

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: P322889

Luminaire Tested: **GAN-SA5C-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322889
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-SA5C-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA 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: 25623 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

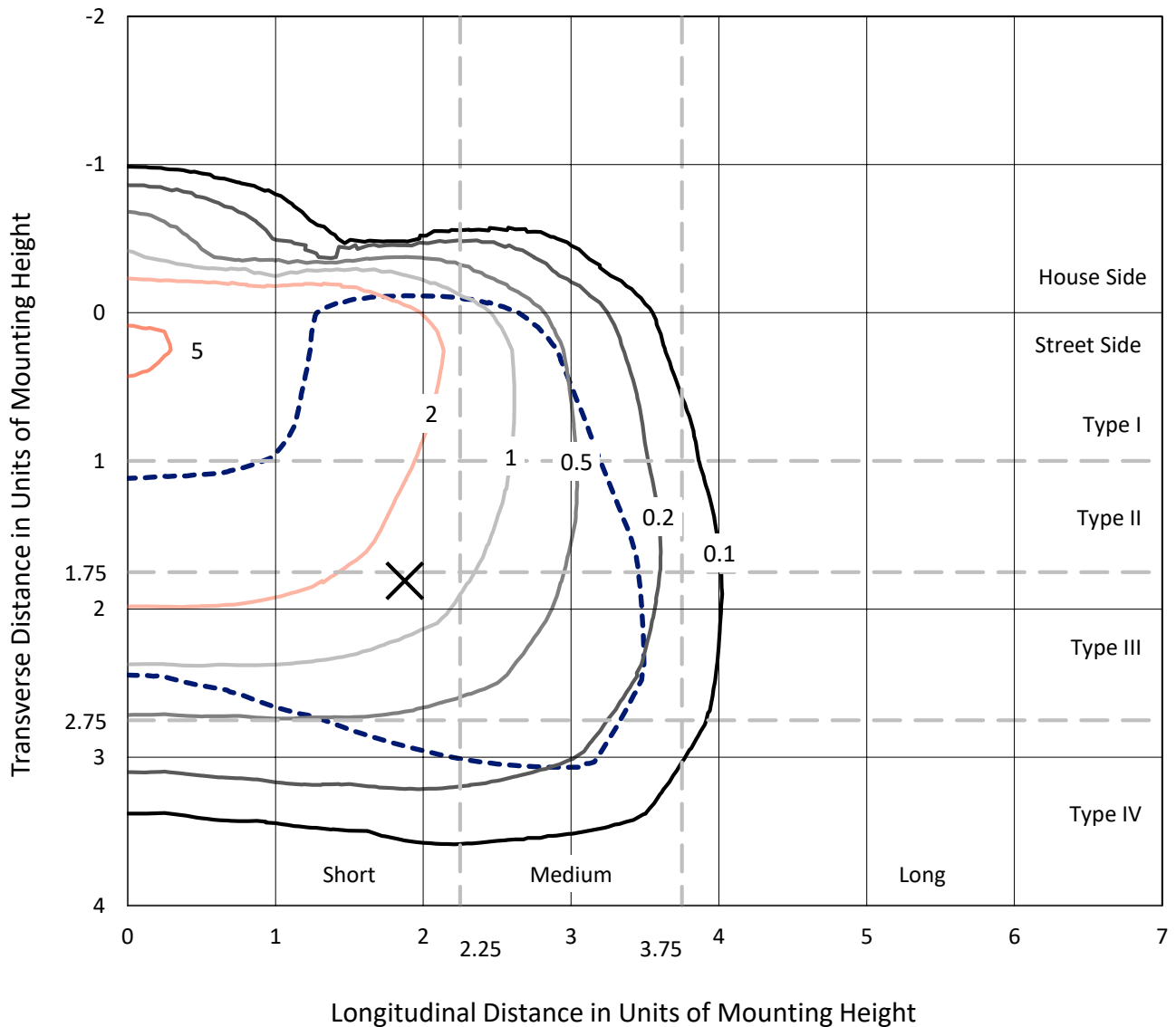
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

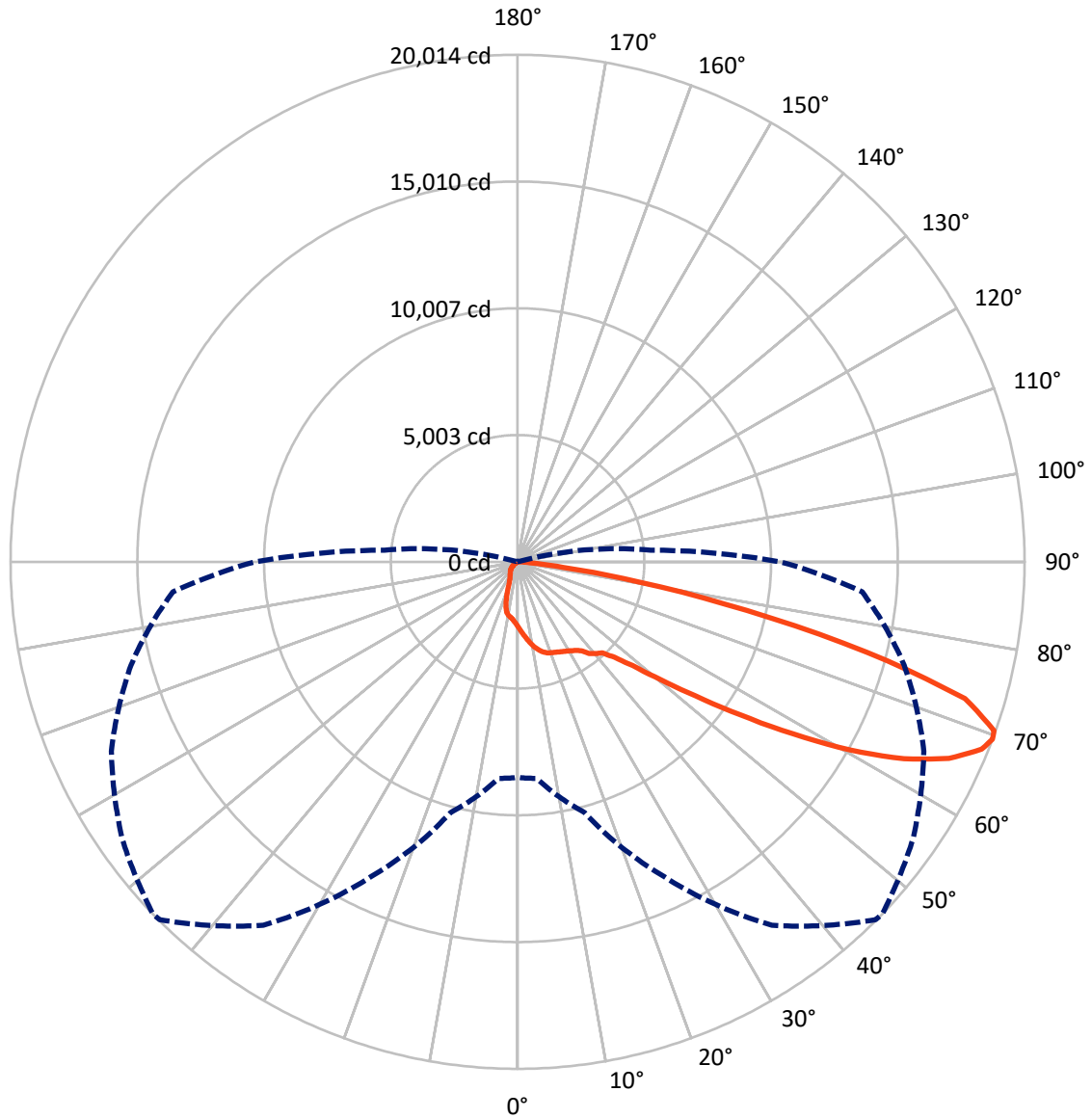
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GAN-SA5C-740-U-T4W-HSS

Luminous Intensity Polar Plot



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

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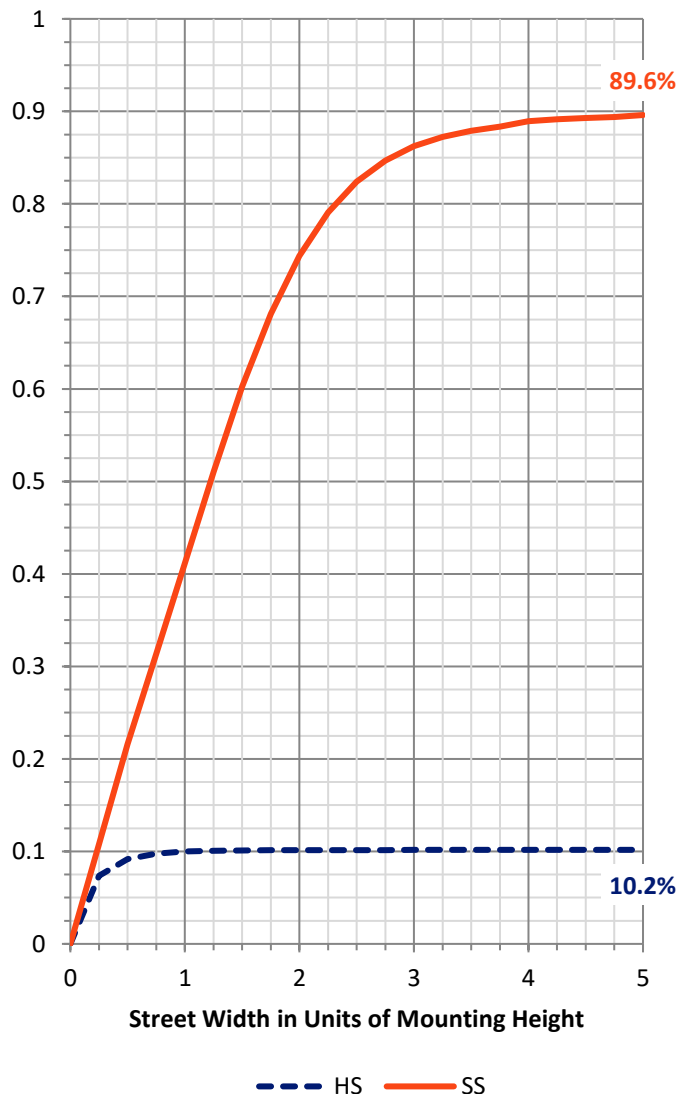
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2629.6	0.0	2629.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	22993.4	0.0	22993.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	25623.0	0.0	25623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	1.0
10°-20°	775.2	3.0
20°-30°	1219.2	4.8
30°-40°	1748.3	6.8
40°-50°	3021.8	11.8
50°-60°	5969.8	23.3
60°-70°	8343.3	32.6
70°-80°	4030.7	15.7
80°-90°	259.1	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°	25623.0	100.0
0°-180°	25623.0	100.0

Coefficient of Utilization

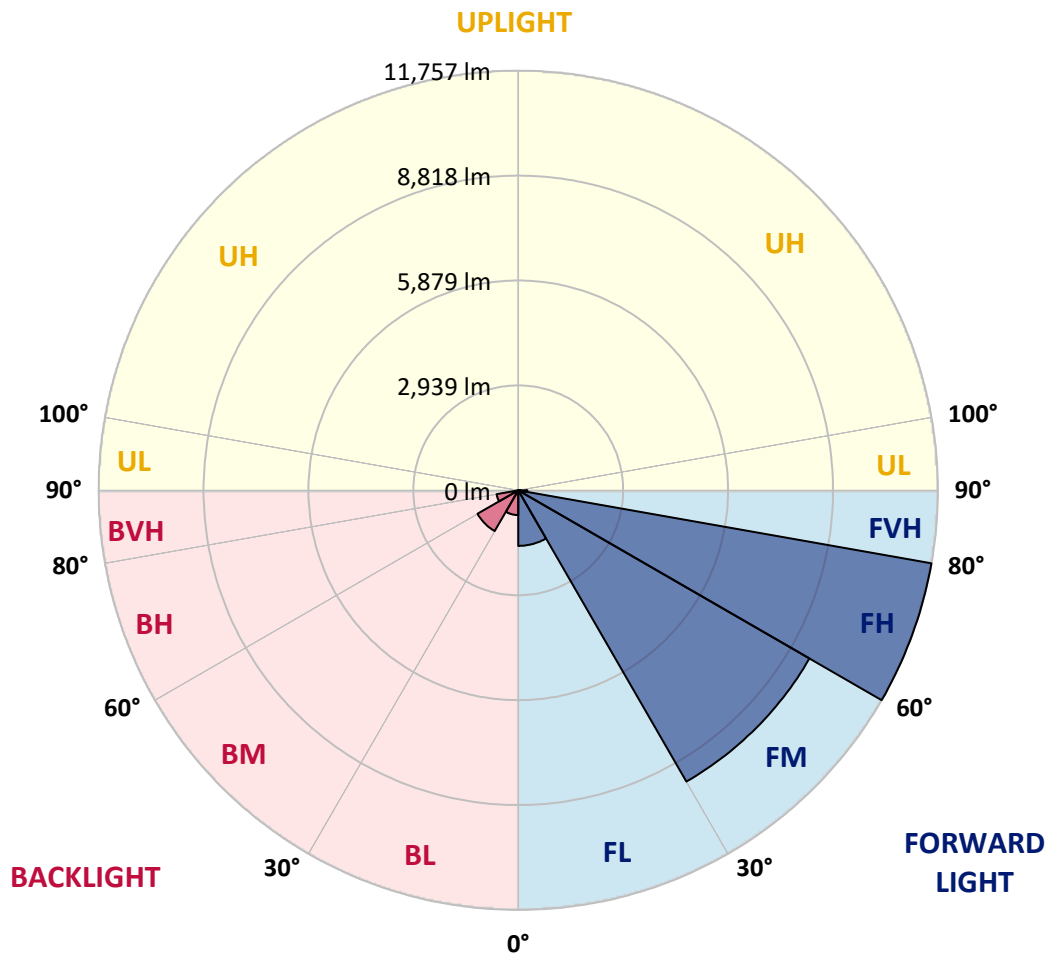


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1556.9	6.1			
FM (30°-60°)	9422.1	36.8			
FH (60°-80°)	11757.5	45.9			G4/12000
FVH (80°-90°)	256.9	1.0			G3/500
BL (0°-30°)	693.1	2.7	B2/1000		
BM (30°-60°)	1317.8	5.1	B2/2500		
BH (60°-80°)	616.6	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.2	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





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CATALOG NUMBER: GAN-SA5C-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3
2.5°	2852.1	2848.4	2831.6	2824.4	2783.6	2759.5	2749.9	2719.9	2676.7	2633.4	2585.3
5°	3176.4	3175.2	3144.0	3114.0	3037.1	2965.0	2951.8	2882.1	2784.8	2693.5	2602.2
7.5°	3508.0	3492.4	3461.1	3403.5	3291.8	3176.4	3165.6	3067.1	2928.9	2796.8	2665.8
10°	3789.1	3779.5	3738.7	3651.0	3520.0	3389.1	3375.9	3254.5	3098.3	2936.1	2769.2
12.5°	4007.8	4000.6	3946.5	3837.2	3697.8	3562.1	3544.0	3435.9	3268.9	3087.5	2890.5
15°	4141.1	4137.5	4071.4	3954.9	3818.0	3700.2	3684.6	3589.7	3434.7	3244.9	3022.6
17.5°	4172.4	4173.6	4105.1	3987.3	3874.4	3790.3	3778.3	3706.2	3576.5	3387.9	3154.8
20°	4102.7	4117.1	4055.8	3953.7	3884.0	3839.6	3830.0	3786.7	3677.4	3499.6	3260.5
22.5°	4004.2	4011.4	3969.3	3900.9	3872.0	3880.4	3875.6	3851.6	3759.1	3595.7	3365.0
25°	3944.1	3944.1	3918.9	3861.2	3880.4	3932.1	3933.3	3928.5	3855.2	3713.4	3492.4
27.5°	3941.7	3934.5	3905.7	3862.4	3915.3	3994.6	3999.4	4031.8	3986.1	3856.4	3651.0
30°	4037.8	4029.4	3968.1	3911.7	3978.9	4064.2	4076.3	4147.1	4124.3	4011.4	3827.6
32.5°	4262.5	4232.4	4096.7	4004.2	4054.6	4156.7	4172.4	4285.3	4321.3	4202.4	3998.2
35°	4570.0	4475.1	4279.3	4179.6	4184.4	4291.3	4305.7	4471.5	4578.4	4377.8	4130.3
37.5°	4994.1	4947.2	4628.9	4362.2	4383.8	4546.0	4588.0	4768.2	4738.2	4473.9	4280.5
40°	5924.0	5850.7	5511.9	4874.0	4574.8	4752.6	4765.8	4861.9	4864.3	4691.4	4592.8
42.5°	7190.2	7160.2	6803.4	5802.6	4950.8	4890.8	4914.8	5077.0	5258.4	5150.3	5145.5
45°	8592.2	8576.6	8198.2	7035.2	5711.3	5343.7	5373.7	5591.2	5938.4	5962.4	6115.0
47.5°	9720.3	9713.1	9495.6	8410.8	6875.4	6111.4	6121.0	6351.6	6961.9	7263.5	7507.4
50°	10748.7	10783.5	10611.7	9899.3	8461.3	7313.9	7291.1	7444.9	8425.2	8919.0	9221.7
52.5°	12178.3	12227.5	11745.8	11288.1	10125.2	8806.0	8788.0	8949.0	10184.0	10554.0	10608.1
55°	13440.9	13356.8	12976.0	12843.9	12154.3	10648.9	10644.1	10785.9	11885.2	12042.5	12142.3
57.5°	13998.4	13965.9	14149.7	14452.5	14279.5	12827.0	12816.2	12708.1	13407.3	13424.1	13730.5
60°	14350.4	14390.0	14953.5	15886.9	16318.2	15170.9	15101.2	14441.7	14861.0	14823.7	15151.7
62.5°	14086.1	14164.2	15178.1	16733.9	17844.0	17216.8	17118.3	16029.9	16103.2	15974.6	16279.8
65°	12682.9	12804.2	14465.7	16574.1	18600.8	18815.9	18716.2	17431.9	17089.5	16878.1	16708.7
67.5°	10298.1	10370.2	12105.0	15184.1	18259.6	19769.8	19749.3	18660.9	17834.3	16725.5	15411.2
69°	8510.5	8581.4	10251.3	13720.9	17508.8	19974.0	20013.6	19054.9	17692.6	15798.0	13654.8
70°	7208.2	7283.9	8839.7	12466.6	16637.8	19879.1	19950.0	19017.7	17286.5	14724.0	12113.4
72.5°	3780.7	3845.6	5442.2	8588.6	13563.5	18253.6	18468.7	17410.3	14653.1	10693.4	7162.6
75°	1188.2	1225.4	2125.2	4489.5	9286.6	14193.0	14242.2	13657.2	10405.1	5881.9	2983.0
77.5°	452.9	442.1	707.6	1654.3	4695.0	8937.0	9238.5	8534.5	5460.2	2079.6	688.4
80°	243.9	245.1	367.6	684.8	2008.7	4592.8	4847.5	4136.3	1940.2	648.7	158.6
82.5°	105.7	110.5	206.6	362.8	922.7	1693.9	1821.3	1516.1	741.2	436.1	58.9
85°	22.8	25.2	99.7	197.0	376.0	475.7	498.6	491.4	472.1	338.8	22.8
87.5°	0.0	0.0	44.5	70.9	94.9	108.1	94.9	123.7	260.7	228.3	12.0
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°	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3	2567.3
2.5°	2569.7	2548.1	2510.9	2470.0	2441.2	2411.2	2387.1	2376.3	2364.3	2355.9	2366.7
5°	2564.9	2522.9	2450.8	2381.1	2330.7	2289.8	2256.2	2243.0	2229.7	2220.1	2218.9
7.5°	2607.0	2548.1	2437.6	2335.5	2257.4	2202.1	2156.5	2137.2	2121.6	2114.4	2108.4
10°	2687.5	2611.8	2464.0	2330.7	2229.7	2136.0	2037.5	1961.8	1912.6	1889.8	1881.3
12.5°	2792.0	2697.1	2514.5	2355.9	2209.3	2029.1	1820.1	1639.9	1523.3	1484.9	1462.1
15°	2914.5	2796.8	2580.5	2388.3	2134.8	1805.7	1451.3	1215.8	1107.7	1086.0	1062.0
17.5°	3032.3	2902.5	2659.8	2394.3	1971.4	1442.8	1063.2	903.4	861.4	875.8	879.4
20°	3135.6	3007.0	2737.9	2341.5	1674.7	1082.4	822.9	783.3	798.9	826.5	831.3
22.5°	3240.1	3107.9	2810.0	2202.1	1295.1	821.7	741.2	750.9	766.5	794.1	798.9
25°	3367.4	3230.5	2877.3	1946.2	971.9	699.2	704.0	718.4	734.0	759.3	761.7
27.5°	3514.0	3385.5	2921.7	1613.4	720.8	642.7	658.4	680.0	695.6	719.6	724.4
30°	3708.6	3589.7	2936.1	1268.6	604.3	592.3	599.5	625.9	648.7	670.4	674.0
32.5°	3891.2	3791.5	2888.1	957.5	559.8	545.4	545.4	561.0	587.5	607.9	612.7
35°	4059.4	3994.6	2734.3	700.4	526.2	502.2	490.2	490.2	507.0	523.8	528.6
37.5°	4281.7	4279.3	2485.6	558.6	493.8	466.1	440.9	421.7	415.7	419.3	421.7
40°	4662.5	4666.1	2161.3	501.0	466.1	428.9	390.4	355.6	323.2	312.4	311.2
42.5°	5257.2	5203.1	1821.3	473.3	442.1	390.4	332.8	285.9	235.5	219.9	218.6
45°	6201.5	5880.7	1460.9	448.1	416.9	347.2	275.1	211.4	170.6	158.6	158.6
47.5°	7577.0	6770.9	1131.7	420.5	383.2	297.9	207.8	152.6	124.9	118.9	120.1
50°	8999.5	7643.1	867.4	385.6	342.4	246.3	153.8	110.5	94.9	94.9	96.1
52.5°	10260.9	8282.2	676.4	348.4	291.9	193.4	116.5	86.5	79.3	78.1	79.3
55°	11441.9	8694.3	517.8	305.1	231.9	144.2	88.9	70.9	66.1	63.7	62.5
57.5°	12580.8	8898.6	388.0	246.3	168.2	104.5	70.9	60.1	55.3	51.7	50.5
60°	13338.8	8732.8	266.7	181.4	116.5	75.7	58.9	51.7	45.7	42.0	40.8
62.5°	13766.5	8279.8	171.8	130.9	82.9	56.5	46.9	43.2	34.8	31.2	31.2
65°	13593.5	7532.6	120.1	93.7	60.1	42.0	34.8	34.8	25.2	20.4	19.2
67.5°	12046.1	6363.7	91.3	69.7	43.2	31.2	26.4	30.0	15.6	9.6	9.6
69°	10364.2	5274.0	78.1	57.7	36.0	25.2	22.8	27.6	10.8	7.2	6.0
70°	9007.9	4549.6	70.9	50.5	30.0	21.6	20.4	26.4	10.8	6.0	4.8
72.5°	5389.3	2537.3	54.1	36.0	19.2	16.8	16.8	30.0	10.8	6.0	4.8
75°	2178.1	893.8	39.6	25.2	14.4	14.4	20.4	38.4	9.6	4.8	3.6
77.5°	493.8	195.8	22.8	15.6	9.6	14.4	24.0	30.0	6.0	2.4	0.0
80°	120.1	48.1	14.4	9.6	6.0	10.8	18.0	16.8	1.2	0.0	0.0
82.5°	39.6	16.8	6.0	4.8	1.2	3.6	8.4	4.8	0.0	0.0	0.0
85°	16.8	9.6	2.4	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
87.5°	10.8	3.6	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)