

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: P456508

Luminaire Tested: **GALN-SA7D-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456508
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-SA7D-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA 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: 35336 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

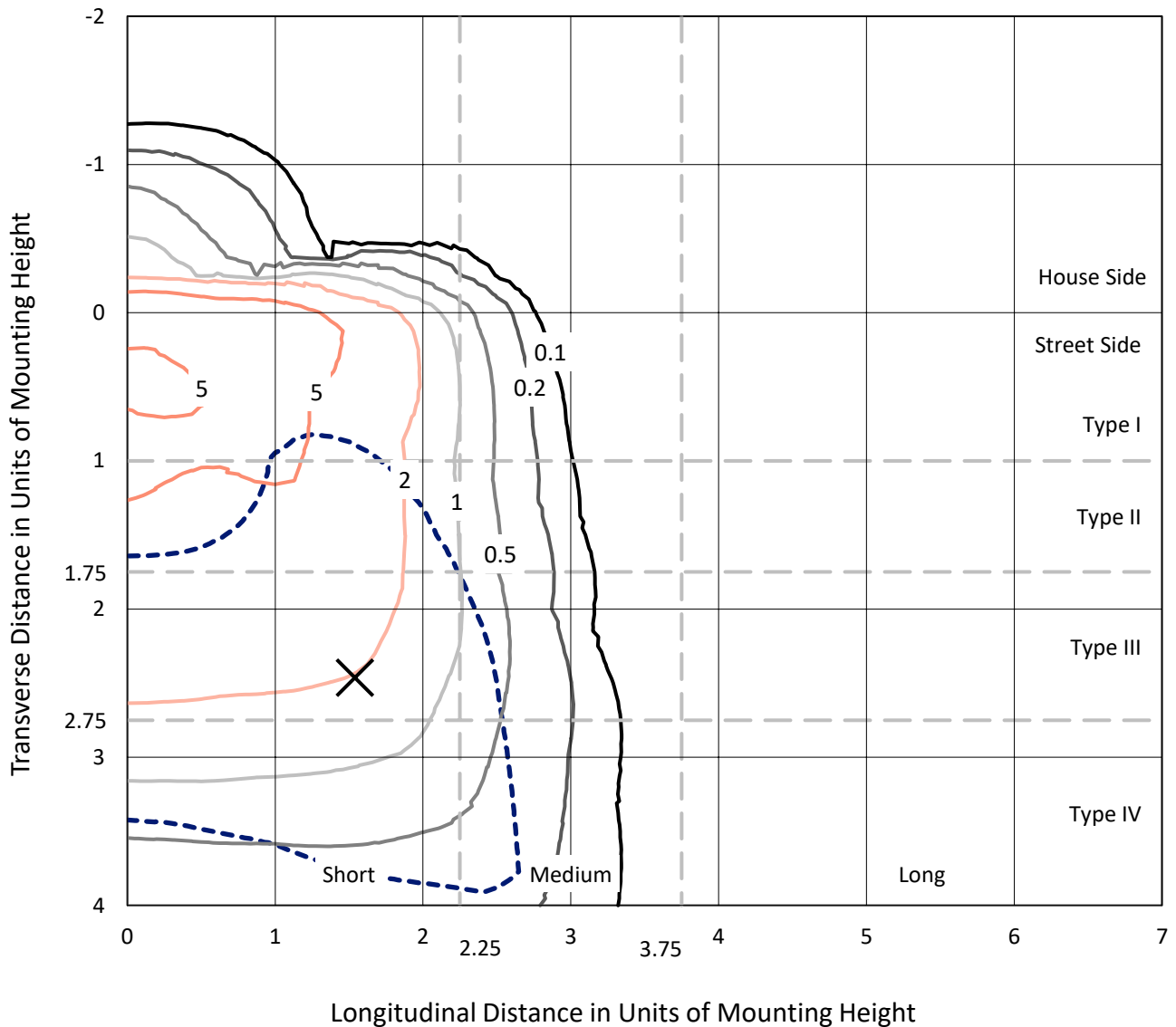
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

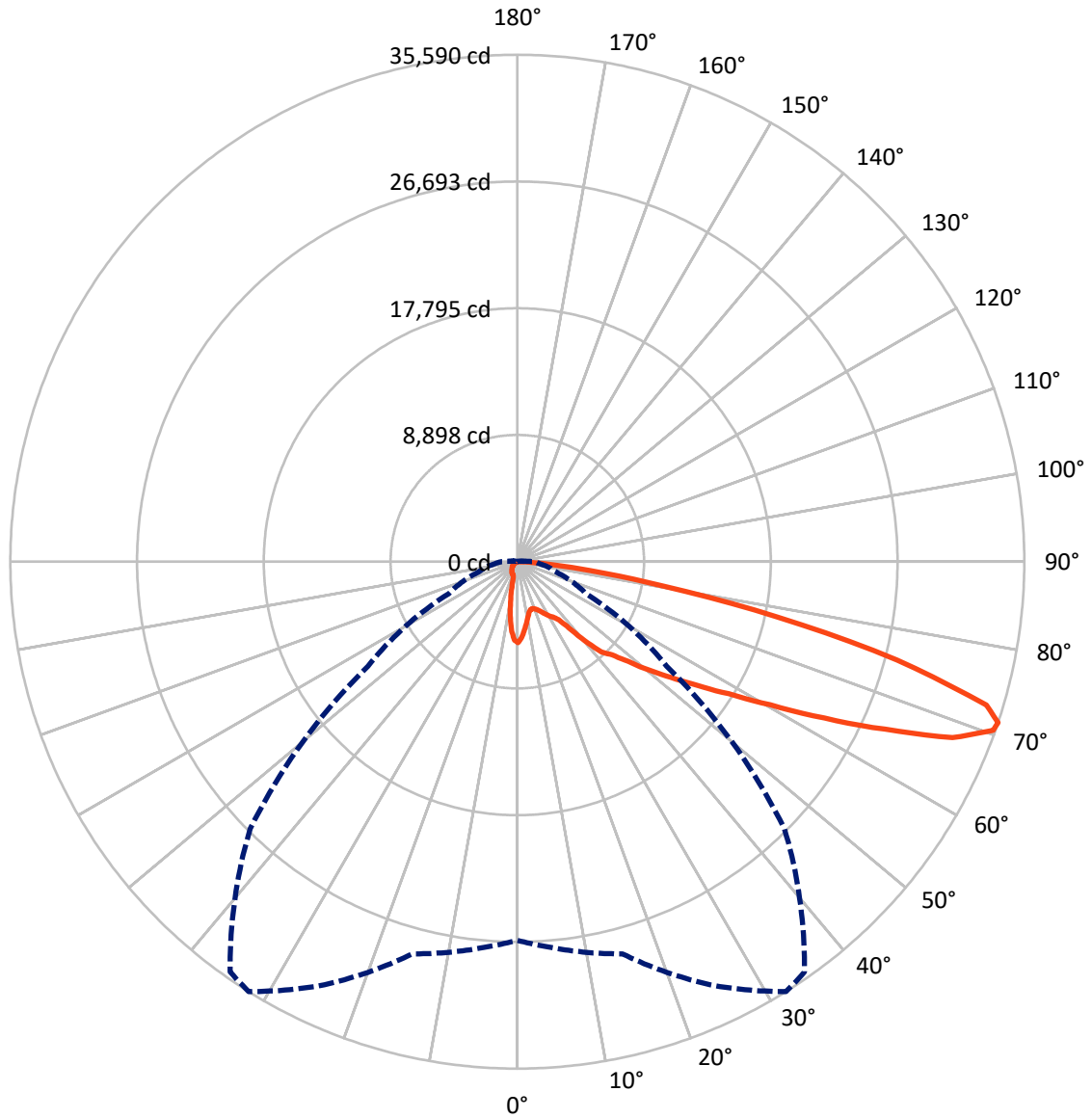
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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



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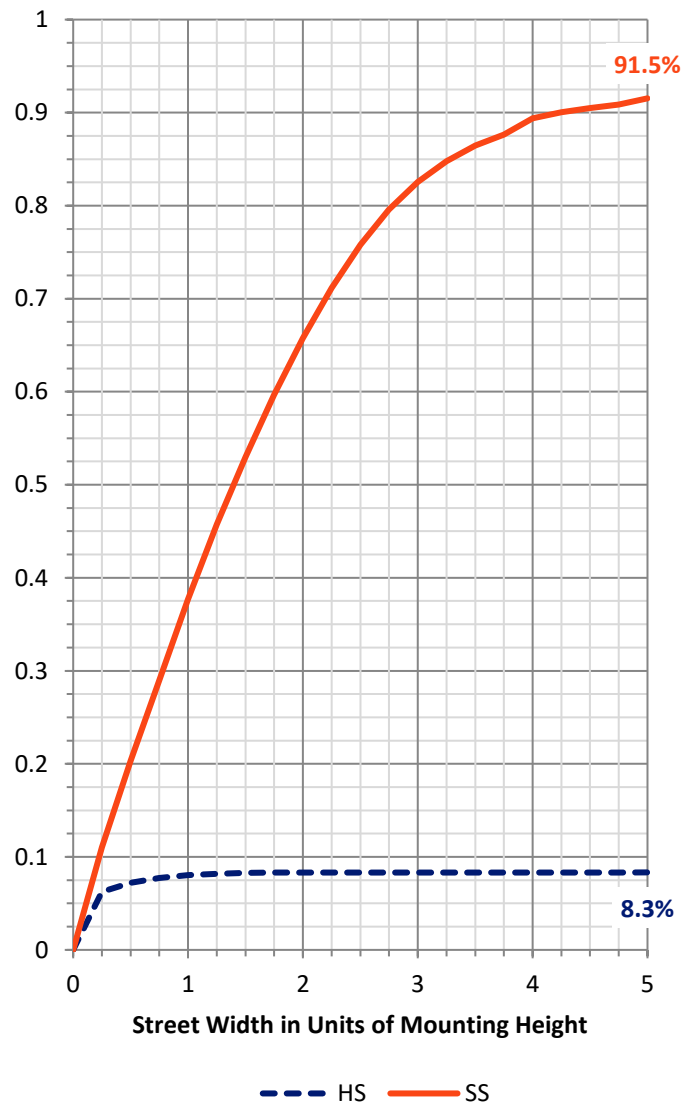
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2959.8	0.0	2959.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	32376.2	0.0	32376.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	35336.0	0.0	35336.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.1	1.3
10°-20°	1002.9	2.8
20°-30°	1560.1	4.4
30°-40°	2599.1	7.4
40°-50°	4834.8	13.7
50°-60°	7762.5	22.0
60°-70°	10440.9	29.5
70°-80°	6194.7	17.5
80°-90°	478.8	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°	35336.0	100.0
0°-180°	35336.0	100.0



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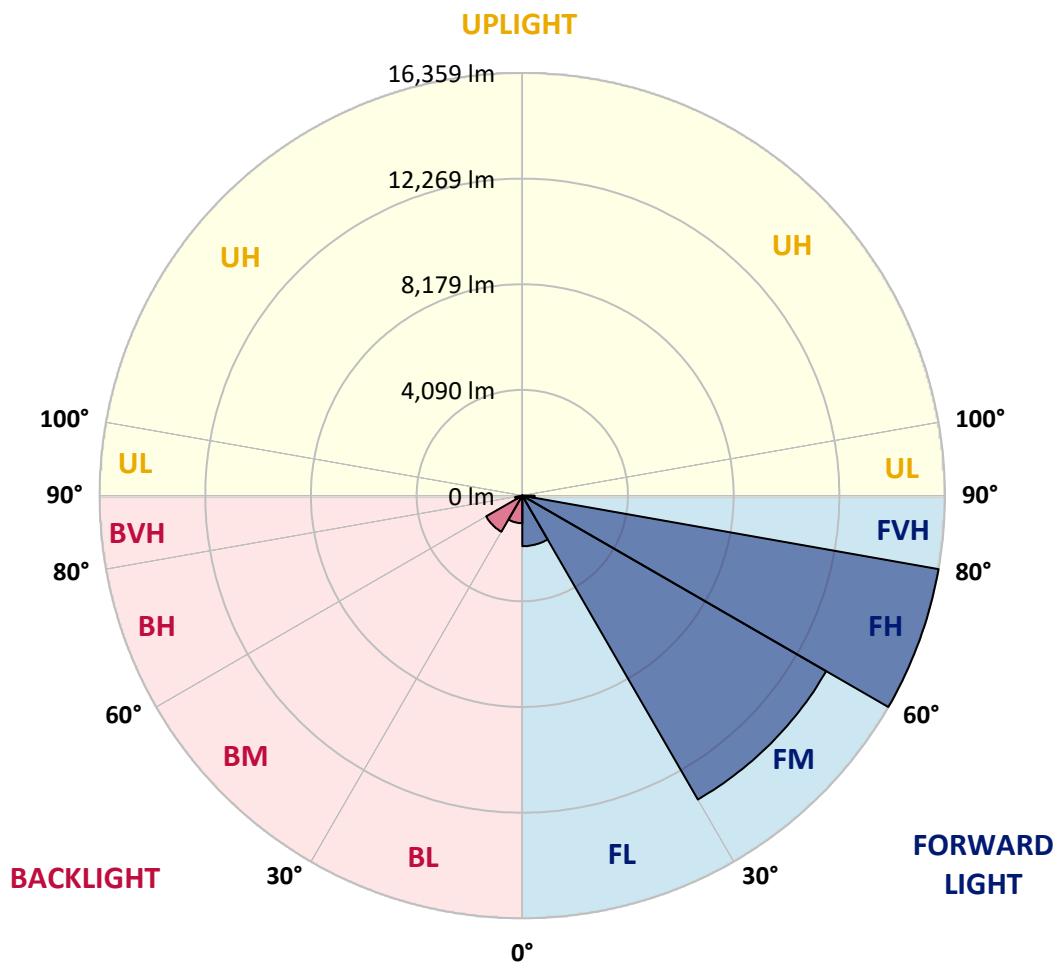
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1958.6	5.5			
FM	(30°-60°)	13581.9	38.4			
FH	(60°-80°)	16358.9	46.3			G5
FVH	(80°-90°)	477.0	1.3			G3/500
BL	(0°-30°)	1066.5	3.0	B3/2500		
BM	(30°-60°)	1614.6	4.6	B2/2500		
BH	(60°-80°)	276.8	0.8	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5682.6	5682.6	5682.6	5682.6	5682.6	5682.6	5682.6	5682.6	5682.6	5682.6	5682.6
2.5°	5270.3	5324.5	5316.4	5335.4	5381.5	5400.5	5452.0	5509.0	5587.6	5641.9	5677.2
5°	4719.7	4760.3	4765.8	4860.7	4906.8	4958.4	5110.3	5275.7	5460.2	5606.6	5704.3
7.5°	4131.1	4152.8	4196.2	4320.9	4437.6	4489.1	4719.7	5007.2	5297.4	5571.4	5747.7
10°	3645.5	3669.9	3748.6	3881.5	3990.0	4057.8	4377.9	4738.6	5145.5	5552.4	5810.1
12.5°	3368.9	3382.4	3412.3	3531.6	3669.9	3743.2	4087.7	4500.0	5023.5	5560.5	5915.9
15°	3349.9	3344.4	3309.2	3358.0	3482.8	3558.7	3895.1	4337.2	4915.0	5587.6	6040.6
17.5°	3450.2	3436.7	3352.6	3352.6	3455.7	3518.0	3813.7	4250.4	4860.7	5650.0	6216.9
20°	3604.8	3583.1	3444.8	3434.0	3534.3	3599.4	3862.5	4255.8	4871.6	5766.7	6452.9
22.5°	3800.1	3775.7	3566.9	3572.3	3680.8	3745.9	4003.6	4353.5	4939.4	5910.4	6705.2
25°	4055.1	4028.0	3781.2	3770.3	3884.2	3941.2	4212.4	4527.1	5034.3	6089.4	7036.1
27.5°	4394.2	4337.2	4041.5	4025.3	4147.3	4220.6	4464.7	4760.3	5202.5	6336.3	7480.9
30°	4673.5	4611.2	4329.1	4285.7	4415.9	4472.8	4725.1	5075.0	5533.4	6767.6	8096.7
32.5°	5039.7	4947.5	4616.6	4502.7	4641.0	4714.2	5102.1	5660.9	6024.3	7223.3	8829.0
35°	5864.3	5807.4	5403.2	5004.5	4996.3	5088.6	5658.2	6252.2	6528.9	7933.9	9827.2
37.5°	7044.2	7003.5	6575.0	6040.6	5886.0	5842.6	6333.6	6903.2	7334.5	8910.4	10988.1
40°	8414.0	8319.1	7925.8	7472.8	7272.1	7144.6	7131.0	7871.5	8386.9	10236.8	12197.9
42.5°	9395.9	9222.3	8744.9	8712.4	8669.0	8536.1	8150.9	9287.4	9745.8	11663.5	13491.7
45°	10426.7	10163.5	9452.9	9330.8	9314.6	9306.4	9691.6	10963.7	11226.8	13209.6	14820.8
47.5°	11226.8	11018.0	10434.8	10380.5	10448.4	10632.8	11728.6	12743.1	12688.8	14587.6	15935.6
50°	12292.8	12135.5	11487.2	11590.3	11940.2	12241.3	14026.1	14682.5	13890.5	15672.5	16746.7
52.5°	13551.4	13261.2	12659.0	12938.4	13475.4	13977.2	16464.6	16380.5	14734.0	16489.0	17351.5
55°	14641.8	14435.7	14229.5	14519.7	15322.6	15949.2	18667.1	17652.6	15347.0	17145.4	17617.4
57.5°	16486.3	16437.4	16225.9	16521.5	17495.3	18146.3	20639.0	18639.9	15740.3	17487.2	17305.4
60°	19215.0	19136.3	18743.0	19120.1	20389.5	21412.1	22456.4	19526.9	15829.9	17354.2	16407.6
62.5°	22497.1	22228.5	21892.2	22448.2	24189.6	24639.9	24167.9	20053.1	15496.2	16296.4	14243.1
65°	25562.1	25285.4	25293.6	26465.4	28361.4	28667.9	26164.3	19974.5	14519.7	13646.3	10505.3
67.5°	27908.4	27862.3	28193.2	30479.8	32959.0	32747.4	27949.1	18797.3	11625.6	8845.3	5582.2
70°	28027.7	28117.2	29066.6	32926.4	35443.6	35107.2	27797.2	15279.2	7247.7	4068.7	2199.8
71°	26584.7	27186.9	28499.7	32850.5	35590.0	35153.3	26516.9	12797.3	5316.4	2837.2	1586.8
72.5°	22654.4	22971.7	25809.0	30916.5	34431.8	33498.7	23270.1	8970.1	3404.1	1736.0	911.4
75°	12477.3	13258.5	17283.7	24254.7	27539.5	26720.3	15165.3	4261.3	1698.0	949.4	377.0
77.5°	5940.3	5788.4	8433.0	14424.8	18672.5	18629.1	7641.0	1893.3	990.0	642.9	189.9
80°	1698.0	1909.6	3227.8	6857.1	10367.0	10480.9	2934.9	914.1	686.2	501.8	97.6
82.5°	512.7	523.5	1185.3	3032.5	5156.4	4860.7	1101.3	466.5	493.7	398.7	57.0
85°	89.5	111.2	349.9	1068.7	1966.5	1491.8	276.7	222.4	325.5	263.1	32.5
87.5°	5.4	8.1	116.6	122.1	173.6	100.4	48.8	32.5	70.5	70.5	19.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5682.6	5682.6	5682.6	5682.6	5682.6	5682.6	5682.6	5682.6	5682.6	5682.6	5682.6
2.5°	5701.6	5717.8	5707.0	5682.6	5641.9	5593.1	5528.0	5473.7	5427.6	5403.2	5433.0
5°	5736.8	5758.5	5704.3	5582.2	5397.8	5197.1	4969.2	4792.9	4654.6	4611.2	4594.9
7.5°	5791.1	5804.6	5658.2	5386.9	4996.3	4521.7	4106.6	3756.7	3485.5	3404.1	3284.8
10°	5861.6	5853.5	5576.8	5072.3	4386.0	3672.7	3029.8	2552.4	2191.7	2061.5	2050.6
12.5°	5970.1	5926.7	5473.7	4643.7	3659.1	2726.0	1931.3	1510.8	1283.0	1207.0	1190.8
15°	6105.7	6002.6	5311.0	4141.9	2802.0	1760.4	1190.8	1063.3	1033.4	1028.0	1022.6
17.5°	6265.8	6103.0	5096.7	3526.2	1969.2	1141.9	995.5	992.8	995.5	990.0	987.3
20°	6482.8	6208.8	4841.7	2796.5	1302.0	962.9	949.4	949.4	952.1	949.4	949.4
22.5°	6713.3	6333.6	4527.1	2134.7	981.9	914.1	911.4	916.8	922.2	919.5	919.5
25°	6998.1	6496.3	4112.1	1462.0	878.8	873.4	876.1	887.0	897.8	900.5	897.8
27.5°	7410.4	6697.0	3667.2	1006.3	805.6	811.0	838.1	865.3	881.5	884.3	884.3
30°	7874.2	6919.5	3086.8	816.4	745.9	745.9	778.5	830.0	865.3	870.7	873.4
32.5°	8471.0	7177.1	2443.9	735.1	689.0	683.5	713.4	775.8	840.9	859.8	859.8
35°	9208.8	7480.9	1817.3	683.5	648.3	634.7	651.0	702.5	786.6	840.9	846.3
37.5°	10074.0	7768.5	1329.1	637.4	610.3	591.3	602.2	642.9	710.7	792.0	813.7
40°	10874.2	8023.4	992.8	599.5	572.3	558.8	566.9	585.9	642.9	718.8	732.4
42.5°	11747.6	8221.4	789.3	558.8	534.4	528.9	528.9	537.1	575.0	618.4	621.2
45°	12618.3	8292.0	661.8	509.9	493.7	499.1	496.4	491.0	507.2	501.8	501.8
47.5°	13239.5	8207.9	547.9	463.8	463.8	472.0	458.4	439.4	431.3	398.7	401.4
50°	13665.3	7901.4	450.3	409.6	431.3	442.1	415.0	385.2	355.3	320.1	311.9
52.5°	13841.6	7356.2	368.9	339.1	382.5	396.0	363.5	328.2	282.1	252.3	244.1
55°	13727.7	6683.5	306.5	276.7	322.8	339.1	306.5	265.8	214.3	181.7	176.3
57.5°	13225.9	5880.6	260.4	219.7	257.7	268.5	246.8	203.4	151.9	119.3	119.3
60°	12357.9	5050.6	211.6	173.6	192.6	208.9	187.2	146.5	103.1	73.2	67.8
62.5°	10597.5	4101.2	170.9	135.6	135.6	149.2	130.2	105.8	65.1	38.0	35.3
65°	7651.8	2812.8	135.6	100.4	97.6	97.6	81.4	70.5	38.0	16.3	10.8
67.5°	4158.2	1586.8	108.5	75.9	67.8	65.1	51.5	40.7	16.3	2.7	0.0
70°	1635.6	610.3	84.1	51.5	43.4	40.7	27.1	19.0	10.8	0.0	0.0
71°	1109.4	420.4	73.2	43.4	35.3	29.8	21.7	16.3	8.1	0.0	0.0
72.5°	634.7	260.4	57.0	32.5	27.1	21.7	16.3	10.8	8.1	0.0	0.0
75°	276.7	132.9	35.3	24.4	19.0	13.6	10.8	8.1	2.7	0.0	0.0
77.5°	141.0	73.2	24.4	19.0	10.8	8.1	5.4	2.7	0.0	0.0	0.0
80°	78.7	38.0	16.3	10.8	8.1	5.4	2.7	2.7	0.0	0.0	0.0
82.5°	43.4	21.7	8.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.1	13.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	5.4	0.0	0.0	0.0	0.0	2.7	2.7	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)