

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: P383660

Luminaire Tested: **GAN-SA9B-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34494.3 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

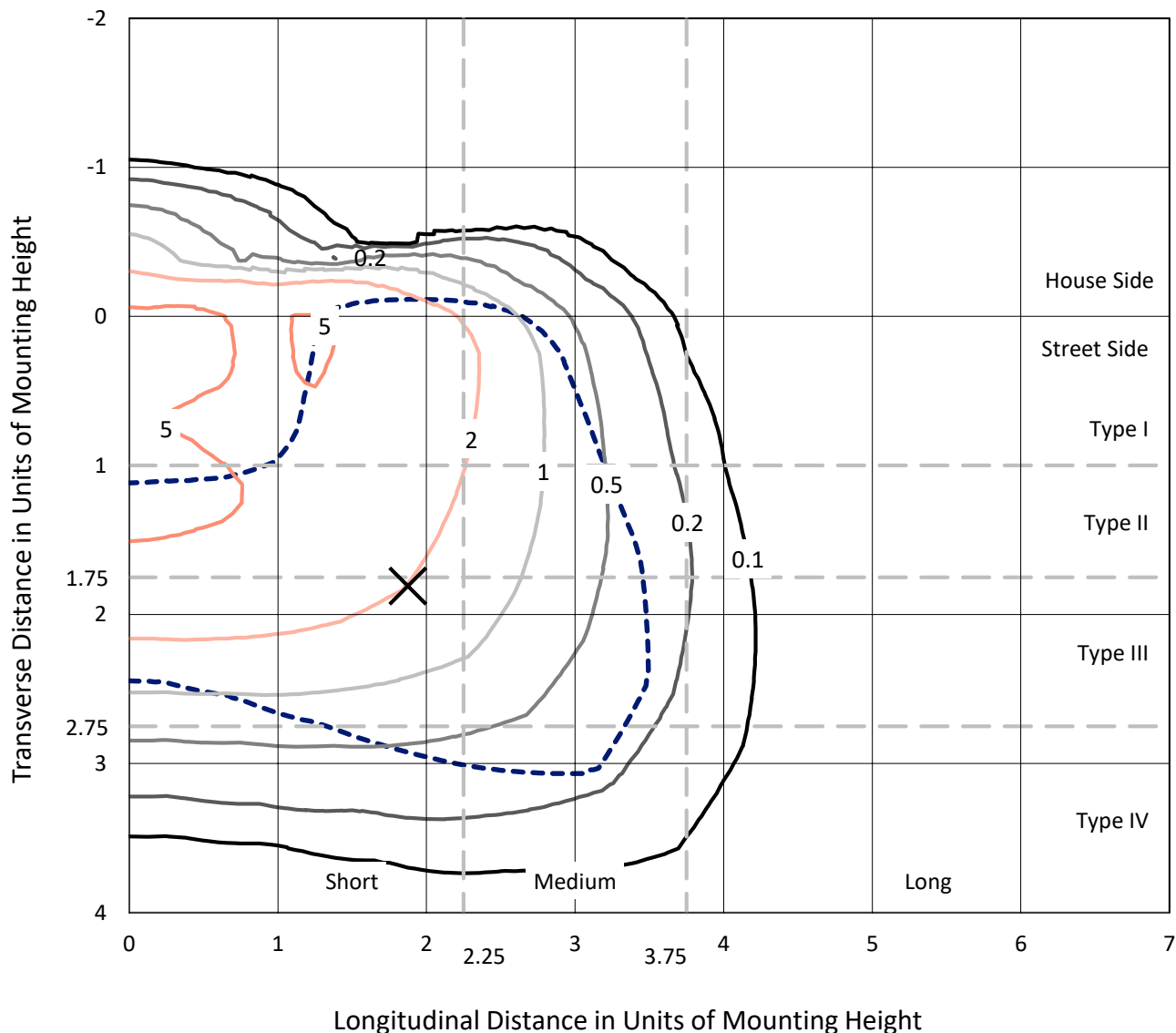
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383660
 CATALOG NUMBER: GAN-SA9B-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

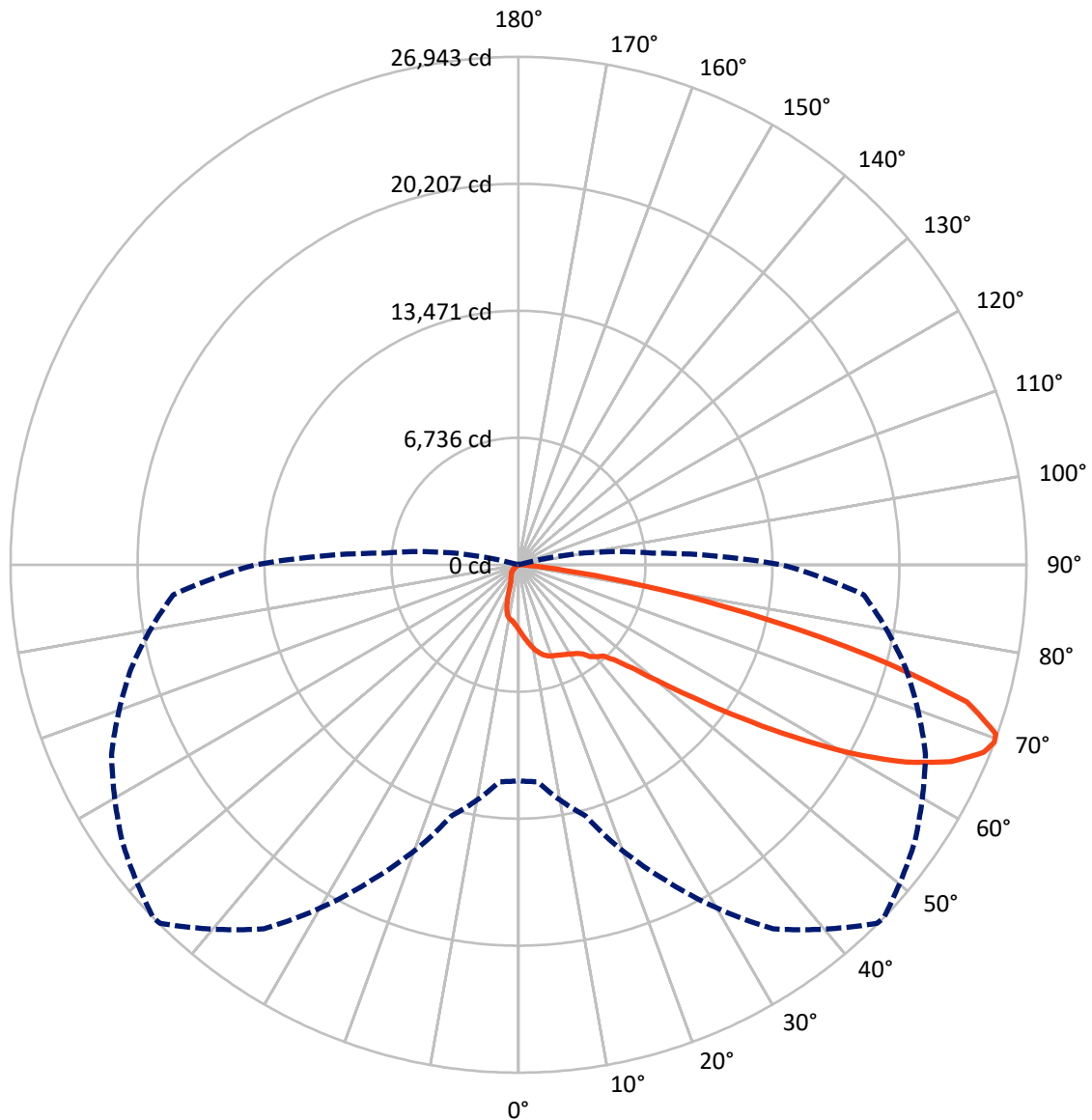
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

REPORT NUMBER: P383660
CATALOG NUMBER: GAN-SA9B-735-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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 CATALOG NUMBER: GAN-SA9B-735-U-T4W-HSS

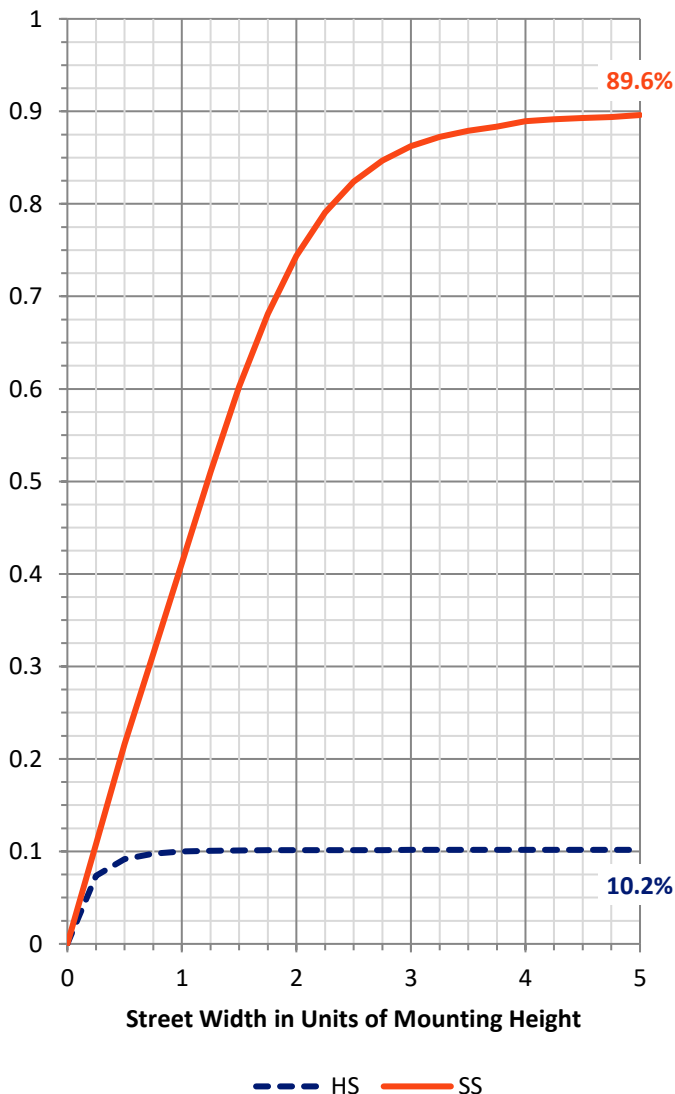
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3540.0	0.0	3540.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	30954.2	0.0	30954.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	34494.3	0.0	34494.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.0	1.0
10°-20°	1043.6	3.0
20°-30°	1641.3	4.8
30°-40°	2353.6	6.8
40°-50°	4068.0	11.8
50°-60°	8036.7	23.3
60°-70°	11232.0	32.6
70°-80°	5426.3	15.7
80°-90°	348.8	1.0
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°	34494.3	100.0
0°-180°	34494.3	100.0

Coefficient of Utilization

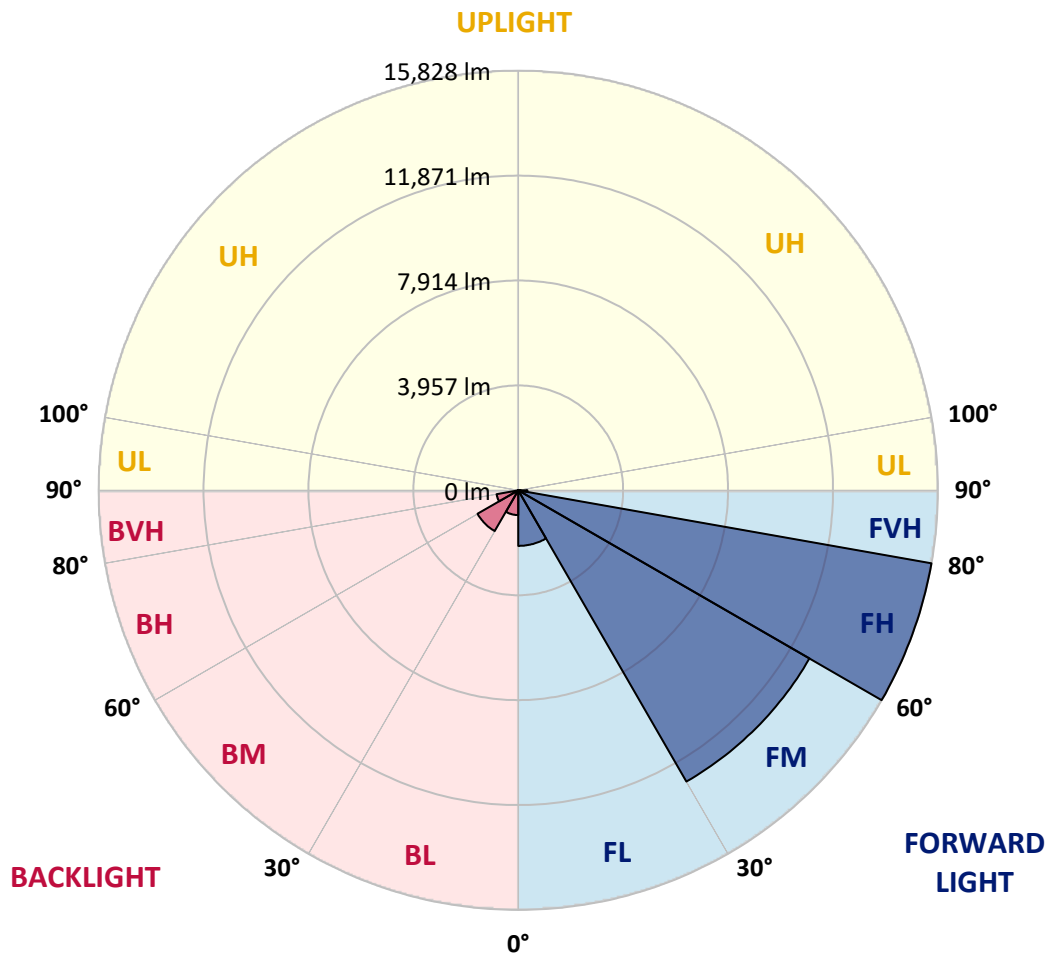


REPORT NUMBER: P383660
 CATALOG NUMBER: GAN-SA9B-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2095.9	6.1			
FM (30°-60°)	12684.3	36.8			
FH (60°-80°)	15828.2	45.9			G5
FVH (80°-90°)	345.8	1.0			G3/500
BL (0°-30°)	933.0	2.7	B2/1000		
BM (30°-60°)	1774.0	5.1	B2/2500		
BH (60°-80°)	830.1	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





REPORT NUMBER: P383660

CATALOG NUMBER: GAN-SA9B-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3456.2	3456.2	3456.2	3456.2	3456.2	3456.2	3456.2	3456.2	3456.2	3456.2	3456.2
2.5°	3839.5	3834.6	3812.0	3802.3	3747.3	3715.0	3702.1	3661.6	3603.4	3545.2	3480.4
5°	4276.2	4274.6	4232.5	4192.1	4088.6	3991.5	3973.7	3879.9	3748.9	3626.0	3503.1
7.5°	4722.6	4701.5	4659.5	4581.8	4431.5	4276.2	4261.6	4129.0	3943.1	3765.1	3588.8
10°	5101.0	5088.0	5033.1	4915.0	4738.7	4562.4	4544.6	4381.3	4171.0	3952.7	3727.9
12.5°	5395.3	5385.6	5312.9	5165.7	4978.1	4795.3	4771.1	4625.5	4400.7	4156.5	3891.3
15°	5574.8	5570.0	5481.0	5324.2	5139.8	4981.4	4960.3	4832.5	4623.9	4368.4	4069.2
17.5°	5617.0	5618.5	5526.3	5367.9	5215.8	5102.6	5086.4	4989.4	4814.7	4560.9	4247.0
20°	5523.1	5542.5	5460.1	5322.6	5228.8	5169.0	5156.0	5097.8	4950.6	4711.2	4389.4
22.5°	5390.5	5400.2	5343.6	5251.4	5212.6	5223.9	5217.4	5185.1	5060.5	4840.6	4530.1
25°	5309.6	5309.6	5275.6	5198.0	5223.9	5293.4	5295.1	5288.6	5189.9	4999.2	4701.5
27.5°	5306.4	5296.7	5257.8	5199.6	5270.8	5377.5	5384.1	5427.7	5366.3	5191.6	4915.0
30°	5435.8	5424.5	5342.0	5265.9	5356.6	5471.4	5487.6	5583.0	5552.2	5400.2	5152.8
32.5°	5738.2	5697.8	5515.0	5390.5	5458.4	5595.9	5617.0	5769.0	5817.5	5657.4	5382.4
35°	6152.2	6024.5	5760.9	5626.6	5633.1	5777.1	5796.5	6019.7	6163.6	5893.5	5560.3
37.5°	6723.2	6660.1	6231.5	5872.5	5901.5	6119.9	6176.5	6419.1	6378.7	6022.8	5762.5
40°	7975.0	7876.3	7420.2	6561.4	6158.7	6398.1	6415.8	6545.2	6548.5	6315.6	6183.0
42.5°	9679.6	9639.2	9158.9	7811.6	6664.9	6584.1	6616.4	6834.8	7079.0	6933.4	6927.0
45°	11567.0	11546.0	11036.5	9471.0	7688.7	7193.8	7234.2	7527.0	7994.4	8026.7	8232.1
47.5°	13085.6	13075.9	12783.3	11322.8	9255.9	8227.2	8240.2	8550.8	9372.3	9778.3	10106.5
50°	14470.1	14517.0	14285.7	13326.6	11390.8	9846.2	9815.4	10022.5	11342.2	12006.9	12414.5
52.5°	16394.7	16461.0	15812.5	15196.2	13630.7	11854.9	11830.7	12047.3	13710.0	14208.1	14280.9
55°	18094.5	17981.3	17468.6	17290.7	16362.4	14335.9	14329.4	14520.2	16000.1	16211.9	16346.1
57.5°	18844.9	18801.2	19048.8	19456.3	19223.4	17268.0	17253.5	17108.0	18049.2	18071.8	18484.2
60°	19318.8	19372.2	20130.7	21387.3	21967.9	20423.4	20329.6	19441.7	20006.2	19956.0	20397.5
62.5°	18963.0	19068.1	20433.1	22527.5	24021.9	23177.7	23045.1	21579.8	21678.4	21505.4	21916.2
65°	17074.0	17237.4	19474.1	22312.4	25040.8	25330.4	25196.1	23467.2	23006.2	22721.7	22493.6
67.5°	13863.6	13960.6	16296.0	20441.2	24581.5	26614.5	26587.0	25121.7	24009.0	22516.3	20746.9
69°	11457.0	11552.5	13800.5	18471.3	23570.8	26889.4	26942.8	25652.2	23818.2	21267.7	18382.4
70°	9703.8	9805.7	11900.1	16782.9	22398.1	26761.7	26857.1	25602.1	23271.5	19821.7	16307.4
72.5°	5089.7	5177.0	7326.4	11562.2	18259.5	24573.5	24862.9	23438.1	19726.4	14395.7	9642.4
75°	1599.6	1649.7	2861.1	6043.9	12501.8	19107.0	19173.2	18385.6	14007.6	7918.3	4015.8
77.5°	609.7	595.2	952.6	2227.1	6320.5	12031.2	12437.1	11489.4	7350.7	2799.6	926.7
80°	328.3	330.0	494.9	921.9	2704.2	6183.0	6525.9	5568.4	2612.0	873.3	213.5
82.5°	142.3	148.8	278.2	488.4	1242.1	2280.4	2451.8	2041.0	997.9	587.1	79.3
85°	30.7	34.0	134.2	265.2	506.2	640.4	671.2	661.5	635.6	456.1	30.7
87.5°	0.0	0.0	59.8	95.4	127.8	145.6	127.8	166.6	350.9	307.3	16.2
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°	3456.2	3456.2	3456.2	3456.2	3456.2	3456.2	3456.2	3456.2	3456.2	3456.2	3456.2
2.5°	3459.4	3430.3	3380.2	3325.2	3286.4	3246.0	3213.6	3199.0	3182.9	3171.5	3186.1
5°	3453.0	3396.3	3299.4	3205.5	3137.5	3082.6	3037.3	3019.5	3001.7	2988.8	2987.2
7.5°	3509.6	3430.3	3281.6	3144.1	3038.9	2964.6	2903.1	2877.2	2856.2	2846.4	2838.4
10°	3617.9	3516.0	3317.1	3137.5	3001.7	2875.6	2742.9	2641.0	2574.8	2544.1	2532.7
12.5°	3758.6	3630.9	3385.1	3171.5	2974.2	2731.7	2450.2	2207.7	2050.7	1999.0	1968.3
15°	3923.6	3765.1	3474.0	3215.2	2874.0	2430.8	1953.7	1636.7	1491.1	1462.1	1429.7
17.5°	4082.1	3907.5	3580.8	3223.3	2654.0	1942.4	1431.3	1216.2	1159.6	1179.1	1183.9
20°	4221.2	4048.1	3685.9	3152.2	2254.5	1457.2	1107.9	1054.5	1075.5	1112.7	1119.2
22.5°	4361.9	4184.0	3782.9	2964.6	1743.5	1106.2	997.9	1010.8	1031.9	1069.0	1075.5
25°	4533.3	4348.9	3873.5	2620.1	1308.5	941.2	947.8	967.1	988.2	1022.2	1025.4
27.5°	4730.7	4557.6	3933.3	2172.1	970.4	865.2	886.3	915.4	936.4	968.8	975.2
30°	4992.6	4832.5	3952.7	1707.9	813.5	797.3	807.0	842.6	873.3	902.5	907.3
32.5°	5238.5	5104.2	3888.0	1289.0	753.6	734.2	734.2	755.3	790.9	818.4	824.8
35°	5464.9	5377.5	3681.0	942.9	708.3	676.0	659.9	659.9	682.5	705.2	711.6
37.5°	5764.1	5760.9	3346.2	752.0	664.8	627.5	593.6	567.7	559.6	564.4	567.7
40°	6276.8	6281.6	2909.5	674.4	627.5	577.4	525.7	478.7	435.0	420.5	418.9
42.5°	7077.3	7004.6	2451.8	637.2	595.2	525.7	448.0	384.9	317.0	296.0	294.4
45°	8348.5	7916.8	1966.7	603.3	561.2	467.4	370.4	284.7	229.6	213.5	213.5
47.5°	10200.4	9115.2	1523.5	566.1	515.9	401.1	279.8	205.4	168.2	160.1	161.7
50°	12115.3	10289.3	1167.7	519.2	460.9	331.5	207.0	148.8	127.8	127.8	129.4
52.5°	13813.5	11149.8	910.6	469.0	393.0	260.4	156.9	116.4	106.8	105.2	106.8
55°	15403.3	11704.5	697.1	410.8	312.2	194.0	119.7	95.4	89.0	85.7	84.1
57.5°	16936.5	11979.4	522.4	331.5	226.5	140.7	95.4	80.9	74.4	69.6	67.9
60°	17957.1	11756.2	359.0	244.3	156.9	101.9	79.3	69.6	61.5	56.6	55.0
62.5°	18532.8	11146.5	231.3	176.2	111.6	76.0	63.1	58.2	46.9	42.0	42.0
65°	18299.9	10140.5	161.7	126.1	80.9	56.6	46.9	46.9	34.0	27.5	25.9
67.5°	16216.8	8566.9	122.9	93.8	58.2	42.0	35.6	40.4	21.1	12.9	12.9
69°	13952.5	7100.0	105.2	77.6	48.5	34.0	30.7	37.2	14.5	9.7	8.1
70°	12126.6	6124.7	95.4	67.9	40.4	29.2	27.5	35.6	14.5	8.1	6.4
72.5°	7255.3	3415.8	72.8	48.5	25.9	22.6	22.6	40.4	14.5	8.1	6.4
75°	2932.2	1203.3	53.4	34.0	19.4	19.4	27.5	51.8	12.9	6.4	4.8
77.5°	664.8	263.6	30.7	21.1	12.9	19.4	32.3	40.4	8.1	3.3	0.0
80°	161.7	64.6	19.4	12.9	8.1	14.5	24.2	22.6	1.6	0.0	0.0
82.5°	53.4	22.6	8.1	6.4	1.6	4.8	11.4	6.4	0.0	0.0	0.0
85°	22.6	12.9	3.3	1.6	0.0	0.0	1.6	0.0	0.0	0.0	0.0
87.5°	14.5	4.8	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)