

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: P957363

Luminaire Tested: **GALN-SB9D-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71574 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 658
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

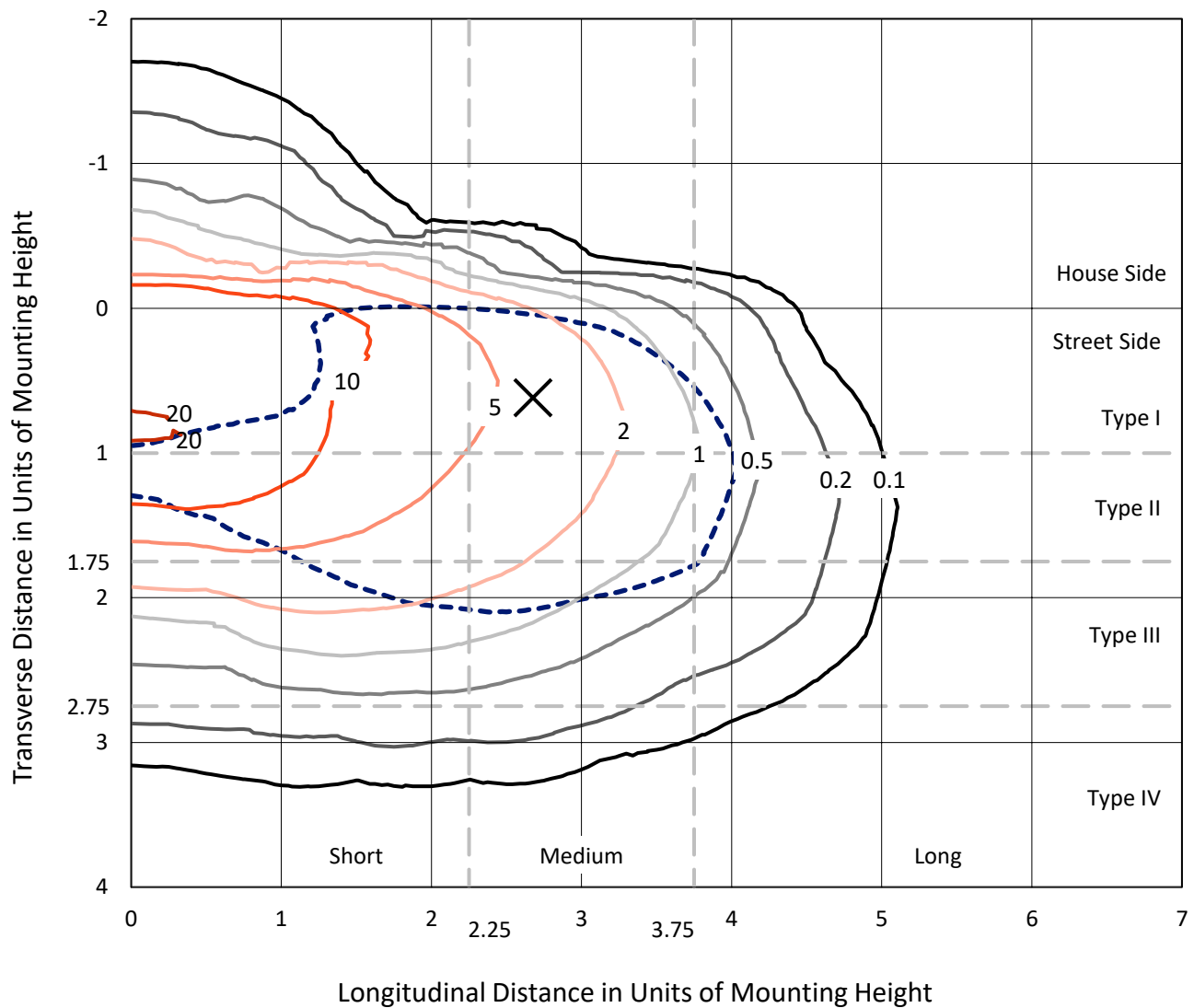


REPORT NUMBER: P957363

CATALOG NUMBER: GALN-SB9D-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

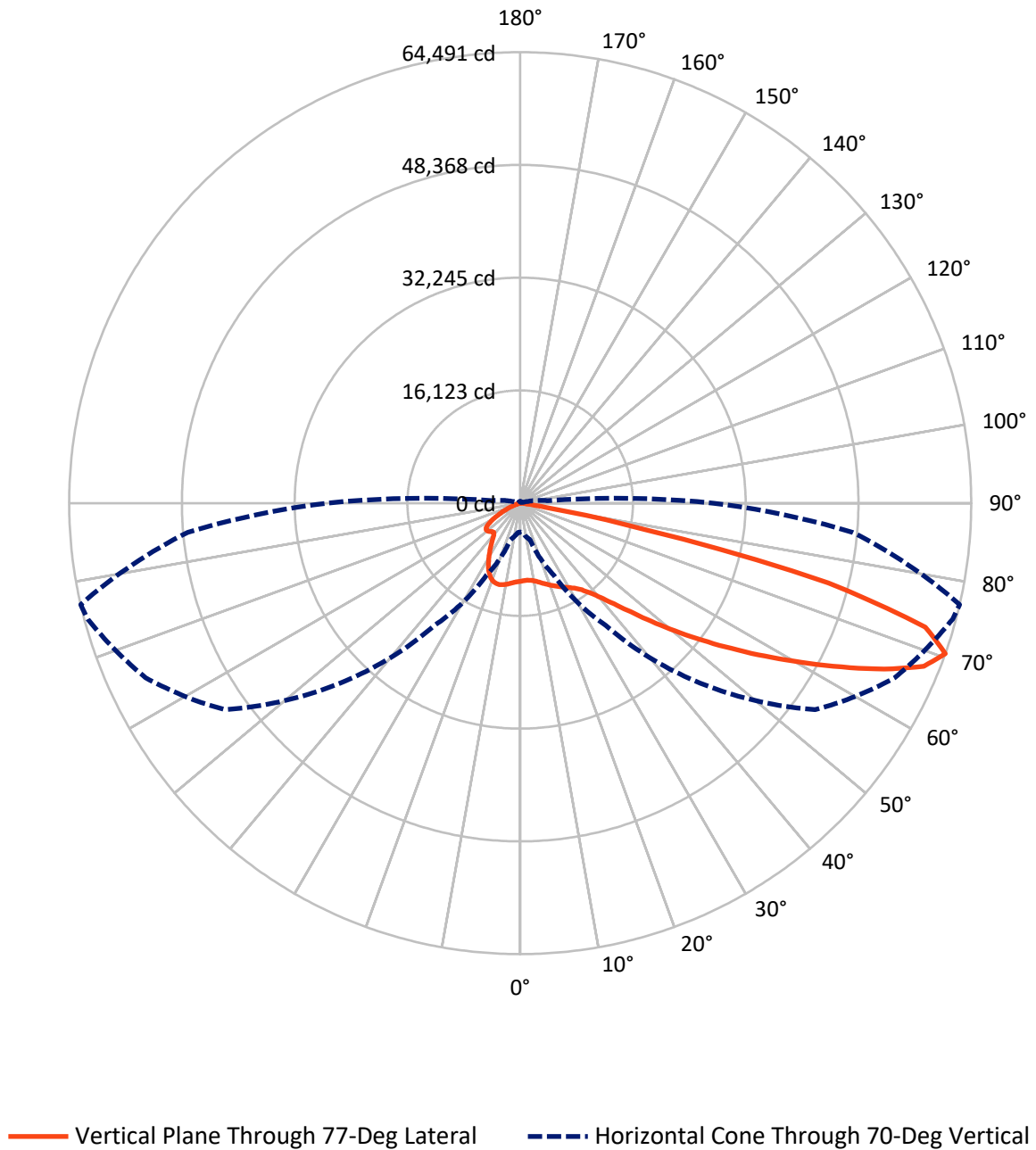


Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type III - Medium - N/A

REPORT NUMBER: P957363

CATALOG NUMBER: GALN-SB9D-727-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P957363

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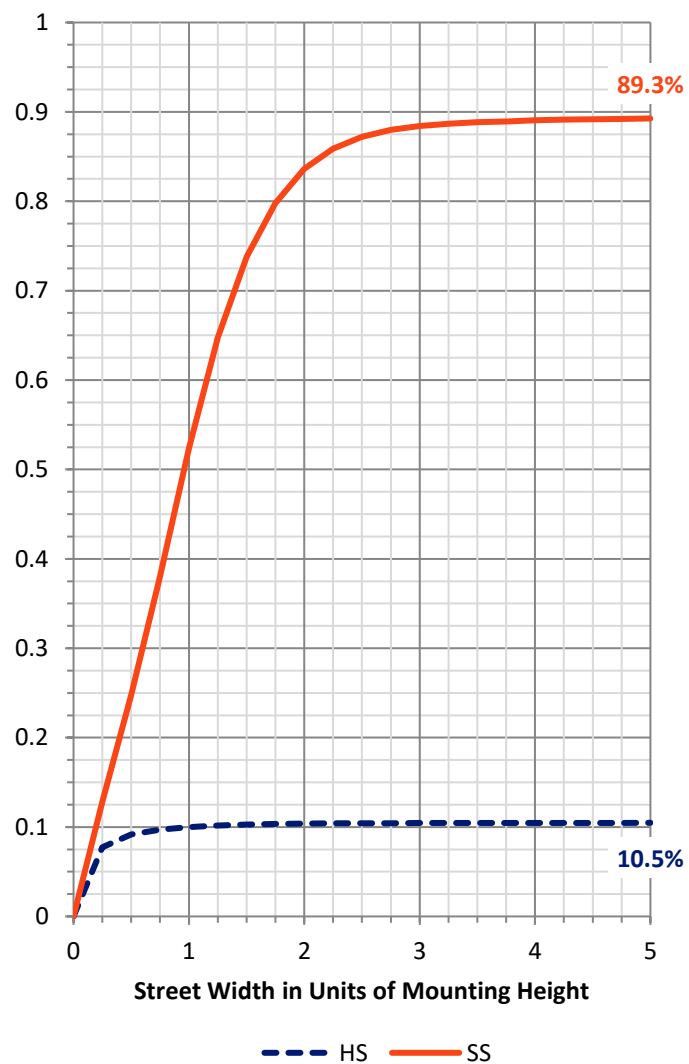
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7544.9	0.0	7544.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	64029.1	0.0	64029.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	71574.0	0.0	71574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	962.2	1.3
10°-20°	2284.1	3.2
20°-30°	3532.9	4.9
30°-40°	6410.6	9.0
40°-50°	12100.8	16.9
50°-60°	17484.6	24.4
60°-70°	18611.9	26.0
70°-80°	9863.0	13.8
80°-90°	323.9	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°	71574.0	100.0
0°-180°	71574.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957363

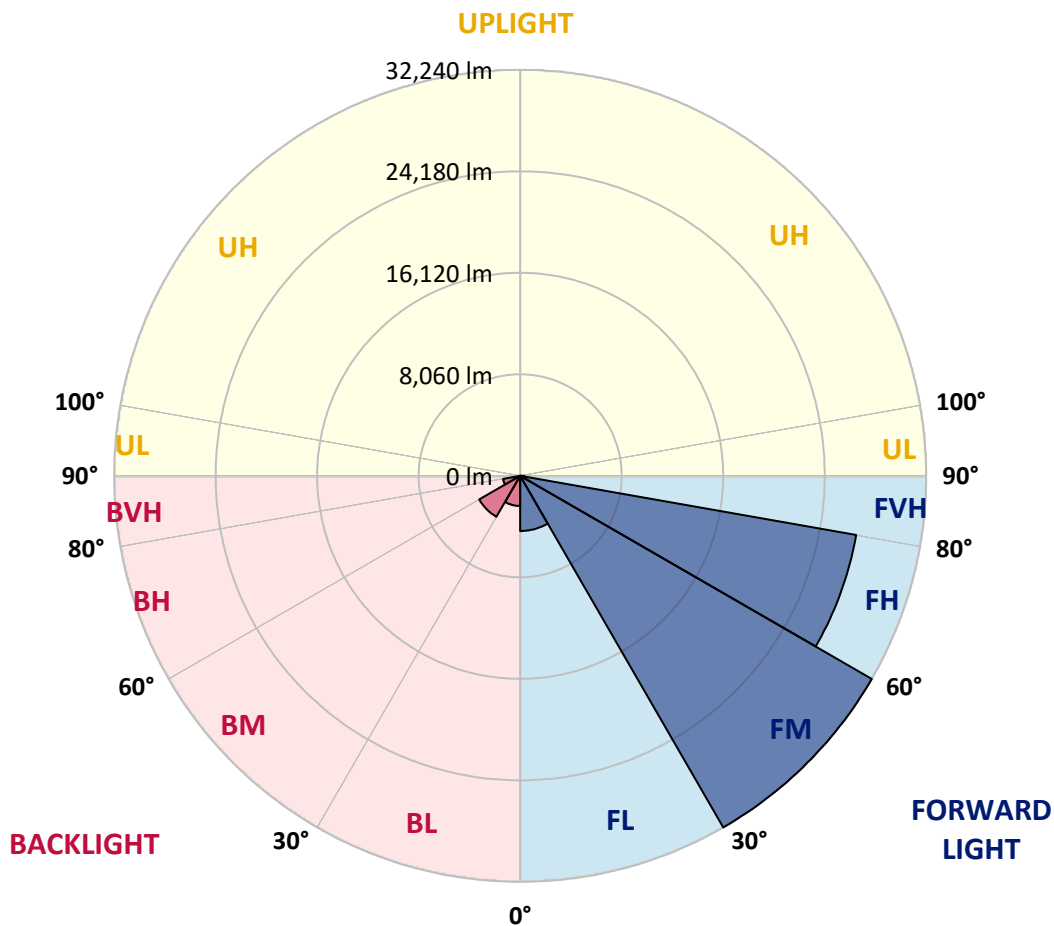
CATALOG NUMBER: GALN-SB9D-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4382.0	6.1			
FM	(30°-60°)	32240.1	45.0			
FH	(60°-80°)	27091.8	37.9			G5
FVH	(80°-90°)	315.1	0.4			G3/500
BL	(0°-30°)	2397.2	3.3	B3/2500		
BM	(30°-60°)	3755.9	5.2	B3/5000		
BH	(60°-80°)	1383.2	1.9	B3/2500		G3/2500
BVH	(80°-90°)	8.7	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 III Medium



REPORT NUMBER: P957363

CATALOG NUMBER: GALN-SB9D-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	11164.3	11164.3	11164.3	11164.3	11164.3	11164.3	11164.3	11164.3	11164.3	11164.3	11164.3
2.5°	10481.7	10576.7	10563.1	10626.4	10649.0	10739.4	10829.8	10951.8	11087.4	11082.9	11173.3
5°	9889.6	9984.5	10007.1	10093.0	10201.5	10341.6	10526.9	10771.0	11024.1	11064.8	11245.6
7.5°	9189.0	9288.5	9347.2	9519.0	9717.9	10007.1	10310.0	10667.1	11087.4	11146.2	11494.2
10°	8488.4	8578.8	8655.7	8899.8	9216.2	9645.6	10138.2	10653.5	11218.5	11304.4	11797.0
12.5°	8054.5	8140.4	8226.3	8438.7	8832.0	9356.3	10025.2	10716.8	11435.4	11557.5	12208.4
15°	7900.9	7977.7	8045.5	8235.3	8601.4	9198.1	10002.6	10847.9	11711.2	11873.9	12705.6
17.5°	7923.5	7964.1	8009.3	8154.0	8511.0	9125.8	10043.3	11073.9	12036.6	12181.2	13202.7
20°	8054.5	8077.1	8081.7	8181.1	8497.5	9116.7	10124.7	11290.8	12344.0	12538.3	13695.4
22.5°	8221.8	8230.8	8221.8	8289.6	8583.4	9184.5	10233.1	11553.0	12687.5	12868.3	14192.6
25°	9003.7	8832.0	8615.0	8483.9	8728.0	9315.6	10395.9	11905.5	13062.6	13238.9	14676.2
27.5°	11430.9	10938.3	10160.8	9288.5	9026.3	9505.4	10621.9	12262.6	13442.3	13600.5	15196.0
30°	15372.3	14726.0	13406.1	11440.0	9984.5	9903.2	10915.7	12619.7	13844.6	14016.3	15752.0
32.5°	19322.7	19164.5	17641.3	14920.3	12140.6	10789.1	11403.8	13103.3	14377.9	14513.5	16502.3
35°	23318.4	22997.5	21750.0	19060.6	15462.7	12592.6	12217.4	13736.1	15078.5	15232.2	17596.1
37.5°	26378.4	26184.0	25411.1	23196.3	19404.1	15376.8	13609.5	14716.9	16095.5	16267.3	18997.3
40°	29081.3	28990.9	28728.7	27268.8	23811.0	19019.9	15774.6	16235.6	17505.7	17709.1	20714.9
42.5°	31205.7	31418.1	31567.3	31160.5	28353.6	23178.3	18685.4	18369.0	19471.9	19679.8	22902.5
45°	33379.8	33452.1	34053.2	34640.8	32864.5	27526.4	21966.9	20868.6	21917.2	22174.8	25524.1
47.5°	34776.4	35065.7	36123.4	37158.4	36656.7	31838.5	25492.5	23820.1	24751.2	25234.8	28462.1
50°	34880.4	35427.3	36882.7	38686.2	39418.4	35942.6	29325.4	27182.9	28172.8	28706.1	31598.9
52.5°	33149.2	33999.0	36254.4	38894.1	40910.0	39418.4	33289.4	30545.8	31815.9	32511.9	34853.3
55°	25415.6	26527.5	33890.5	37764.1	40968.7	42053.5	37149.4	34048.7	35874.8	36661.2	38369.8
57.5°	22143.2	22703.7	26645.0	35802.4	39879.4	43115.7	40638.8	37384.4	40290.7	41267.1	41691.9
60°	18423.3	19160.0	22346.6	32593.3	38401.4	43219.7	43721.4	41687.4	45077.4	46175.7	44738.4
62.5°	12520.2	13320.3	16488.7	27079.0	36381.0	43169.9	46248.0	46116.9	50397.3	51577.0	47319.2
65°	7756.2	8257.9	10346.1	22111.5	33556.0	43224.2	48892.2	51495.7	56011.1	57208.9	49317.1
67.5°	6129.0	6359.6	7448.9	16976.9	28688.1	42003.8	51531.8	56553.5	61294.9	62244.1	49927.3
70°	4117.7	4257.8	5419.4	11381.2	21343.2	36372.0	51482.1	59093.7	64015.9	64490.5	47703.4
72.5°	2169.6	2278.0	3168.5	5270.2	12890.9	25854.1	43395.9	56056.3	61308.5	60594.3	40774.4
75°	1084.8	1265.6	2133.4	2675.8	5505.3	14418.6	26947.9	44196.0	48254.9	45488.7	26161.4
77.5°	822.6	994.4	1762.8	1762.8	1916.5	4854.4	11412.8	24104.8	22233.6	18513.7	7679.4
80°	524.3	678.0	1541.3	1333.4	800.0	1233.9	2974.1	6752.8	4723.3	3593.4	1396.7
82.5°	307.4	443.0	1283.7	881.4	447.5	456.5	840.7	1437.3	1224.9	953.7	429.4
85°	122.0	289.3	881.4	348.0	176.3	113.0	253.1	307.4	253.1	189.8	108.5
87.5°	0.0	67.8	153.7	0.0	13.6	9.0	18.1	22.6	22.6	18.1	36.2
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: P957363

CATALOG NUMBER: GALN-SB9D-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11164.3	11164.3	11164.3	11164.3	11164.3	11164.3	11164.3	11164.3	11164.3	11164.3	11164.3
2.5°	11214.0	11223.0	11250.1	11254.7	11191.4	11110.0	11078.4	11064.8	11010.6	11006.1	11015.1
5°	11349.6	11390.2	11349.6	11232.1	10951.8	10558.6	10260.3	10016.2	9794.7	9726.9	9686.2
7.5°	11620.8	11661.4	11539.4	11078.4	10373.3	9591.3	8886.2	8389.0	7941.5	7774.3	7706.5
10°	12009.5	12063.7	11679.5	10748.4	9500.9	8244.4	7051.1	6210.4	5555.0	5288.3	5175.3
12.5°	12497.6	12520.2	11756.4	10246.7	8366.4	6572.0	4881.5	3982.1	3399.0	3182.0	3114.2
15°	13035.5	13003.9	11765.4	9564.2	6820.6	4646.5	3186.6	2617.0	2382.0	2309.7	2309.7
17.5°	13600.5	13469.4	11584.6	8578.8	5125.6	3177.5	2363.9	2228.3	2187.7	2169.6	2165.1
20°	14156.5	13862.7	11254.7	7290.7	3679.2	2373.0	2147.0	2106.3	2083.7	2074.7	2065.6
22.5°	14662.7	14161.0	10689.7	5794.6	2671.3	2097.3	2029.5	1993.3	1952.6	1934.5	1930.0
25°	15155.4	14332.7	9894.1	4397.9	2137.9	1961.7	1907.4	1839.6	1785.4	1762.8	1753.7
27.5°	15634.5	14441.2	8899.8	3254.4	1907.4	1835.1	1735.7	1640.7	1600.1	1591.0	1582.0
30°	16145.2	14477.4	7769.8	2427.2	1767.3	1676.9	1532.3	1423.8	1401.2	1405.7	1405.7
32.5°	16769.0	14531.6	6630.8	1988.8	1649.8	1487.1	1315.3	1202.3	1184.2	1202.3	1197.8
35°	17514.8	14640.1	5532.4	1830.6	1545.8	1292.7	1107.4	1012.5	994.4	1007.9	1003.4
37.5°	18527.2	14816.4	4506.4	1798.9	1459.9	1130.0	931.1	854.3	854.3	858.8	854.3
40°	19874.2	15286.4	3588.8	1776.3	1414.7	1007.9	786.5	754.8	768.4	777.4	777.4
42.5°	21514.9	16285.3	2969.6	1749.2	1365.0	953.7	714.2	700.6	723.2	732.2	732.2
45°	23354.5	17550.9	2752.6	1704.0	1319.8	989.9	682.5	664.4	691.6	696.1	700.6
47.5°	25257.4	18789.4	2725.5	1654.3	1274.6	1044.1	673.5	632.8	664.4	669.0	673.5
50°	27182.9	19598.5	2752.6	1577.5	1202.3	1044.1	678.0	601.2	628.3	641.8	646.4
52.5°	29122.0	19969.1	2734.6	1410.2	1075.7	980.8	678.0	574.0	601.2	610.2	610.2
55°	31002.3	19896.8	2458.8	1161.6	913.0	867.8	659.9	551.4	569.5	574.0	574.0
57.5°	32489.3	18888.8	1948.1	904.0	741.3	723.2	601.2	524.3	537.9	533.4	533.4
60°	33266.8	16674.1	1392.1	696.1	583.1	569.5	528.8	488.2	497.2	474.6	470.1
62.5°	33275.8	13745.1	931.1	551.4	465.6	452.0	452.0	438.4	429.4	384.2	370.6
65°	32566.2	10495.3	619.2	438.4	375.2	352.6	379.7	375.2	343.5	280.2	271.2
67.5°	30957.1	6879.3	470.1	343.5	289.3	275.7	302.8	316.4	293.8	235.0	230.5
70°	27648.5	4004.7	388.7	266.7	217.0	203.4	244.1	271.2	244.1	189.8	180.8
72.5°	22965.8	2160.5	316.4	198.9	149.2	135.6	194.4	221.5	194.4	140.1	135.6
75°	14902.2	1157.1	244.1	131.1	76.8	85.9	144.6	162.7	135.6	90.4	81.4
77.5°	5003.6	510.8	153.7	63.3	36.2	36.2	85.9	99.4	63.3	31.6	27.1
80°	1116.4	212.4	63.3	27.1	13.6	13.6	18.1	18.1	9.0	0.0	0.0
82.5°	366.1	85.9	27.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	140.1	31.6	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	54.2	4.5	0.0	0.0	0.0	0.0	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)