

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: P453521

Luminaire Tested: **GALN-SA4C-740-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20027 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

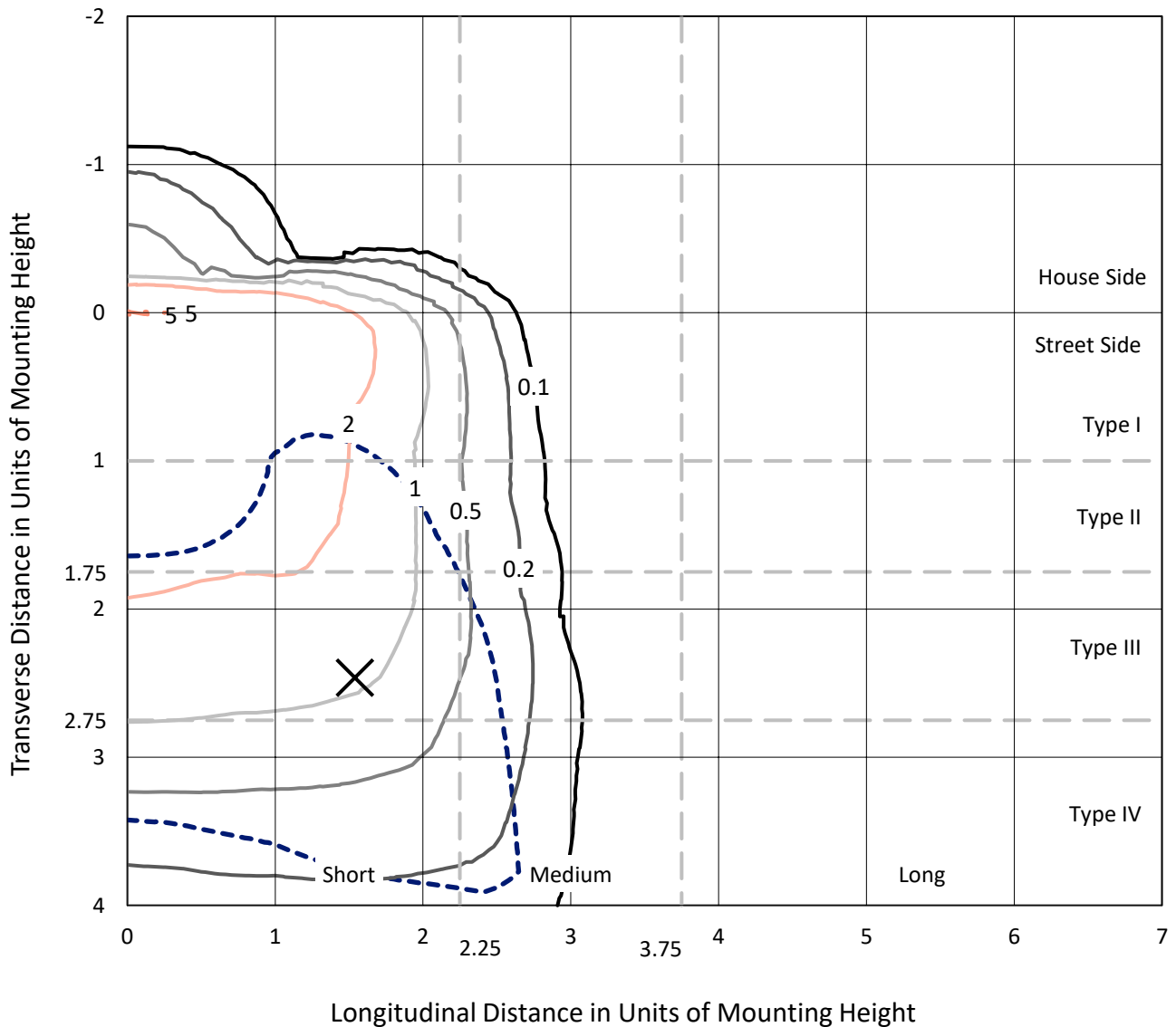
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453521
 CATALOG NUMBER: GALN-SA4C-740-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

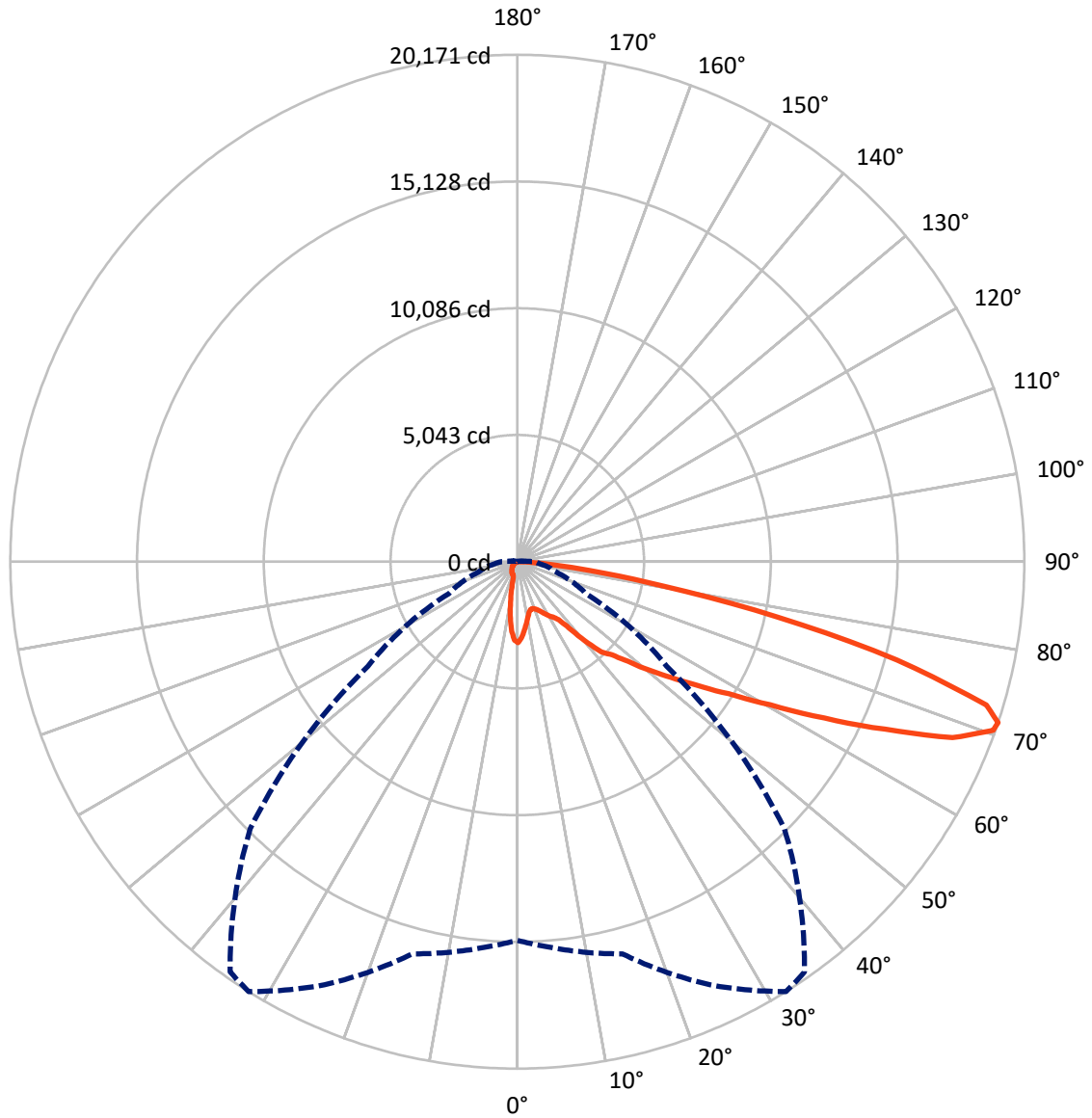
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P453521
CATALOG NUMBER: GALN-SA4C-740-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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 CATALOG NUMBER: GALN-SA4C-740-U-T4FT-HSS

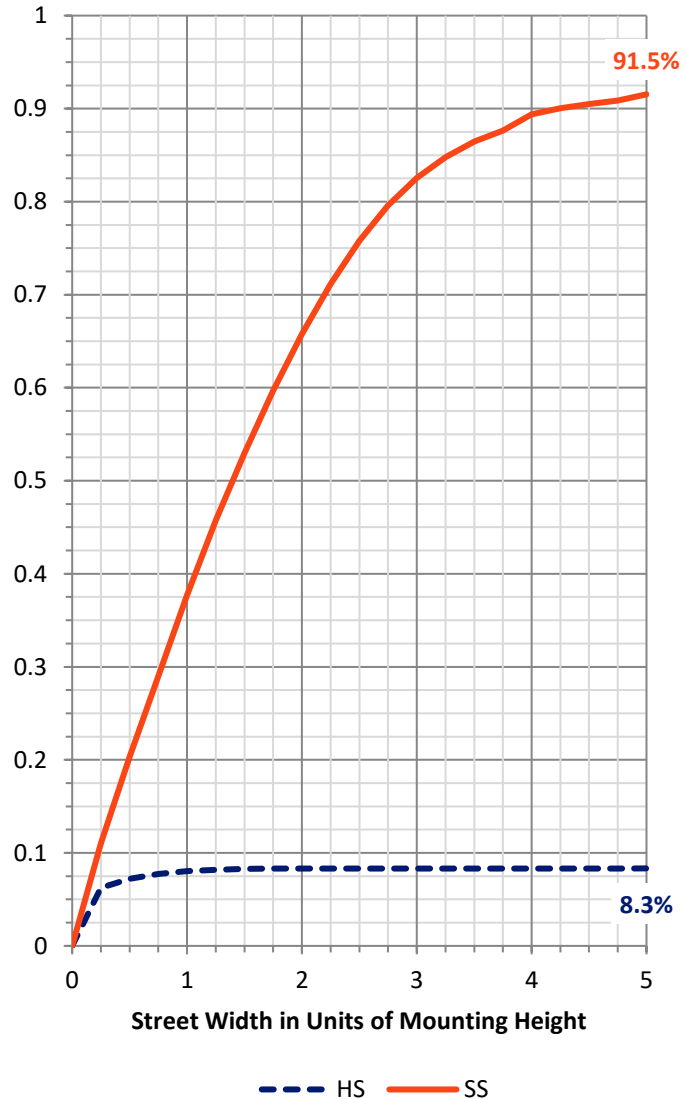
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1677.5	0.0	1677.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	18349.5	0.0	18349.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	20027.0	0.0	20027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.9	1.3
10°-20°	568.4	2.8
20°-30°	884.2	4.4
30°-40°	1473.1	7.4
40°-50°	2740.2	13.7
50°-60°	4399.5	22.0
60°-70°	5917.5	29.5
70°-80°	3510.9	17.5
80°-90°	271.4	1.4
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°	20027.0	100.0
0°-180°	20027.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453521

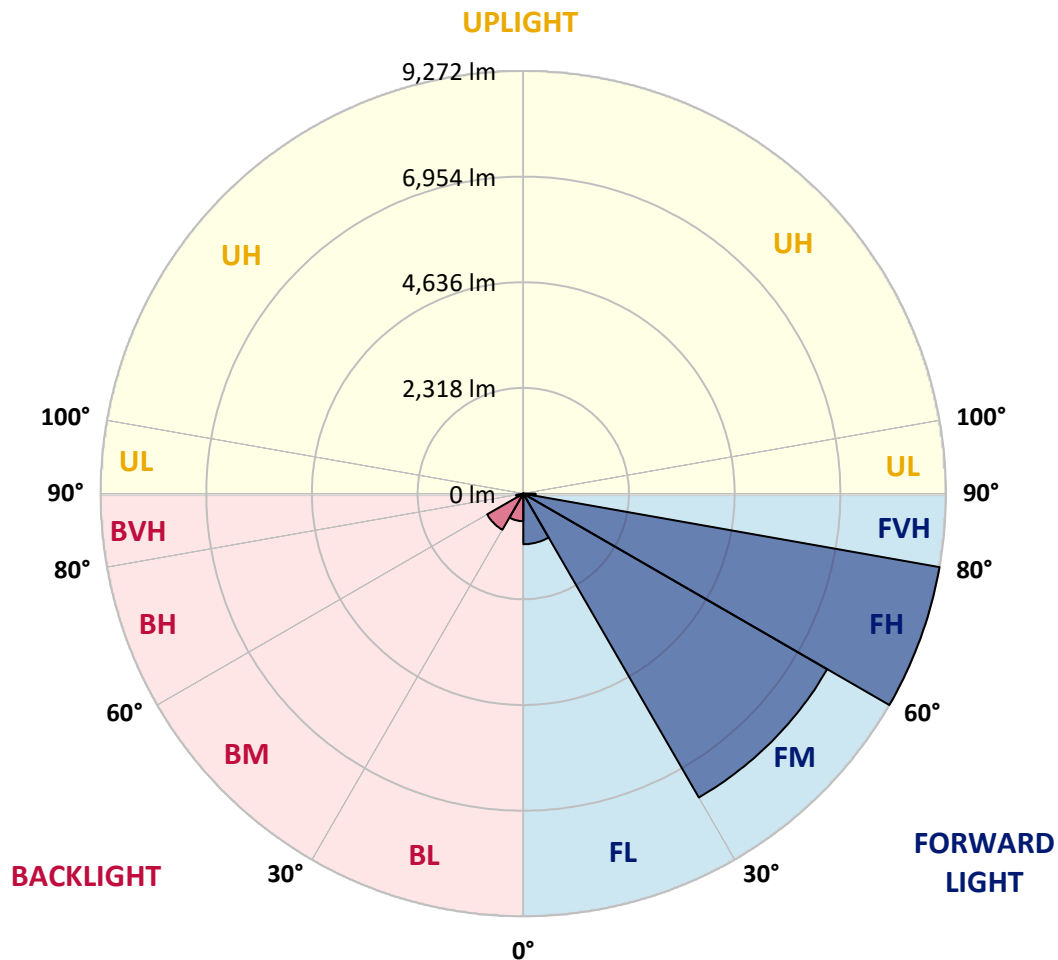
CATALOG NUMBER: GALN-SA4C-740-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1110.0	5.5			
FM	(30°-60°)	7697.6	38.4			
FH	(60°-80°)	9271.5	46.3			G4/12000
FVH	(80°-90°)	270.3	1.3			G3/500
BL	(0°-30°)	604.4	3.0	B2/1000		
BM	(30°-60°)	915.1	4.6	B1/1000		
BH	(60°-80°)	156.9	0.8	B1/500		G1/500
BVH	(80°-90°)	1.1	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-G4

Type IV Short





REPORT NUMBER: P453521

CATALOG NUMBER: GALN-SA4C-740-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3220.7	3220.7	3220.7	3220.7	3220.7	3220.7	3220.7	3220.7	3220.7	3220.7	3220.7
2.5°	2987.0	3017.7	3013.1	3023.9	3050.0	3060.8	3090.0	3122.3	3166.8	3197.6	3217.6
5°	2674.9	2698.0	2701.0	2754.9	2781.0	2810.2	2896.3	2990.1	3094.6	3177.6	3233.0
7.5°	2341.3	2353.6	2378.2	2448.9	2515.0	2544.2	2674.9	2837.9	3002.4	3157.6	3257.5
10°	2066.1	2080.0	2124.6	2199.9	2261.4	2299.8	2481.2	2685.7	2916.3	3146.9	3292.9
12.5°	1909.3	1917.0	1933.9	2001.6	2080.0	2121.5	2316.7	2550.4	2847.1	3151.5	3352.9
15°	1898.6	1895.5	1875.5	1903.2	1973.9	2016.9	2207.6	2458.2	2785.6	3166.8	3423.6
17.5°	1955.5	1947.8	1900.1	1900.1	1958.5	1993.9	2161.5	2409.0	2754.9	3202.2	3523.5
20°	2043.1	2030.8	1952.4	1946.2	2003.1	2040.0	2189.1	2412.0	2761.0	3268.3	3657.2
22.5°	2153.8	2139.9	2021.6	2024.6	2086.1	2123.0	2269.1	2467.4	2799.4	3349.8	3800.2
25°	2298.3	2282.9	2143.0	2136.9	2201.4	2233.7	2387.4	2565.8	2853.2	3451.3	3987.8
27.5°	2490.4	2458.2	2290.6	2281.4	2350.5	2392.0	2530.4	2698.0	2948.6	3591.1	4239.9
30°	2648.8	2613.4	2453.5	2428.9	2502.7	2535.0	2678.0	2876.3	3136.1	3835.6	4588.9
32.5°	2856.3	2804.0	2616.5	2551.9	2630.3	2671.8	2891.7	3208.4	3414.4	4093.8	5003.9
35°	3323.7	3291.4	3062.3	2836.3	2831.7	2884.0	3206.8	3543.5	3700.3	4496.6	5569.7
37.5°	3992.4	3969.3	3726.4	3423.6	3336.0	3311.4	3589.6	3912.4	4156.9	5050.0	6227.6
40°	4768.7	4714.9	4492.0	4235.3	4121.5	4049.3	4041.6	4461.3	4753.3	5801.8	6913.3
42.5°	5325.2	5226.8	4956.3	4937.8	4913.2	4837.9	4619.6	5263.7	5523.5	6610.4	7646.6
45°	5909.4	5760.3	5357.5	5288.3	5279.1	5274.5	5492.8	6213.8	6362.9	7486.7	8399.8
47.5°	6362.9	6244.5	5914.0	5883.3	5921.7	6026.2	6647.3	7222.3	7191.5	8267.6	9031.7
50°	6967.1	6877.9	6510.5	6568.9	6767.2	6937.9	7949.4	8321.4	7872.5	8882.5	9491.3
52.5°	7680.4	7515.9	7174.6	7332.9	7637.3	7921.7	9331.4	9283.8	8350.6	9345.3	9834.1
55°	8298.4	8181.5	8064.7	8229.2	8684.2	9039.4	10579.7	10004.8	8698.1	9717.3	9984.8
57.5°	9343.7	9316.1	9196.2	9363.7	9915.6	10284.6	11697.4	10564.4	8921.0	9911.0	9808.0
60°	10890.3	10845.7	10622.8	10836.5	11555.9	12135.5	12727.3	11067.1	8971.7	9835.7	9299.2
62.5°	12750.4	12598.2	12407.6	12722.7	13709.7	13964.9	13697.4	11365.3	8782.6	9236.1	8072.4
65°	14487.6	14330.8	14335.4	14999.5	16074.1	16247.8	14828.8	11320.7	8229.2	7734.2	5954.0
67.5°	15817.3	15791.2	15978.8	17274.7	18679.8	18559.9	15840.4	10653.5	6588.9	5013.2	3163.8
70°	15885.0	15935.7	16473.8	18661.3	20088.0	19897.3	15754.3	8659.6	4107.7	2306.0	1246.8
71°	15067.1	15408.4	16152.5	18618.3	20171.0	19923.5	15028.7	7253.0	3013.1	1608.0	899.3
72.5°	12839.6	13019.4	14627.5	17522.2	19514.6	18985.7	13188.5	5083.9	1929.3	983.9	516.5
75°	7071.6	7514.3	9795.7	13746.6	15608.3	15144.0	8595.1	2415.1	962.4	538.1	213.7
77.5°	3366.7	3280.6	4779.5	8175.4	10582.8	10558.2	4330.6	1073.0	561.1	364.3	107.6
80°	962.4	1082.3	1829.4	3886.3	5875.6	5940.1	1663.4	518.1	388.9	284.4	55.3
82.5°	290.6	296.7	671.8	1718.7	2922.4	2754.9	624.1	264.4	279.8	226.0	32.3
85°	50.7	63.0	198.3	605.7	1114.5	845.5	156.8	126.1	184.5	149.1	18.4
87.5°	3.1	4.6	66.1	69.2	98.4	56.9	27.7	18.4	40.0	40.0	10.8
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: P453521

CATALOG NUMBER: GALN-SA4C-740-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3220.7	3220.7	3220.7	3220.7	3220.7	3220.7	3220.7	3220.7	3220.7	3220.7	3220.7
2.5°	3231.4	3240.6	3234.5	3220.7	3197.6	3169.9	3133.0	3102.3	3076.1	3062.3	3079.2
5°	3251.4	3263.7	3233.0	3163.8	3059.2	2945.5	2816.3	2716.4	2638.0	2613.4	2604.2
7.5°	3282.1	3289.8	3206.8	3053.1	2831.7	2562.7	2327.5	2129.2	1975.4	1929.3	1861.7
10°	3322.1	3317.5	3160.7	2874.8	2485.8	2081.5	1717.2	1446.6	1242.1	1168.4	1162.2
12.5°	3383.6	3359.0	3102.3	2631.9	2073.8	1545.0	1094.6	856.3	727.1	684.1	674.9
15°	3460.5	3402.1	3010.0	2347.5	1588.0	997.7	674.9	602.6	585.7	582.6	579.6
17.5°	3551.2	3458.9	2888.6	1998.5	1116.1	647.2	564.2	562.7	564.2	561.1	559.6
20°	3674.2	3518.9	2744.1	1585.0	737.9	545.7	538.1	538.1	539.6	538.1	538.1
22.5°	3804.8	3589.6	2565.8	1209.9	556.5	518.1	516.5	519.6	522.7	521.1	521.1
25°	3966.2	3681.8	2330.6	828.6	498.1	495.0	496.5	502.7	508.8	510.4	508.8
27.5°	4199.9	3795.6	2078.4	570.3	456.6	459.7	475.0	490.4	499.6	501.2	501.2
30°	4462.8	3921.7	1749.5	462.7	422.8	422.8	441.2	470.4	490.4	493.5	495.0
32.5°	4801.0	4067.7	1385.1	416.6	390.5	387.4	404.3	439.7	476.6	487.3	487.3
35°	5219.2	4239.9	1030.0	387.4	367.4	359.7	369.0	398.2	445.8	476.6	479.6
37.5°	5709.6	4402.8	753.3	361.3	345.9	335.1	341.3	364.3	402.8	448.9	461.2
40°	6163.1	4547.3	562.7	339.7	324.4	316.7	321.3	332.1	364.3	407.4	415.1
42.5°	6658.1	4659.6	447.4	316.7	302.8	299.8	299.8	304.4	325.9	350.5	352.0
45°	7151.5	4699.5	375.1	289.0	279.8	282.9	281.3	278.3	287.5	284.4	284.4
47.5°	7503.6	4651.9	310.5	262.9	262.9	267.5	259.8	249.0	244.4	226.0	227.5
50°	7744.9	4478.2	255.2	232.1	244.4	250.6	235.2	218.3	201.4	181.4	176.8
52.5°	7844.9	4169.2	209.1	192.2	216.8	224.4	206.0	186.0	159.9	143.0	138.4
55°	7780.3	3787.9	173.7	156.8	182.9	192.2	173.7	150.7	121.4	103.0	99.9
57.5°	7495.9	3332.9	147.6	124.5	146.0	152.2	139.9	115.3	86.1	67.6	67.6
60°	7004.0	2862.5	119.9	98.4	109.1	118.4	106.1	83.0	58.4	41.5	38.4
62.5°	6006.3	2324.4	96.9	76.9	76.9	84.6	73.8	60.0	36.9	21.5	20.0
65°	4336.7	1594.2	76.9	56.9	55.3	55.3	46.1	40.0	21.5	9.2	6.1
67.5°	2356.7	899.3	61.5	43.0	38.4	36.9	29.2	23.1	9.2	1.5	0.0
70°	927.0	345.9	47.7	29.2	24.6	23.1	15.4	10.8	6.1	0.0	0.0
71°	628.8	238.3	41.5	24.6	20.0	16.9	12.3	9.2	4.6	0.0	0.0
72.5°	359.7	147.6	32.3	18.4	15.4	12.3	9.2	6.1	4.6	0.0	0.0
75°	156.8	75.3	20.0	13.8	10.8	7.7	6.1	4.6	1.5	0.0	0.0
77.5°	79.9	41.5	13.8	10.8	6.1	4.6	3.1	1.5	0.0	0.0	0.0
80°	44.6	21.5	9.2	6.1	4.6	3.1	1.5	1.5	0.0	0.0	0.0
82.5°	24.6	12.3	4.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.4	7.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	3.1	0.0	0.0	0.0	0.0	1.5	1.5	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)