

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: P319417

Luminaire Tested: **GAN-SA3D-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23205 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

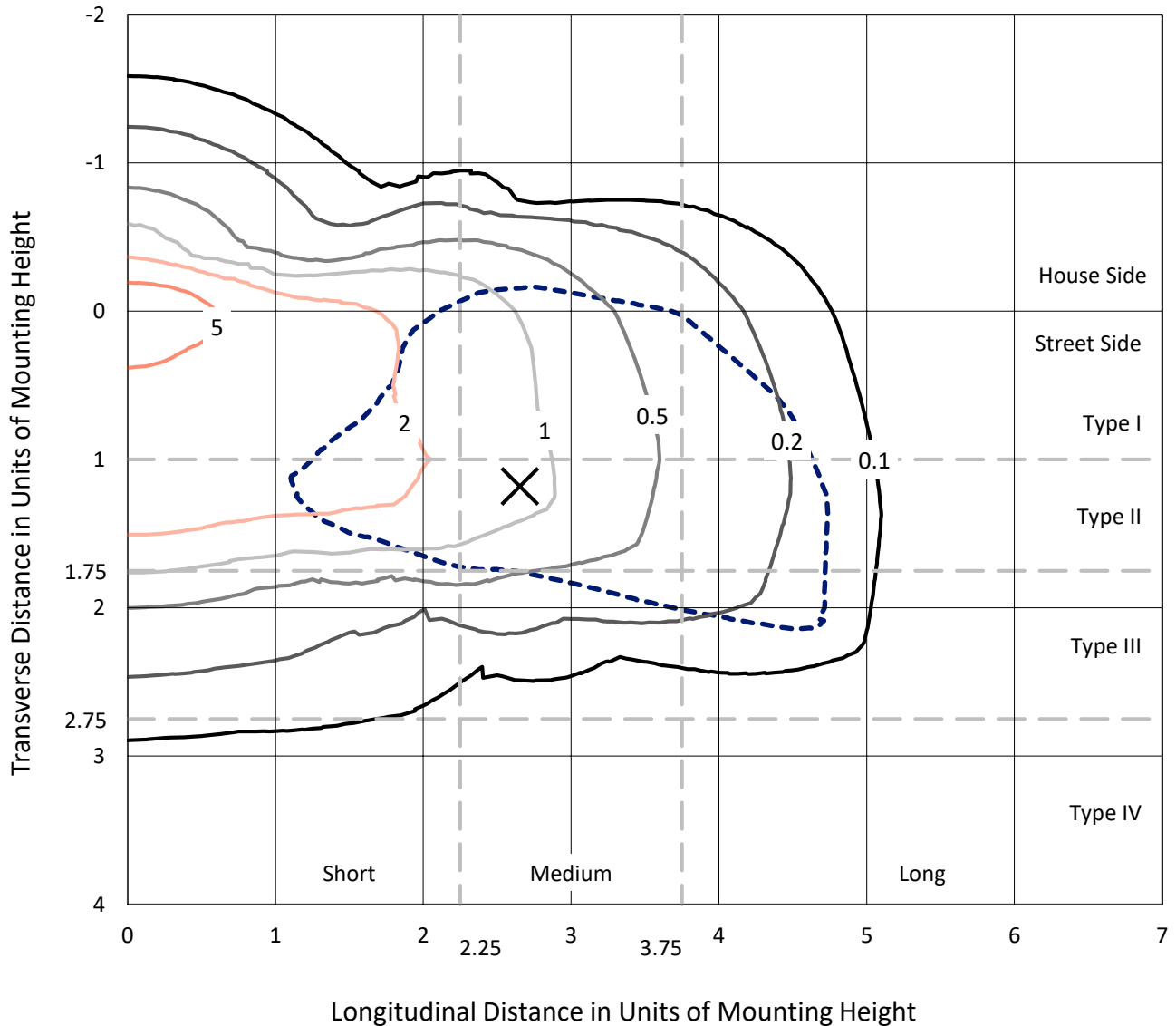
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319417
 CATALOG NUMBER: GAN-SA3D-750-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

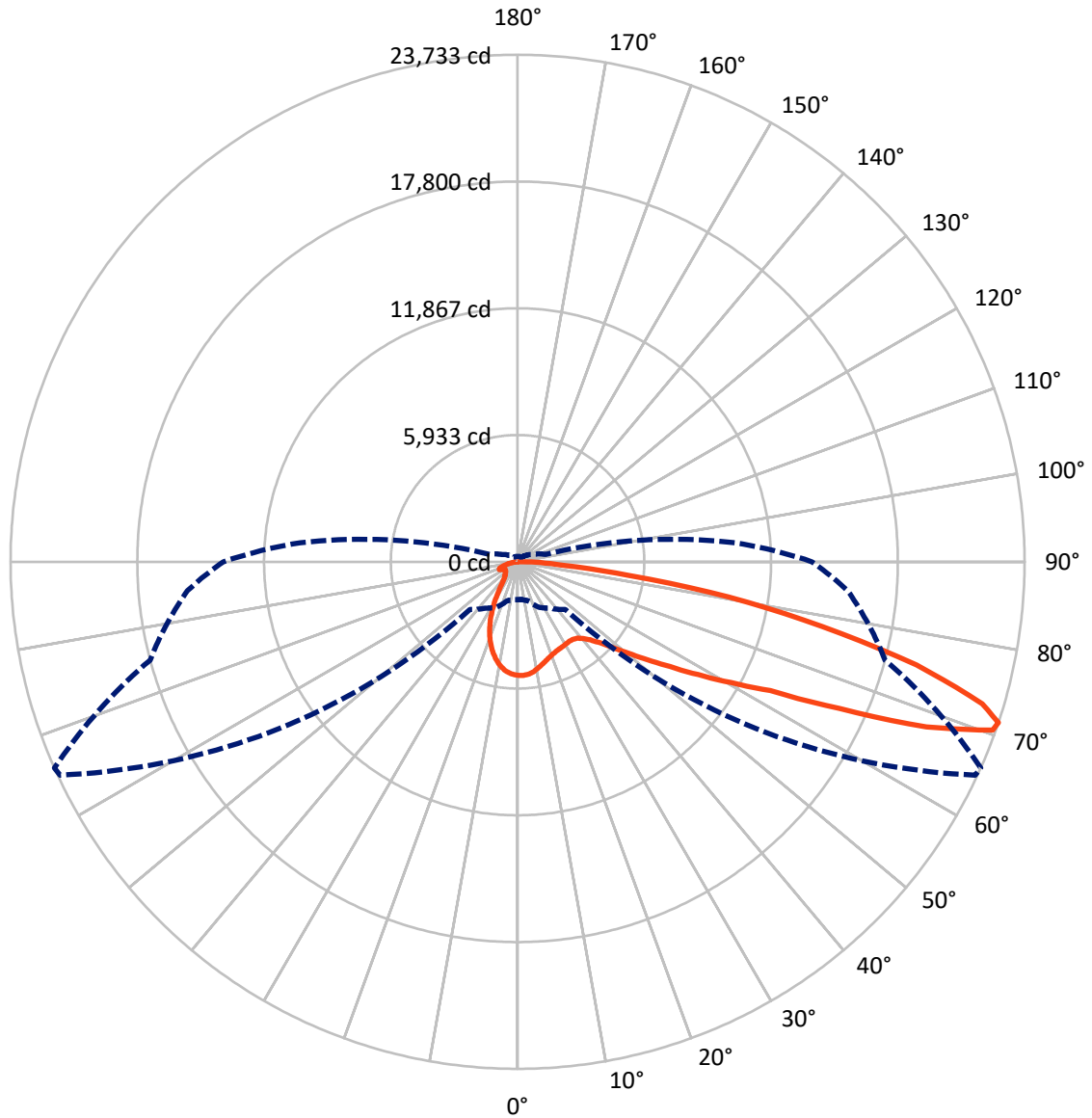
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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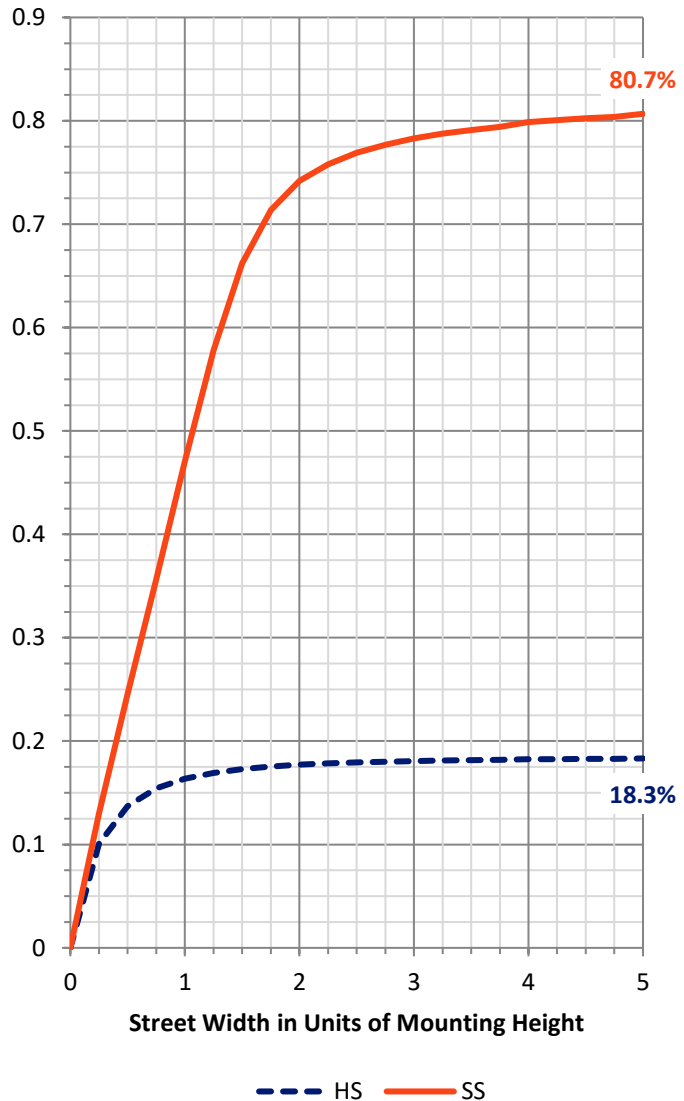
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4300.5	0.0	4300.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	18904.5	0.0	18904.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	23205.0	0.0	23205.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.9	2.0
10°-20°	1122.3	4.8
20°-30°	1507.5	6.5
30°-40°	1983.1	8.5
40°-50°	2884.9	12.4
50°-60°	4506.5	19.4
60°-70°	5645.1	24.3
70°-80°	4305.9	18.6
80°-90°	781.9	3.4
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°	23205.0	100.0
0°-180°	23205.0	100.0

Coefficient of Utilization

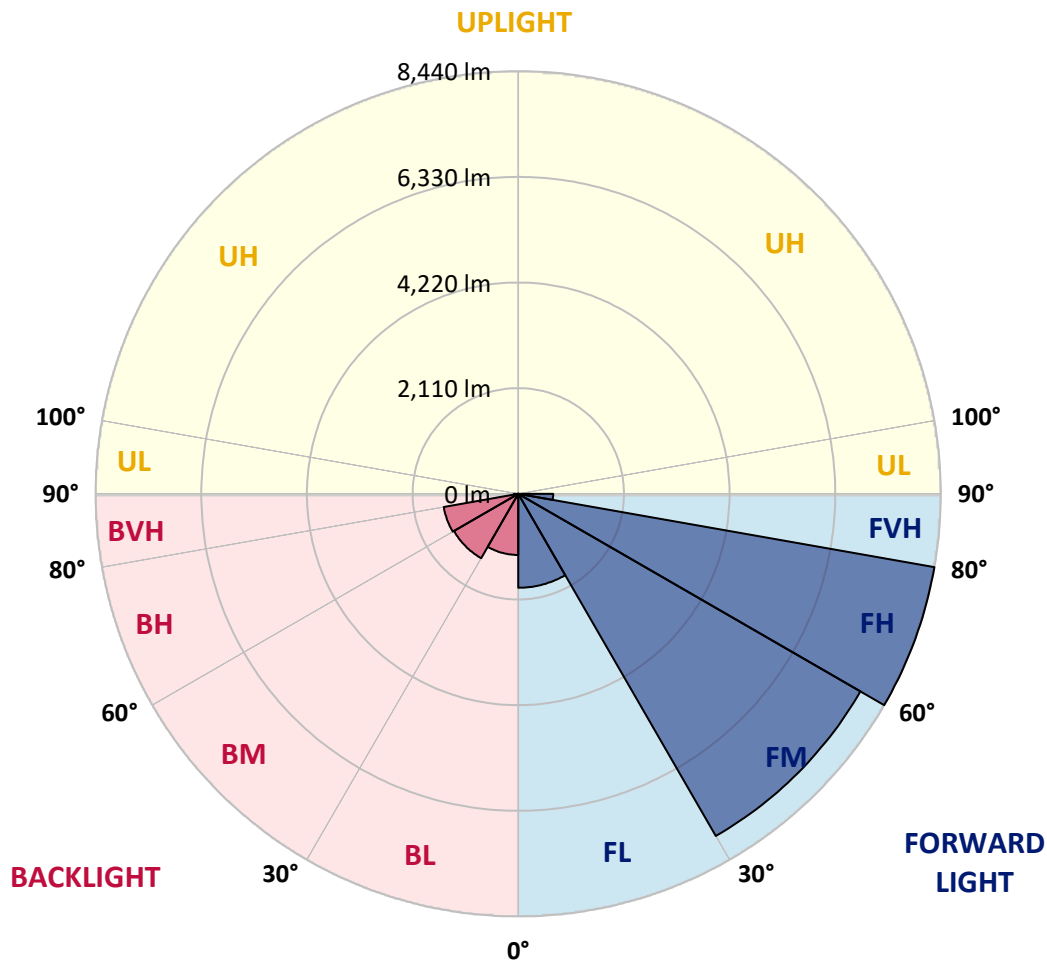


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 CATALOG NUMBER: GAN-SA3D-750-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1876.4	8.1			
FM (30°-60°)	7890.9	34.0			
FH (60°-80°)	8439.9	36.4			G4/12000
FVH (80°-90°)	697.3	3.0			G4/750
BL (0°-30°)	1221.2	5.3	B3/2500		
BM (30°-60°)	1483.5	6.4	B2/2500		
BH (60°-80°)	1511.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	84.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5315.8	5315.8	5315.8	5315.8	5315.8	5315.8	5315.8	5315.8	5315.8	5315.8	5315.8
2.5°	5217.3	5209.3	5233.3	5258.1	5267.7	5283.8	5307.8	5321.4	5320.6	5323.0	5315.0
5°	4871.2	4860.7	4908.8	4948.1	5023.4	5108.3	5211.7	5285.4	5287.0	5328.6	5339.9
7.5°	4543.5	4536.3	4591.6	4654.8	4742.2	4872.0	5039.4	5198.0	5207.7	5320.6	5359.9
10°	4280.7	4279.1	4332.8	4401.7	4503.4	4648.4	4840.7	5073.1	5087.5	5282.2	5363.1
12.5°	4075.6	4078.8	4125.3	4203.8	4311.1	4462.6	4670.9	4932.9	4956.1	5221.3	5344.7
15°	3924.2	3937.0	3974.6	4054.0	4159.7	4313.5	4527.5	4803.1	4838.3	5153.2	5334.2
17.5°	3837.6	3852.1	3878.5	3944.2	4043.5	4191.8	4394.5	4696.5	4728.6	5101.1	5335.0
20°	3812.0	3824.0	3839.2	3879.3	3963.4	4098.0	4289.5	4600.4	4634.8	5059.4	5343.1
22.5°	3862.5	3871.3	3872.9	3869.7	3921.0	4030.7	4213.4	4529.9	4566.7	5032.2	5348.7
25°	3970.6	3982.7	3973.8	3944.2	3927.4	3994.7	4174.1	4483.4	4520.2	5012.2	5337.4
27.5°	4133.3	4134.9	4127.7	4089.2	4009.9	3998.7	4162.1	4456.2	4491.4	4988.9	5314.2
30°	4354.4	4364.8	4352.0	4299.9	4170.1	4062.8	4176.5	4429.7	4461.8	4959.3	5276.6
32.5°	4613.2	4638.8	4638.0	4583.5	4397.7	4206.2	4235.8	4413.7	4438.5	4928.0	5230.9
35°	4881.6	4916.8	4982.5	4959.3	4729.4	4432.9	4349.6	4439.3	4456.2	4924.0	5198.8
37.5°	5160.4	5195.6	5331.0	5393.5	5124.3	4757.4	4529.1	4529.9	4537.9	4972.9	5196.4
40°	5452.0	5489.7	5693.2	5855.8	5636.3	5168.4	4818.3	4718.9	4710.1	5093.1	5243.7
42.5°	5860.6	5894.3	6138.6	6346.1	6204.3	5694.8	5218.1	5010.6	4992.1	5328.6	5395.1
45°	6377.4	6406.2	6665.8	6887.7	6814.8	6295.7	5720.4	5412.0	5408.8	5721.2	5702.0
47.5°	6991.9	7014.3	7247.5	7462.2	7488.6	6987.1	6351.7	6031.3	5979.2	6259.6	6177.1
50°	7632.0	7656.9	7815.5	8046.2	8242.5	7912.4	7164.1	6790.0	6720.3	6970.2	6850.1
52.5°	8055.8	8088.7	8226.5	8518.9	9090.2	8926.7	8124.7	7709.7	7604.0	7831.5	7739.4
55°	7866.8	7940.5	8151.2	8619.9	9768.0	10476.2	9309.7	8782.5	8663.1	8852.2	8797.7
57.5°	7007.1	7108.1	7395.7	8119.1	9863.3	11841.4	11101.1	10046.0	9961.8	9907.4	9932.2
60°	5436.0	5532.9	5889.5	6832.4	9199.1	12838.1	13797.1	11603.5	11481.7	10966.5	10989.0
62.5°	3847.3	3798.4	4042.7	4732.6	7475.0	12955.0	16864.8	13686.5	13285.9	12085.0	11986.4
65°	2933.9	2922.7	3032.5	3252.0	4527.5	11555.4	18692.3	17187.7	16562.0	13400.5	13168.2
67.5°	2410.7	2390.7	2498.9	2818.5	2915.5	7455.0	18732.3	21249.6	20635.1	15038.1	14535.0
70°	1982.1	1959.7	2060.6	2473.2	2694.4	3780.8	15765.6	23628.3	23595.5	17111.6	15566.9
71°	1777.0	1761.0	1882.0	2340.2	2647.1	3151.0	13612.0	23634.8	23733.3	17813.4	15506.0
72.5°	1446.9	1452.5	1580.7	2083.1	2611.8	2782.5	10004.3	22533.1	22741.4	18482.4	14952.4
75°	961.4	966.2	1134.5	1602.4	2532.5	2722.4	5498.5	18907.8	19290.8	18081.8	13644.1
77.5°	645.7	644.1	758.7	1099.2	2206.4	2722.4	3223.9	14141.6	14562.2	14387.6	10518.7
80°	444.7	441.4	522.4	758.7	1670.5	2755.3	2492.5	9910.6	10038.0	7769.8	4275.1
82.5°	272.4	274.8	341.3	536.0	1136.9	2479.6	2353.1	5403.9	5265.3	2179.2	1068.0
85°	156.2	155.4	217.9	362.9	729.9	2092.7	2294.6	2325.8	2133.5	656.2	386.2
87.5°	56.1	60.1	117.0	201.1	418.2	1457.3	1946.9	1209.8	1090.4	296.4	174.7
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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 CATALOG NUMBER: GAN-SA3D-750-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5315.8	5315.8	5315.8	5315.8	5315.8	5315.8	5315.8	5315.8	5315.8	5315.8	5315.8
2.5°	5309.4	5314.2	5308.6	5276.6	5249.3	5205.3	5180.4	5146.0	5135.6	5130.7	5143.6
5°	5329.4	5331.0	5283.8	5199.6	5105.1	4993.7	4913.6	4815.1	4768.6	4748.6	4761.4
7.5°	5347.9	5340.7	5237.3	5076.3	4901.6	4707.7	4535.5	4377.6	4285.5	4247.8	4251.1
10°	5350.3	5319.8	5154.0	4904.8	4634.0	4349.6	4085.2	3841.6	3687.8	3587.7	3618.1
12.5°	5325.4	5274.2	5031.4	4682.9	4307.1	3919.4	3562.0	3196.7	2977.2	2875.4	2878.6
15°	5306.2	5213.3	4880.8	4421.7	3917.0	3403.4	2915.5	2486.1	2252.1	2148.0	2099.1
17.5°	5290.2	5147.6	4706.1	4127.7	3456.3	2804.9	2218.5	1835.5	1707.3	1676.9	1664.0
20°	5267.7	5077.9	4511.4	3787.2	2931.5	2135.1	1620.0	1430.9	1431.7	1467.0	1471.8
22.5°	5236.5	4998.5	4303.9	3405.0	2368.3	1555.1	1269.9	1215.4	1270.7	1338.0	1350.0
25°	5190.0	4904.8	4073.2	2982.8	1805.9	1195.4	1084.8	1082.4	1149.7	1220.2	1230.6
27.5°	5124.3	4782.2	3816.8	2529.3	1330.8	1015.9	971.8	988.7	1038.3	1089.6	1093.6
30°	5036.2	4639.6	3534.0	2051.0	1043.1	904.5	899.7	914.9	945.4	981.4	984.6
32.5°	4939.3	4494.6	3232.0	1587.9	893.3	844.4	849.2	856.5	870.9	885.3	888.5
35°	4851.1	4346.4	2922.7	1206.6	822.0	805.2	802.0	800.4	802.0	797.2	798.0
37.5°	4794.2	4223.8	2600.6	960.6	781.1	770.7	761.1	749.1	735.5	727.5	729.1
40°	4773.4	4132.5	2274.5	830.0	747.5	740.3	721.9	696.2	680.2	675.4	675.4
42.5°	4829.5	4085.2	1959.7	764.3	719.5	707.4	677.0	647.4	635.3	634.5	633.7
45°	5001.0	4104.4	1660.0	728.3	693.8	670.6	630.5	605.7	597.7	599.3	598.5
47.5°	5308.6	4225.4	1403.7	704.2	668.2	637.7	592.9	572.8	563.2	563.2	564.0
50°	5831.8	4508.2	1199.4	684.2	646.6	607.3	565.6	540.8	528.0	527.2	527.2
52.5°	6593.7	5014.6	1072.0	667.4	622.5	580.1	538.4	507.1	491.9	488.7	487.1
55°	7548.7	5740.4	1036.7	656.2	590.5	550.4	505.5	474.3	457.5	450.3	449.5
57.5°	8616.7	6623.3	1106.4	642.5	557.6	515.2	469.5	439.8	422.2	413.4	412.6
60°	9697.5	7587.2	1390.8	623.3	530.4	476.7	432.6	405.4	387.8	378.2	376.6
62.5°	10779.9	8603.0	1971.7	621.7	511.2	439.8	395.0	371.7	354.9	344.5	342.1
65°	12000.8	9715.1	2631.9	664.2	504.7	406.2	356.5	338.1	323.7	314.1	313.3
67.5°	13402.9	10970.5	2568.6	751.5	526.4	375.8	320.5	306.1	295.6	287.6	286.8
70°	14060.7	10774.2	1596.7	813.2	556.8	346.1	286.0	275.6	267.6	262.0	259.6
71°	13785.1	10230.2	1338.8	806.0	553.6	333.3	272.4	264.4	256.4	251.6	249.2
72.5°	13033.6	9329.7	1116.8	749.9	517.6	310.1	254.8	246.8	239.6	233.9	232.3
75°	11695.6	8332.3	894.1	599.3	412.6	262.0	223.5	214.7	209.1	205.9	202.7
77.5°	8597.4	5946.3	691.4	473.5	303.6	213.9	190.7	184.3	178.7	173.9	171.5
80°	3293.6	2303.4	465.5	353.3	222.7	169.0	153.8	150.6	145.0	141.8	141.8
82.5°	886.9	688.2	248.4	213.9	149.0	123.4	117.8	116.2	111.4	105.0	105.8
85°	358.9	303.6	139.4	117.8	91.3	72.9	79.3	80.1	74.5	66.5	67.3
87.5°	157.8	129.0	77.7	52.1	40.1	28.0	36.1	36.1	32.8	27.2	24.8
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)