

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: P324900

Luminaire Tested: **GAN-SA6D-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37988 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

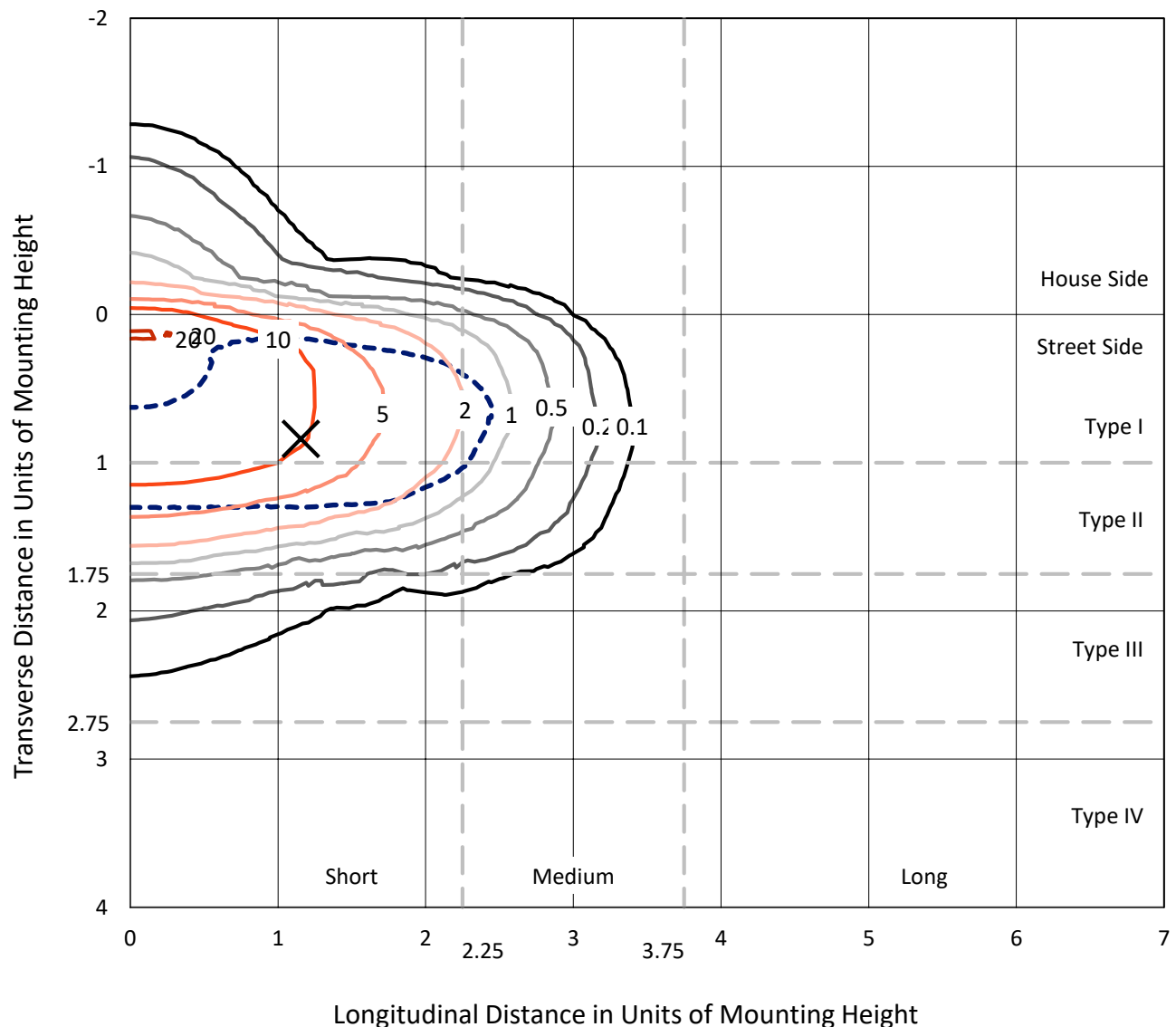
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324900
 CATALOG NUMBER: GAN-SA6D-760-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

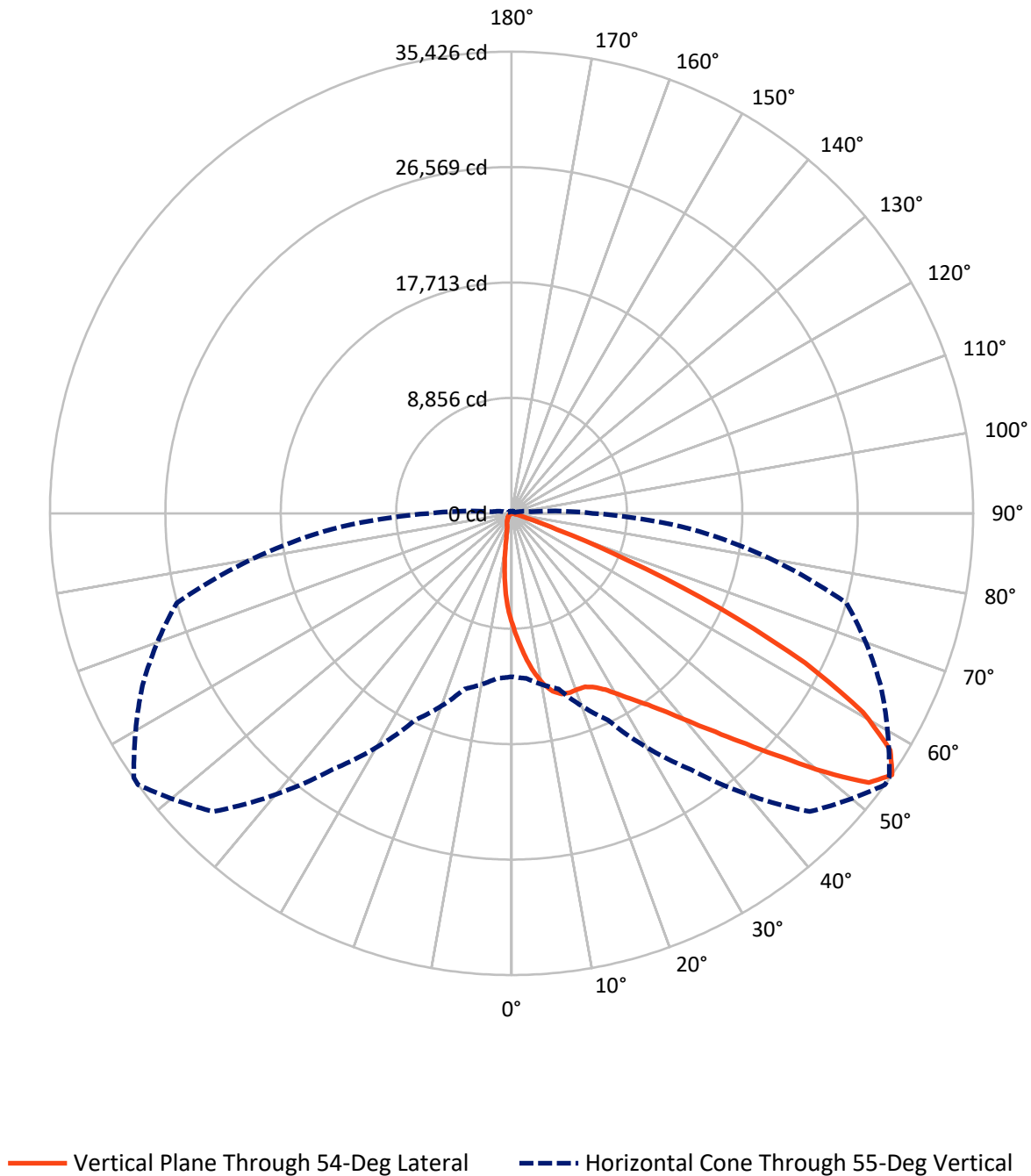
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
 Type II - Short - N/A

REPORT NUMBER: P324900
CATALOG NUMBER: GAN-SA6D-760-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324900

CATALOG NUMBER: GAN-SA6D-760-U-AFL-HSS

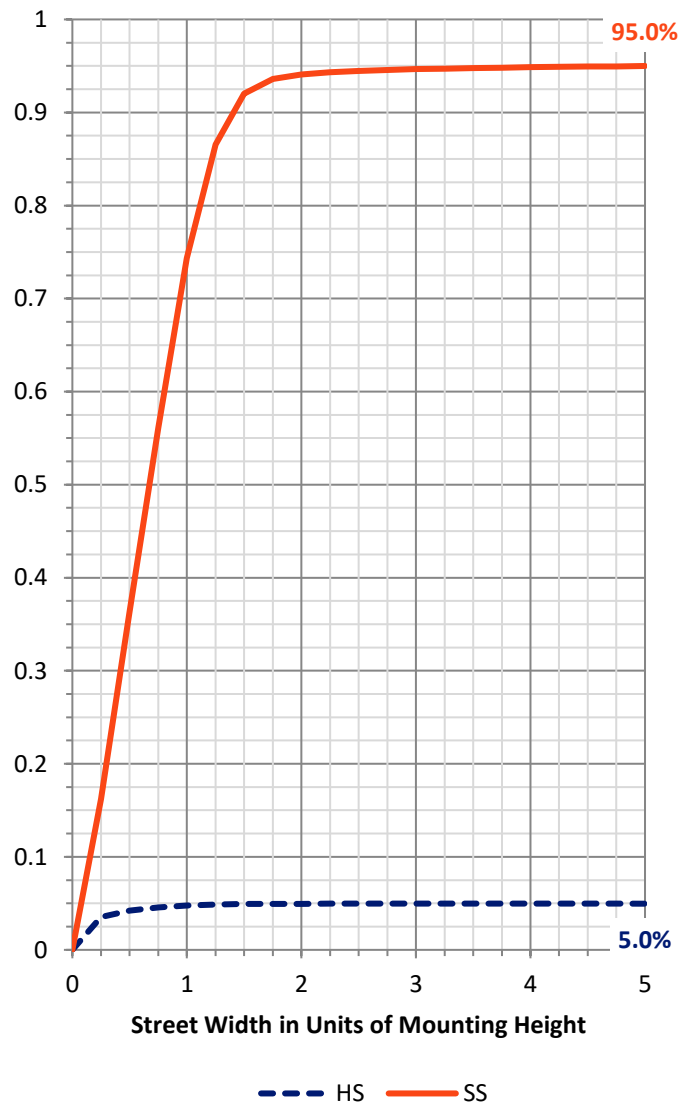
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1895.3	0.0	1895.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	36092.7	0.0	36092.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	37988.0	0.0	37988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.5	2.1
10°-20°	2148.7	5.7
20°-30°	3668.5	9.7
30°-40°	5887.4	15.5
40°-50°	9408.0	24.8
50°-60°	10081.0	26.5
60°-70°	5175.9	13.6
70°-80°	784.0	2.1
80°-90°	51.1	0.1
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°	37988.0	100.0
0°-180°	37988.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324900

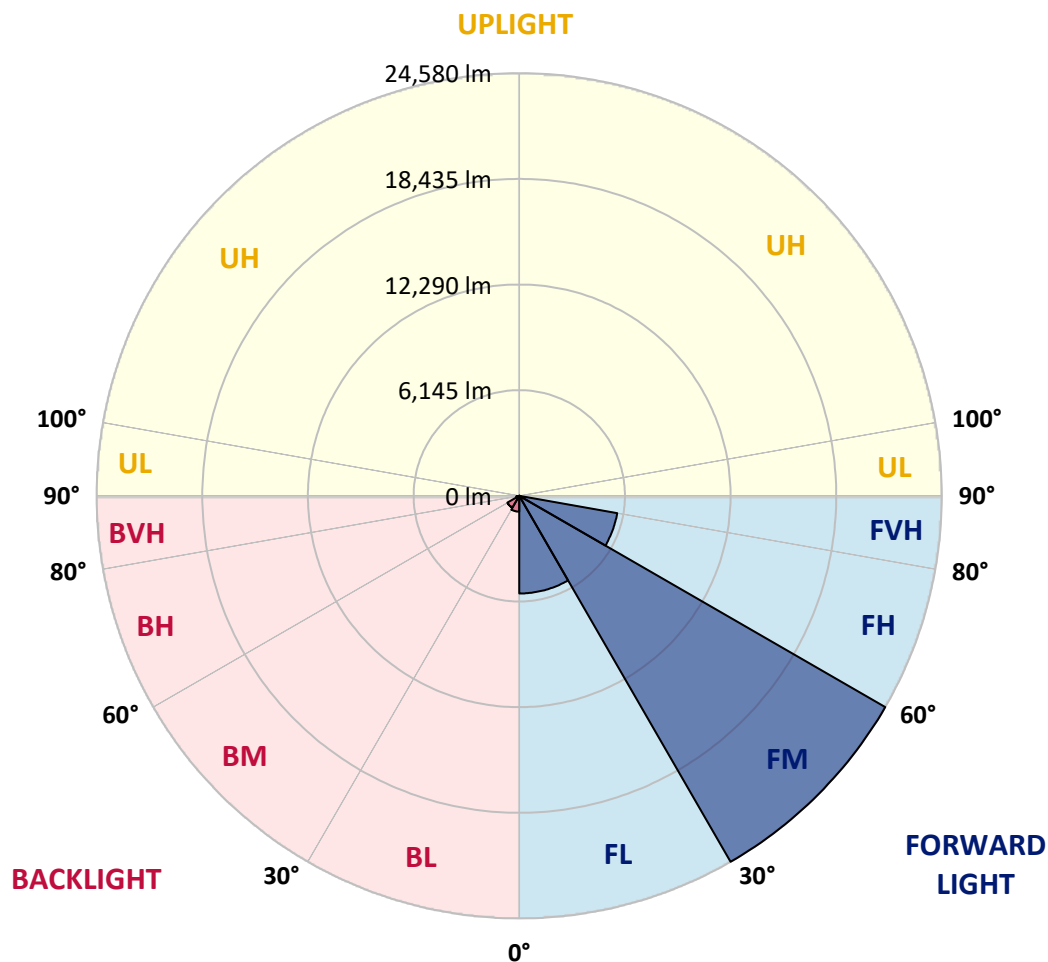
CATALOG NUMBER: GAN-SA6D-760-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5678.6	14.9			
FM	(30°-60°)	24579.9	64.7			
FH	(60°-80°)	5785.2	15.2			G3/7500
FVH	(80°-90°)	49.0	0.1			G1/100
BL	(0°-30°)	922.1	2.4	B2/1000		
BM	(30°-60°)	796.5	2.1	B1/1000		
BH	(60°-80°)	174.7	0.5	B1/500		G1/500
BVH	(80°-90°)	2.1	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-G3

Type II Short





REPORT NUMBER: P324900

CATALOG NUMBER: GAN-SA6D-760-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8
2.5°	10676.6	10517.4	10522.4	10450.2	10186.0	9979.3	9764.4	9713.6	9378.9	9027.8	8689.9
5°	12522.2	12405.7	12377.8	12238.4	11870.9	11482.1	11065.4	10968.6	10314.0	9595.5	8888.4
7.5°	13470.4	13472.0	13449.1	13398.2	13168.5	12791.2	12282.6	12180.9	11290.1	10212.3	9095.1
10°	13194.8	13257.1	13385.1	13554.1	13729.6	13682.0	13299.8	13207.9	12240.0	10865.2	9324.8
12.5°	12551.7	12559.9	12702.6	12979.9	13485.2	14003.6	14010.1	13979.0	13147.2	11547.7	9577.4
15°	12231.8	12263.0	12315.5	12494.3	12973.3	13803.4	14397.3	14441.6	13979.0	12272.8	9846.5
17.5°	12441.8	12486.1	12441.8	12463.1	12740.4	13486.8	14464.6	14577.7	14705.7	12989.7	10100.7
20°	13011.0	13052.1	12973.3	12886.4	12940.5	13394.9	14417.0	14569.5	15275.0	13626.2	10314.0
22.5°	13778.8	13795.2	13675.5	13532.7	13493.4	13706.6	14456.3	14613.8	15731.0	14202.1	10448.5
25°	14623.7	14638.4	14489.2	14325.1	14231.6	14318.5	14779.5	14897.7	16133.0	14751.6	10525.6
27.5°	15544.0	15557.1	15370.1	15168.3	15060.1	15063.3	15312.7	15439.0	16561.1	15378.3	10588.0
30°	16516.9	16510.3	16338.0	16057.5	15919.7	15916.4	16080.5	16208.4	17181.3	16182.2	10673.3
32.5°	17609.4	17596.3	17351.9	17004.1	16848.2	16871.2	17017.2	17091.0	17950.7	17038.5	10825.9
35°	19048.2	19010.5	18641.3	18209.9	17922.8	17914.6	18037.6	18096.7	18931.7	18075.4	11080.1
37.5°	20915.1	20880.7	20380.3	19753.6	19350.0	19199.1	19345.1	19420.6	20331.1	19405.8	11488.6
40°	22755.8	22721.3	22424.4	21850.2	21228.5	20865.9	20980.7	21061.1	22078.2	21020.1	12003.8
42.5°	24025.6	24055.1	24158.4	24206.0	23623.6	22862.4	22914.9	22998.6	23914.0	22745.9	12592.7
45°	24360.2	24424.2	25008.2	26155.0	26373.2	25779.3	25229.7	25275.6	25779.3	24471.8	13181.7
47.5°	23354.6	23472.7	24599.7	26732.4	28579.7	28999.6	27959.5	27898.8	27569.1	25867.9	13600.0
50°	21069.3	21177.6	22637.7	25792.4	29249.0	32074.0	31230.8	31051.9	29139.1	26702.9	13747.6
52.5°	17762.0	17893.3	19079.4	22832.9	27987.4	33445.5	34328.1	34178.8	30290.7	26768.5	13772.2
55°	12543.5	12702.6	13957.6	17499.5	23989.5	32354.5	35425.6	35381.3	31247.2	26594.6	13824.7
57.5°	7049.4	7164.2	8517.6	11217.9	17570.1	28181.0	34278.9	34572.5	31824.6	26292.8	13903.5
60°	3130.1	3161.3	3861.8	5584.4	10286.1	21536.9	30996.2	31491.6	31329.2	25889.2	14036.4
62.5°	1735.7	1709.4	1709.4	2321.3	4470.4	13332.6	25275.6	26094.3	29214.6	25411.8	14042.9
65°	1360.0	1335.4	1264.8	1274.7	1702.9	5917.4	17502.8	18958.0	25198.5	24012.4	13570.5
67.5°	1153.3	1132.0	1061.4	1033.5	1058.1	1952.2	9616.8	11127.7	19120.4	20375.4	11754.4
70°	974.5	959.7	923.6	889.2	826.8	964.6	3679.7	4706.7	11782.3	13554.1	8023.8
72.5°	784.2	777.6	790.7	761.2	685.7	643.1	1258.3	1524.1	5292.3	6048.6	3305.7
75°	675.9	672.6	679.2	649.6	564.3	447.9	639.8	698.9	1492.9	1479.8	669.3
77.5°	439.7	444.6	562.7	549.6	485.6	298.6	331.4	357.6	452.8	339.6	203.4
80°	280.5	277.2	285.5	456.1	436.4	228.0	165.7	173.9	218.2	167.3	98.4
82.5°	170.6	167.3	187.0	213.3	219.8	159.1	101.7	103.4	136.2	108.3	52.5
85°	14.8	19.7	113.2	105.0	75.5	49.2	49.2	52.5	72.2	64.0	29.5
87.5°	0.0	0.0	19.7	29.5	16.4	18.0	18.0	19.7	27.9	27.9	14.8
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: P324900

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8
2.5°	8514.3	8343.7	7999.2	7667.8	7387.3	7116.6	6808.2	6503.1	6360.3	6302.9	6243.9
5°	8529.1	8178.0	7467.7	6752.4	6010.9	5343.2	4773.9	4189.9	3897.9	3769.9	3710.9
7.5°	8548.8	8014.0	6865.6	5664.7	4470.4	3564.9	2774.1	2265.6	2045.7	2011.3	1926.0
10°	8552.1	7815.5	6166.8	4463.9	2997.2	2149.1	1653.7	1391.2	1294.4	1278.0	1250.1
12.5°	8558.6	7580.9	5390.8	3305.7	1998.2	1437.1	1195.9	1109.0	1082.7	1081.1	1081.1
15°	8578.3	7334.8	4585.3	2382.0	1435.5	1138.5	1049.9	1015.5	1005.6	1010.6	1008.9
17.5°	8578.3	7044.4	3794.5	1775.1	1159.9	1023.7	974.5	951.5	948.2	953.1	954.8
20°	8516.0	6691.7	3069.4	1381.3	1028.6	949.9	905.6	884.2	876.0	879.3	881.0
22.5°	8366.7	6258.6	2478.8	1143.4	941.7	882.6	835.0	802.2	789.1	790.7	790.7
25°	8133.7	5745.1	1939.1	989.2	871.1	810.4	754.6	716.9	708.7	707.1	710.3
27.5°	7835.2	5177.5	1543.7	871.1	787.5	730.0	674.3	643.1	636.5	638.2	639.8
30°	7541.5	4588.6	1217.3	771.0	693.9	639.8	597.2	582.4	582.4	587.3	589.0
32.5°	7272.5	4022.6	963.0	684.1	610.3	561.1	536.5	534.8	543.0	546.3	547.9
35°	7041.2	3499.2	797.3	616.8	544.7	502.0	493.8	500.4	510.2	516.8	518.4
37.5°	6877.1	3031.7	697.2	561.1	493.8	459.3	457.7	470.8	484.0	498.7	502.0
40°	6808.2	2636.3	628.3	511.8	452.8	426.5	421.6	439.7	464.3	485.6	488.9
42.5°	6750.8	2313.1	569.3	464.3	420.0	382.2	380.6	403.6	433.1	454.4	459.3
45°	6701.6	2053.9	515.1	413.4	377.3	328.1	333.0	362.6	385.5	408.5	413.4
47.5°	6599.9	1840.7	456.1	359.3	311.7	280.5	290.4	316.6	334.7	369.1	374.0
50°	6417.8	1666.8	395.4	293.7	254.3	242.8	257.6	275.6	298.6	328.1	331.4
52.5°	6294.7	1535.5	342.9	246.1	210.0	213.3	228.0	234.6	247.7	259.2	255.9
55°	6224.2	1463.4	300.2	213.3	178.8	188.7	191.9	183.7	177.2	165.7	160.8
57.5°	6216.0	1397.7	267.4	185.4	157.5	162.4	150.9	123.0	100.1	86.9	83.7
60°	6202.8	1317.3	241.2	155.9	139.4	132.9	108.3	67.3	47.6	44.3	44.3
62.5°	6060.1	1192.7	221.5	131.2	118.1	100.1	62.3	31.2	26.2	27.9	27.9
65°	5605.7	1018.8	201.8	106.6	93.5	72.2	31.2	18.0	9.8	11.5	11.5
67.5°	4765.7	812.1	180.5	82.0	70.5	45.9	18.0	8.2	0.0	0.0	0.0
70°	3190.8	503.6	152.6	57.4	45.9	27.9	13.1	1.6	0.0	0.0	0.0
72.5°	1223.8	272.3	123.0	34.5	29.5	19.7	8.2	0.0	0.0	0.0	0.0
75°	275.6	178.8	85.3	24.6	21.3	13.1	3.3	0.0	0.0	0.0	0.0
77.5°	105.0	129.6	49.2	16.4	14.8	8.2	0.0	0.0	0.0	0.0	0.0
80°	50.9	77.1	23.0	9.8	8.2	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	26.2	29.5	9.8	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	14.8	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	4.9	1.6	1.6	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)