.9	32.9	18.0	7.0	6.0
72.5°	4371.0	2477.9	150.7	120.8	127.7	77.8	57.9	30.9	17.0	4.0	3.0
75°	2594.6	614.7	135.7	95.8	121.7	94.8	69.9	33.9	15.0	2.0	0.0
77.5°	672.6	171.6	114.8	72.8	107.8	106.8	80.8	33.9	15.0	0.0	0.0
80°	173.6	131.7	98.8	46.9	84.8	103.8	65.9	37.9	12.0	0.0	0.0
82.5°	103.8	95.8	107.8	28.9	67.9	69.9	38.9	26.9	13.0	0.0	0.0
85°	59.9	82.8	75.8	22.0	13.0	7.0	16.0	29.9	13.0	0.0	0.0
87.5°	34.9	44.9	17.0	3.0	3.0	2.0	1.0	4.0	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

(END OF REPORT)