

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: P265728

Luminaire Tested: **ARCH-L-AF72-260-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T2U-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17354.5 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 261
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

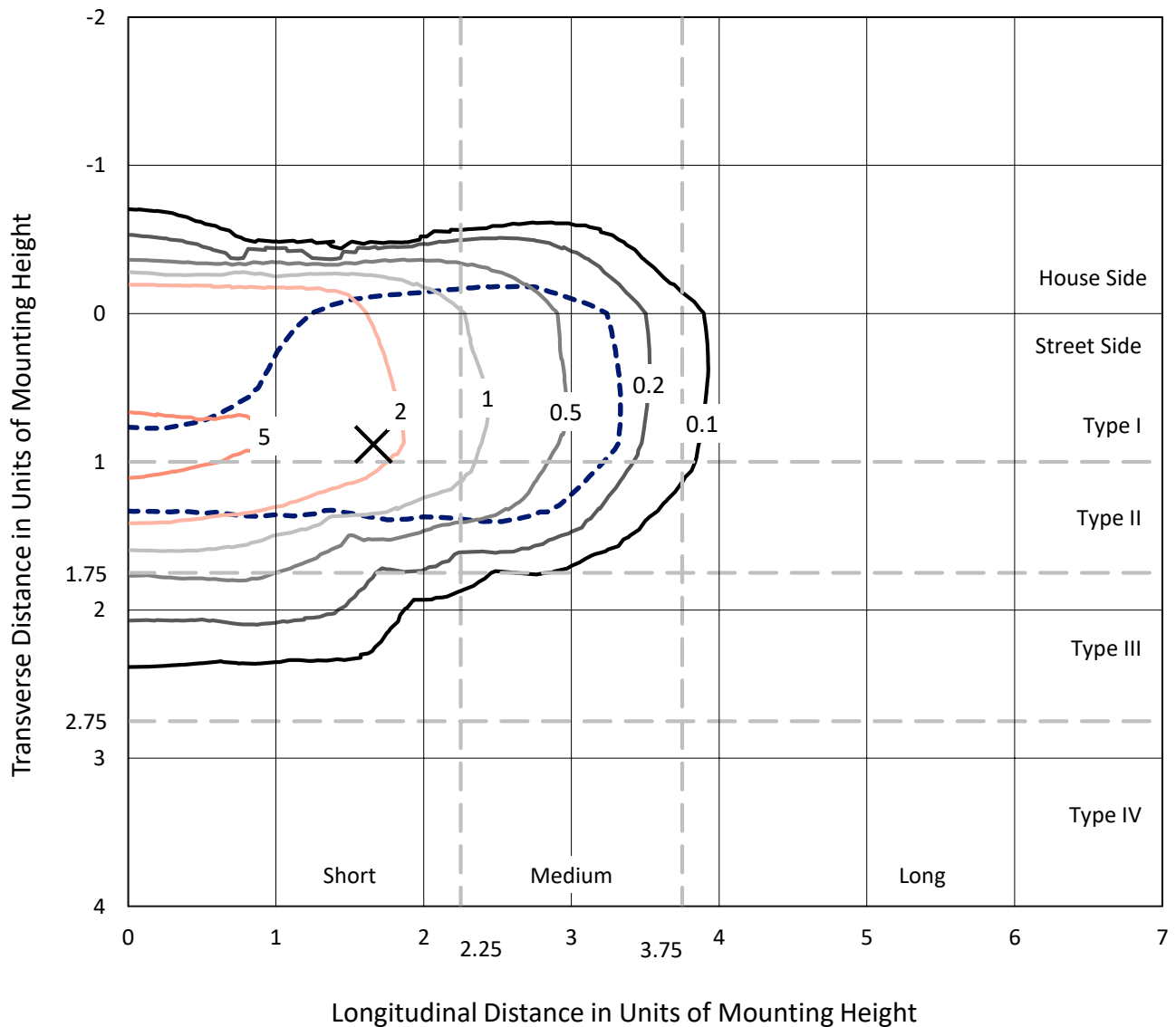


REPORT NUMBER: P265728

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2U-7027-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

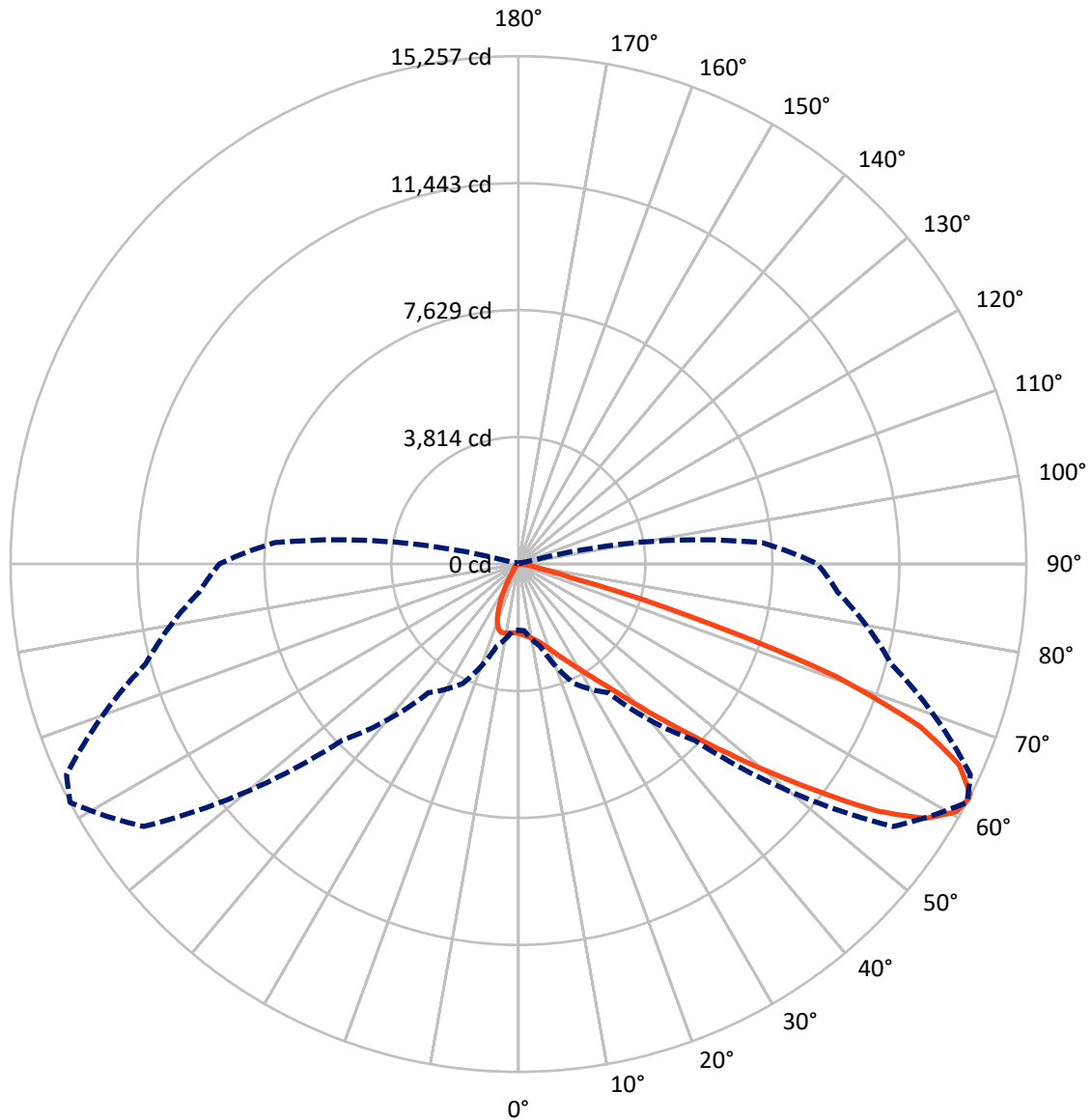


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P265728

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2U-7027-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical



REPORT NUMBER: P265728

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2U-7027-HSS

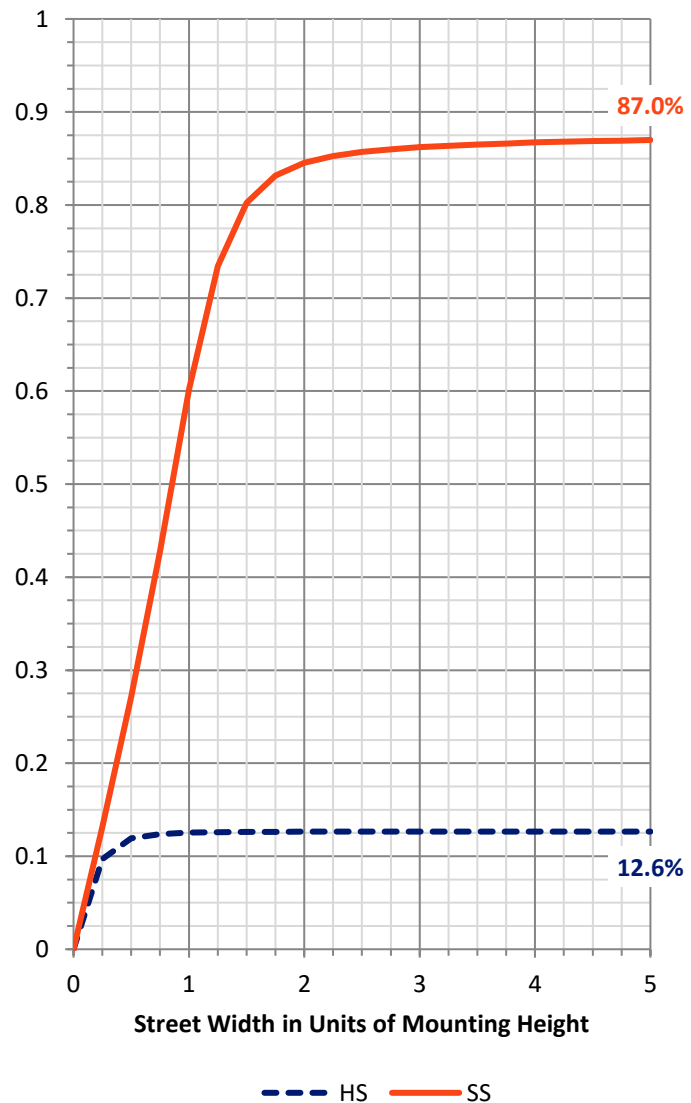
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2219.0	0.0	2219.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	15135.6	0.0	15135.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	17354.5	0.0	17354.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.2	1.2
10°-20°	561.8	3.2
20°-30°	943.6	5.4
30°-40°	1808.7	10.4
40°-50°	3694.3	21.3
50°-60°	4888.9	28.2
60°-70°	3797.9	21.9
70°-80°	1370.8	7.9
80°-90°	87.4	0.5
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°	17354.5	100.0
0°-180°	17354.5	100.0

Coefficient of Utilization



REPORT NUMBER: P265728

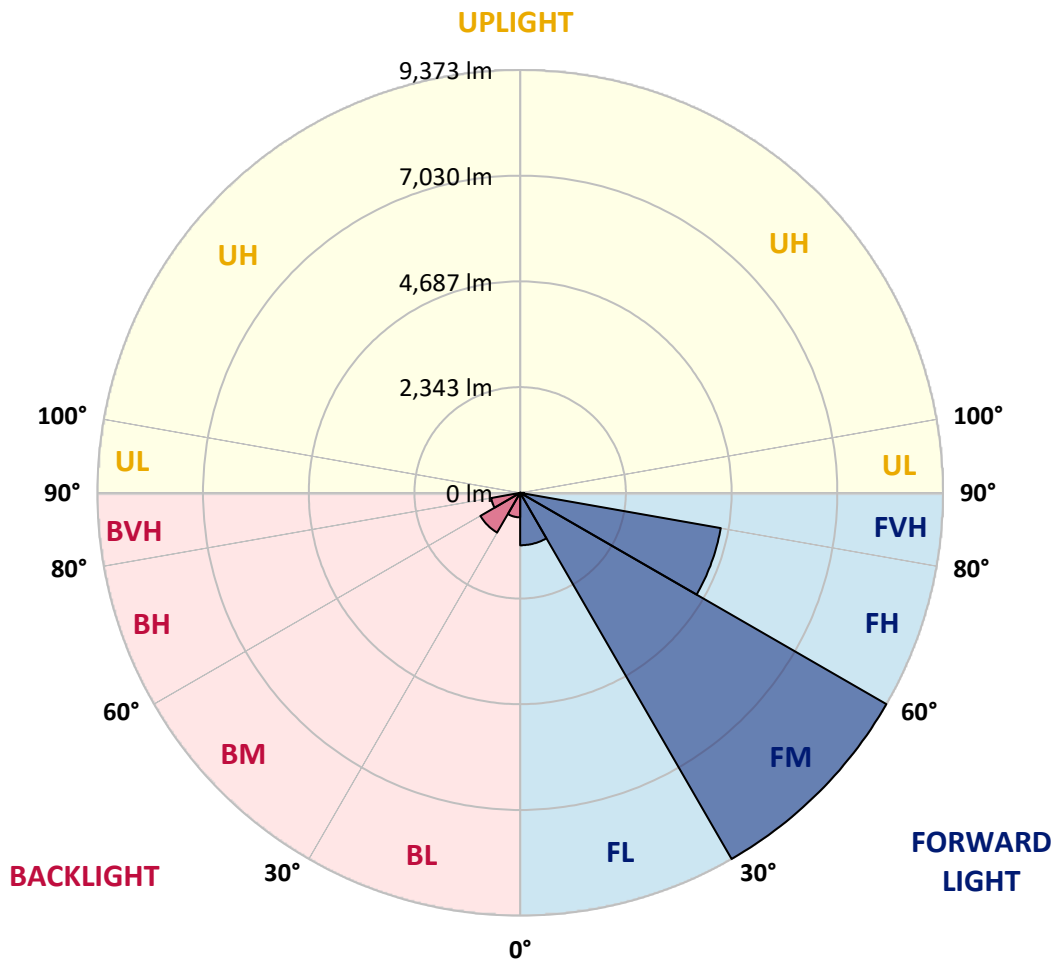
CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2U-7027-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1163.5	6.7			
FM	(30°-60°)	9373.2	54.0			
FH	(60°-80°)	4515.3	26.0			G2/5000
FVH	(80°-90°)	83.6	0.5			G1/100
BL	(0°-30°)	543.1	3.1	B2/1000		
BM	(30°-60°)	1018.7	5.9	B2/2500		
BH	(60°-80°)	653.4	3.8	B2/1000		G2/1000
BVH	(80°-90°)	3.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P265728

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2U-7027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	2090.5	2090.5	2090.5	2090.5	2090.5	2090.5	2090.5	2090.5	2090.5	2090.5	2090.5
2.5°	2146.1	2141.7	2137.4	2133.3	2133.3	2129.1	2124.8	2116.1	2107.7	2099.1	2094.8
5°	2184.5	2180.1	2176.0	2180.1	2176.0	2176.0	2171.7	2163.1	2154.6	2141.7	2129.1
7.5°	2214.3	2210.0	2205.8	2210.0	2214.3	2218.5	2222.9	2214.3	2210.0	2193.0	2180.1
10°	2252.7	2248.5	2244.1	2252.7	2252.7	2274.0	2278.3	2274.0	2269.7	2257.0	2235.6
12.5°	2308.1	2312.4	2312.4	2321.0	2329.6	2355.0	2363.6	2350.9	2350.9	2333.7	2308.1
15°	2410.6	2410.6	2410.6	2419.0	2423.4	2457.6	2466.0	2453.2	2461.7	2431.9	2406.3
17.5°	2508.6	2513.0	2521.5	2538.6	2538.6	2568.4	2585.5	2585.5	2602.6	2564.1	2530.0
20°	2606.8	2611.2	2623.9	2662.2	2662.2	2700.7	2730.6	2743.3	2760.4	2722.0	2662.2
22.5°	2713.5	2713.5	2734.8	2794.5	2781.7	2858.5	2914.0	2935.3	2952.4	2901.3	2807.4
25°	2875.7	2858.5	2875.7	2931.1	2922.5	3029.3	3131.6	3153.0	3174.3	3114.6	2973.7
27.5°	3182.9	3157.3	3097.4	3101.8	3101.8	3225.5	3370.5	3400.4	3413.2	3361.9	3187.0
30°	3797.1	3797.1	3575.3	3426.0	3328.0	3438.8	3643.5	3694.8	3711.8	3635.0	3404.7
32.5°	4868.1	4868.1	4458.5	4078.8	3707.6	3707.6	3942.2	4036.2	4053.2	3963.6	3694.8
35°	6233.3	6224.9	5610.5	5089.9	4364.7	4091.6	4292.1	4449.9	4501.1	4381.8	4070.2
37.5°	7683.9	7628.4	6967.2	6369.9	5375.7	4706.0	4765.7	4974.8	5021.6	4923.5	4556.7
40°	8861.5	8797.6	8264.1	7764.9	6681.4	5687.2	5448.3	5640.3	5695.8	5559.3	5136.9
42.5°	9928.2	9770.2	9403.4	9044.9	8183.1	7385.2	6357.0	6433.9	6493.6	6348.5	5789.7
45°	10700.4	10457.2	10269.5	10158.6	9702.1	9249.8	7534.7	7381.1	7402.4	7223.2	6502.1
47.5°	10721.7	10551.0	10568.1	10858.3	11046.0	11028.9	9066.4	8520.2	8439.1	8140.5	7261.5
50°	9697.7	9795.8	10107.3	10935.0	11950.4	12564.9	10888.0	9868.4	9625.2	9087.7	8016.7
52.5°	7991.1	8144.8	8729.3	10124.3	12082.7	13575.9	12778.1	11408.7	10973.4	10026.3	8597.0
55°	6258.9	6267.5	6881.8	8302.7	11199.6	13759.5	14288.5	13102.4	12436.9	10738.8	8981.0
57.5°	4304.9	4539.6	5320.3	6276.0	9207.1	12846.4	14855.9	14416.4	13558.8	11178.1	9249.8
60°	2820.1	2833.0	3741.7	4846.7	6267.5	10452.9	14510.3	15111.9	14467.7	11438.5	9433.2
62°	1988.2	2009.5	2572.7	3959.3	4723.0	7492.0	13746.7	15257.1	14979.6	11592.1	9625.2
62.5°	1843.1	1860.2	2333.7	3737.5	4437.2	6719.7	13473.6	15222.9	15056.4	11643.2	9693.5
65°	1352.5	1352.5	1527.4	2568.4	3251.1	3630.8	11417.2	14544.5	14954.1	12052.9	9949.4
67.5°	1045.3	1053.8	1113.5	1582.9	2453.2	2201.4	7287.2	13017.1	13887.4	12658.6	10094.6
70°	900.2	896.0	938.5	1049.6	1770.6	1463.3	3208.3	10158.6	11630.4	12505.0	9962.3
72.5°	665.6	669.9	768.1	921.7	1233.1	951.5	1450.7	5392.9	7543.2	9787.4	8537.2
75°	426.6	430.8	541.9	725.3	887.4	623.0	836.2	1608.4	3088.9	5427.0	5222.1
77.5°	285.8	294.4	354.1	507.7	776.6	388.2	524.8	674.1	930.0	2035.1	1873.0
80°	192.0	192.0	226.2	341.4	490.7	324.3	281.6	448.0	482.1	631.5	315.8
82.5°	128.0	128.0	149.3	226.2	319.9	290.2	170.7	243.3	281.6	315.8	110.9
85°	76.7	76.7	102.3	140.9	209.0	162.1	110.9	136.5	145.0	200.5	59.7
87.5°	46.9	42.7	68.4	98.2	110.9	98.2	72.6	72.6	76.7	110.9	29.9
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: P265728

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2U-7027-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2090.5	2090.5	2090.5	2090.5	2090.5	2090.5	2090.5	2090.5	2090.5	2090.5	2090.5
2.5°	2086.4	2082.0	2077.8	2069.2	2056.5	2048.0	2039.4	2030.9	2022.4	2022.4	2035.1
5°	2124.8	2111.9	2094.8	2077.8	2052.2	2035.1	2022.4	2005.2	1996.8	1996.8	2001.0
7.5°	2171.7	2158.8	2129.1	2099.1	2060.7	2030.9	2001.0	1962.5	1932.8	1919.9	1932.8
10°	2222.9	2205.8	2163.1	2116.1	2073.5	1996.8	1898.6	1779.2	1676.7	1629.9	1651.2
12.5°	2286.8	2265.5	2214.3	2150.4	2052.2	1864.4	1621.4	1344.0	1169.1	1087.9	1105.0
15°	2380.7	2350.9	2278.3	2180.1	1962.5	1557.3	1160.5	840.5	678.4	610.0	618.7
17.5°	2491.5	2453.2	2355.0	2171.7	1732.2	1122.2	691.2	490.7	422.5	405.3	405.3
20°	2611.2	2559.9	2431.9	2107.7	1382.3	704.0	430.8	375.4	349.9	337.0	337.0
22.5°	2734.8	2666.6	2495.9	1958.3	985.6	439.5	354.1	315.8	285.8	273.1	273.1
25°	2884.2	2794.5	2559.9	1698.1	627.1	354.1	302.9	264.6	234.6	217.6	221.8
27.5°	3059.1	2943.8	2615.3	1373.8	405.3	307.2	251.7	213.3	187.7	179.2	179.2
30°	3242.5	3106.0	2628.1	1028.2	328.5	264.6	209.0	174.9	157.8	149.3	149.3
32.5°	3494.2	3315.0	2589.8	682.6	277.3	221.8	174.9	145.0	132.3	128.0	128.0
35°	3827.0	3588.1	2500.2	422.5	234.6	183.4	145.0	128.0	115.3	110.9	110.9
37.5°	4249.4	3967.9	2342.3	290.2	200.5	149.3	123.7	110.9	102.3	98.2	98.2
40°	4812.6	4428.6	2137.4	251.7	170.7	128.0	106.7	98.2	89.7	89.7	89.7
42.5°	5410.0	4987.5	1873.0	221.8	145.0	110.9	93.9	85.2	81.0	76.7	76.7
45°	6062.8	5559.3	1544.5	196.3	123.7	98.2	85.2	72.6	68.4	68.4	68.4
47.5°	6711.1	6148.0	1186.1	170.7	106.7	85.2	72.6	64.0	59.7	55.4	55.4
50°	7376.8	6681.4	870.4	149.3	93.9	76.7	64.0	55.4	46.9	42.7	42.7
52.5°	7858.9	7001.3	635.7	128.0	81.0	64.0	51.3	42.7	34.1	29.9	29.9
55°	8213.1	7197.6	465.1	106.7	72.6	55.4	42.7	34.1	25.6	25.6	21.3
57.5°	8490.3	7291.5	349.9	93.9	64.0	46.9	34.1	25.6	21.3	17.1	17.1
60°	8703.7	7295.8	260.2	76.7	55.4	38.4	25.6	17.1	12.8	12.8	12.8
62°	8985.2	7351.2	213.3	64.0	51.3	34.1	21.3	12.8	8.5	4.2	4.2
62.5°	9066.4	7372.5	204.9	64.0	46.9	29.9	17.1	12.8	8.5	4.2	4.2
65°	9441.7	7410.8	157.8	51.3	38.4	25.6	12.8	8.5	0.0	0.0	0.0
67.5°	9783.1	7351.2	115.3	38.4	29.9	17.1	12.8	4.2	0.0	0.0	0.0
70°	9748.9	6941.7	81.0	25.6	21.3	12.8	8.5	0.0	0.0	0.0	0.0
72.5°	8033.8	5196.5	55.4	21.3	12.8	8.5	4.2	0.0	0.0	0.0	0.0
75°	4850.9	2274.0	38.4	12.8	12.8	8.5	4.2	0.0	0.0	0.0	0.0
77.5°	1591.3	823.4	25.6	8.5	8.5	4.2	4.2	0.0	0.0	0.0	0.0
80°	260.2	136.5	12.8	8.5	8.5	4.2	4.2	0.0	0.0	0.0	0.0
82.5°	81.0	34.1	8.5	8.5	4.2	4.2	0.0	0.0	0.0	0.0	0.0
85°	29.9	12.8	8.5	8.5	4.2	4.2	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	8.5	8.5	8.5	4.2	4.2	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	0.0	0.0	0.0	0.0

(END OF REPORT)