

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: P323496

Luminaire Tested: **GAN-SA2D-730-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323496  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2D-730-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12353 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

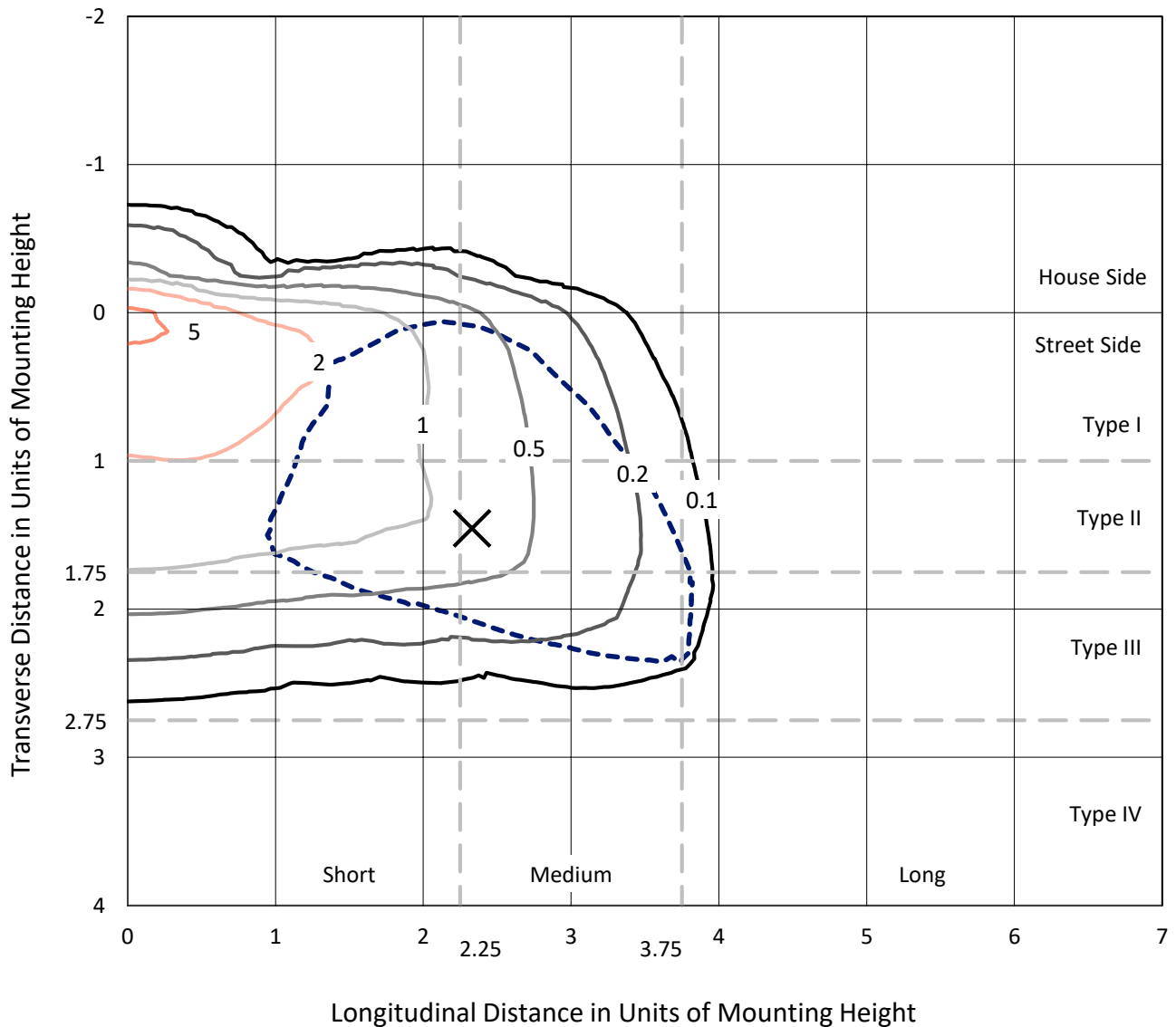
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P323496  
 CATALOG NUMBER: GAN-SA2D-730-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

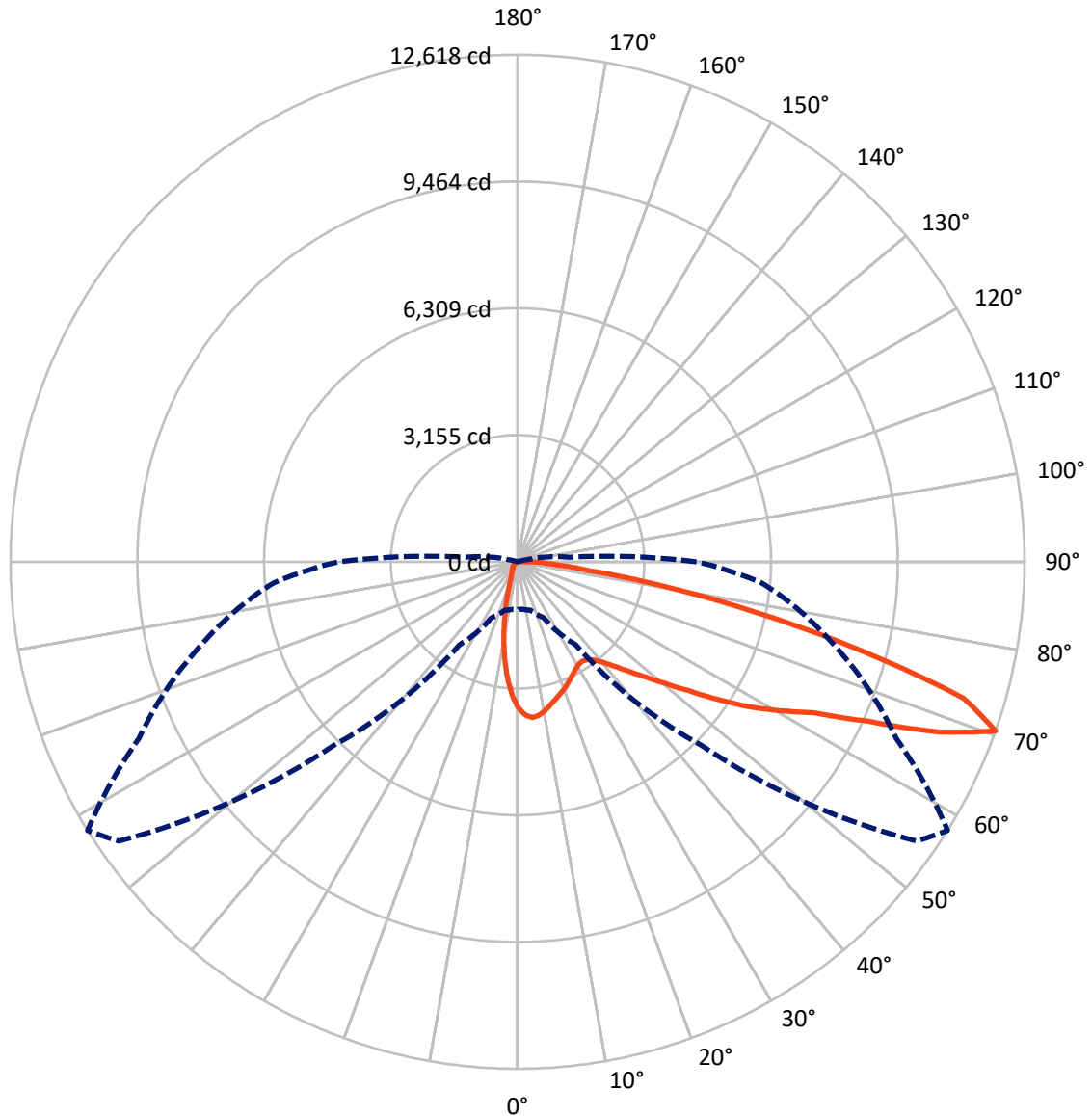
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type III - Medium - N/A

REPORT NUMBER: P323496  
CATALOG NUMBER: GAN-SA2D-730-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P323496  
 CATALOG NUMBER: GAN-SA2D-730-U-SL3-HSS

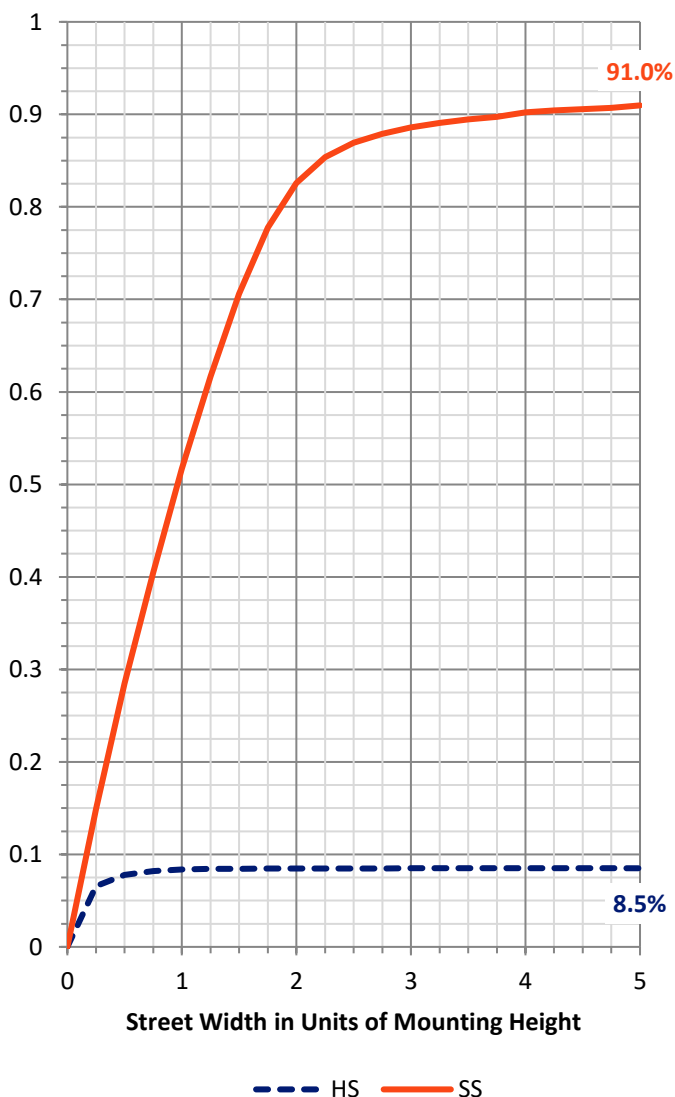
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1057.1	0.0	1057.1
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	11295.9	0.0	11295.9
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	12353.0	0.0	12353.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.4	2.4
10°-20°	626.3	5.1
20°-30°	823.3	6.7
30°-40°	1090.4	8.8
40°-50°	1629.8	13.2
50°-60°	2610.9	21.1
60°-70°	3291.0	26.6
70°-80°	1775.1	14.4
80°-90°	207.8	1.7
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°	12353.0	100.0
0°-180°	12353.0	100.0

**Coefficient of Utilization**

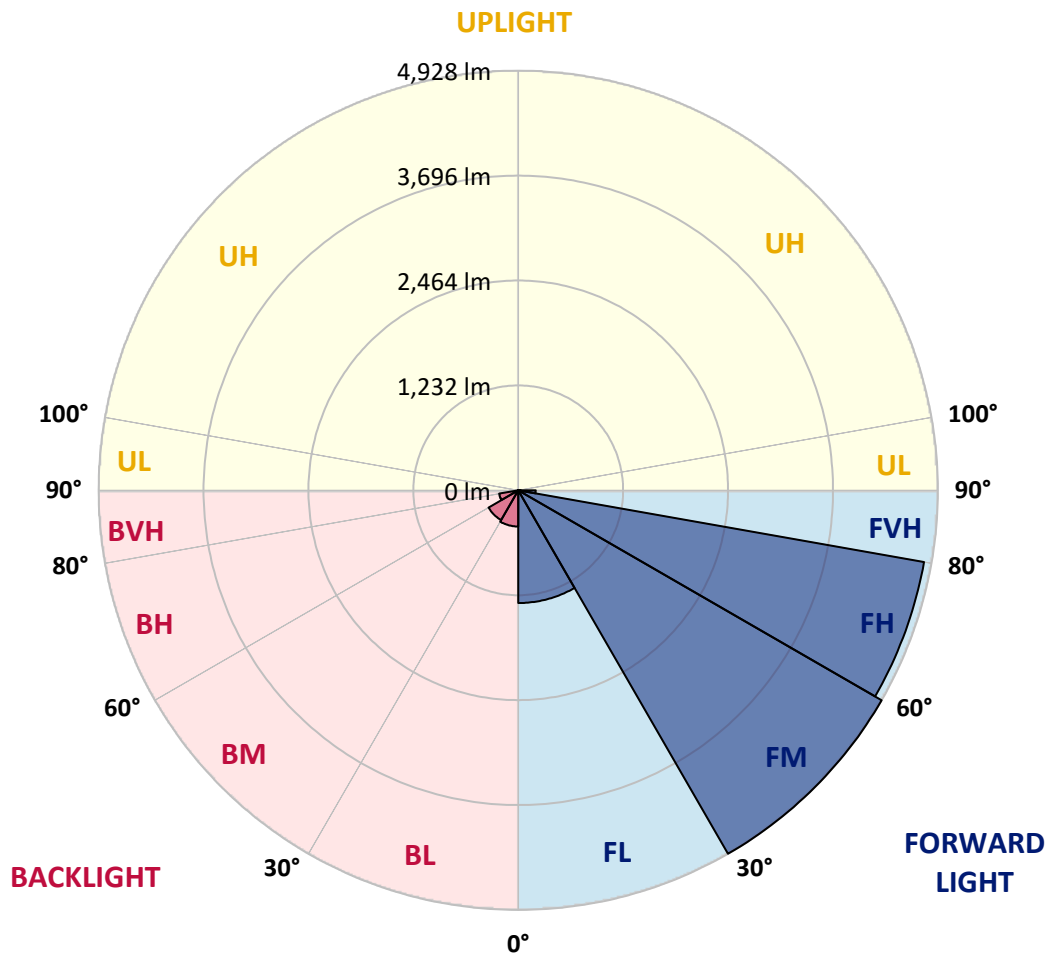


REPORT NUMBER: P323496  
 CATALOG NUMBER: GAN-SA2D-730-U-SL3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1323.3	10.7			
FM (30°-60°)	4927.8	39.9			
FH (60°-80°)	4838.8	39.2			G2/5000
FVH (80°-90°)	206.0	1.7			G2/225
BL (0°-30°)	424.7	3.4	B1/500		
BM (30°-60°)	403.3	3.3	B1/1000		
BH (60°-80°)	227.3	1.8	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





REPORT NUMBER: P323496

CATALOG NUMBER: GAN-SA2D-730-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0
2.5°	3951.6	3941.8	3938.2	3932.0	3908.4	3885.3	3839.6	3826.7	3798.0	3729.7	3657.2
5°	3954.6	3954.1	3964.9	3962.3	3954.1	3943.3	3910.5	3893.5	3844.7	3747.1	3614.6
7.5°	3764.1	3773.8	3798.0	3817.5	3840.1	3869.4	3873.5	3857.0	3817.0	3711.7	3536.0
10°	3508.3	3523.7	3557.6	3596.1	3655.2	3713.7	3766.1	3764.1	3750.2	3646.4	3441.5
12.5°	3252.0	3269.9	3309.0	3366.0	3449.7	3545.3	3638.7	3651.6	3674.7	3587.9	3354.2
15°	3027.5	3042.9	3081.4	3151.3	3255.0	3383.5	3520.6	3544.2	3603.8	3542.2	3281.2
17.5°	2836.9	2846.7	2874.9	2952.5	3072.7	3228.3	3406.6	3452.8	3541.7	3506.2	3218.1
20°	2703.9	2705.4	2723.9	2778.4	2898.6	3072.7	3288.4	3354.7	3475.9	3475.4	3152.8
22.5°	2638.1	2633.0	2636.6	2667.9	2756.3	2924.2	3170.3	3248.9	3416.8	3449.2	3086.6
25°	2625.8	2621.7	2611.4	2615.5	2669.0	2794.3	3051.1	3142.0	3365.0	3433.3	3029.0
27.5°	2664.3	2668.4	2651.0	2632.5	2636.6	2710.1	2945.3	3050.6	3322.8	3433.3	2988.5
30°	2741.9	2744.0	2731.1	2707.0	2674.6	2686.4	2871.9	2977.2	3301.8	3456.9	2962.8
32.5°	2827.7	2839.0	2837.4	2817.9	2771.7	2723.9	2854.4	2950.4	3300.2	3509.3	2960.2
35°	2934.0	2946.8	2968.4	2964.3	2916.0	2837.4	2914.0	2989.5	3330.6	3595.6	2987.9
37.5°	3047.0	3066.5	3112.8	3134.8	3103.5	3014.7	3047.5	3101.5	3411.7	3735.3	3058.3
40°	3156.4	3178.5	3262.7	3349.6	3325.9	3234.5	3249.9	3293.1	3556.0	3936.2	3191.9
42.5°	3263.8	3296.6	3420.4	3563.2	3591.5	3518.5	3526.8	3561.2	3770.2	4212.5	3410.2
45°	3392.2	3429.2	3612.5	3788.7	3864.2	3832.4	3867.3	3889.9	4050.2	4577.7	3704.5
47.5°	3580.7	3623.3	3848.3	4049.2	4181.7	4202.2	4272.6	4287.5	4404.1	5003.0	4088.2
50°	3948.5	3960.3	4163.7	4346.0	4537.1	4660.4	4740.5	4751.8	4832.5	5467.9	4567.4
52.5°	4411.3	4419.0	4534.0	4656.3	4873.6	5125.3	5312.8	5328.7	5345.6	5920.9	5040.5
55°	4871.0	4870.0	4946.0	5017.9	5266.5	5632.2	6039.1	6048.8	5927.1	6350.9	5402.1
57.5°	5158.1	5185.9	5301.5	5393.9	5741.1	6210.1	6774.6	6810.6	6537.8	6669.3	5759.6
60°	5066.7	5080.1	5336.4	5678.5	6332.4	7031.4	7518.9	7528.2	6997.0	6987.3	6211.7
62.5°	4316.8	4324.0	4726.7	5431.9	6631.8	8096.8	8416.8	8266.3	7525.1	7428.5	6752.5
65°	2958.7	3005.4	3341.9	4213.5	6081.7	8765.0	9806.7	9557.6	8330.0	8064.4	7241.5
67.5°	1742.3	1732.6	1899.0	2541.1	4466.8	8321.2	11565.0	11317.4	9427.7	8490.2	7098.2
70°	1190.1	1183.5	1247.2	1538.4	2521.5	6455.1	12118.2	12618.0	10396.9	8203.6	6108.9
72.5°	849.6	853.2	947.2	1195.3	1583.1	3761.0	10421.1	11604.0	10093.4	7151.6	4643.5
75°	576.8	586.6	721.2	980.6	1387.9	1913.4	7395.1	8821.0	8219.0	5197.7	2669.0
77.5°	310.2	321.0	479.8	790.0	1254.9	1329.3	4757.0	6070.9	5162.8	2336.6	773.6
80°	129.4	135.6	224.5	574.3	1084.3	1167.5	2798.9	3681.4	2200.0	460.8	172.6
82.5°	56.0	59.1	93.5	342.6	810.6	985.7	1481.9	1771.1	666.7	101.2	86.8
85°	10.8	11.3	38.5	181.3	517.3	556.3	960.5	941.5	299.5	43.7	63.2
87.5°	0.0	0.0	9.2	57.0	152.0	303.1	586.1	578.9	101.7	21.1	23.6
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: P323496  
 CATALOG NUMBER: GAN-SA2D-730-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0
2.5°	3620.3	3584.8	3510.3	3418.4	3348.0	3270.5	3208.8	3130.7	3096.8	3098.4	3079.9
5°	3539.1	3466.2	3301.3	3093.2	2933.0	2767.6	2625.3	2483.5	2399.8	2372.6	2346.9
7.5°	3423.0	3307.4	3044.4	2723.9	2452.7	2187.7	1957.0	1754.1	1625.7	1563.1	1539.9
10°	3292.0	3129.7	2749.1	2326.9	1939.6	1581.0	1282.1	1022.2	918.4	848.0	830.1
12.5°	3177.0	2957.1	2460.4	1919.5	1459.8	1027.3	742.2	580.4	510.1	482.3	477.7
15°	3068.6	2795.8	2182.5	1550.7	1010.9	632.3	472.1	417.1	400.7	396.0	396.0
17.5°	2966.4	2642.3	1910.8	1187.6	668.8	443.3	390.9	378.6	373.4	372.9	373.4
20°	2859.5	2488.7	1643.7	870.1	466.9	375.5	361.1	354.4	352.9	352.9	352.9
22.5°	2757.3	2335.1	1383.8	621.5	374.5	342.6	335.4	330.8	329.3	328.7	327.7
25°	2659.2	2189.2	1130.0	439.2	328.7	313.8	307.7	301.5	296.9	294.3	292.8
27.5°	2578.6	2059.3	893.8	352.4	296.9	284.1	276.3	267.1	255.8	250.7	248.6
30°	2514.3	1940.6	688.8	297.4	267.1	254.3	242.4	226.5	210.1	201.4	200.8
32.5°	2464.0	1824.0	522.9	263.0	240.4	224.5	207.5	187.5	168.5	158.7	158.2
35°	2439.4	1721.3	399.6	237.8	216.8	196.7	175.7	153.6	135.1	125.8	124.8
37.5°	2455.8	1634.5	311.8	216.8	196.7	173.6	149.0	125.8	109.4	101.2	100.7
40°	2515.9	1579.0	253.2	198.8	179.8	151.5	124.8	103.2	89.4	82.7	82.2
42.5°	2643.8	1558.4	216.2	183.9	163.3	131.0	103.8	85.3	72.4	67.8	66.8
45°	2857.5	1588.7	191.1	169.5	146.4	111.5	85.8	69.9	58.6	55.0	54.4
47.5°	3142.0	1668.4	173.1	155.6	131.0	94.0	71.4	56.5	47.8	44.2	43.7
50°	3508.8	1794.7	158.2	141.8	116.6	79.6	59.1	44.7	37.0	34.4	34.4
52.5°	3907.9	1945.2	144.9	128.9	102.2	66.3	47.8	34.4	29.3	26.2	26.2
55°	4237.7	2076.7	130.5	119.2	84.8	55.0	36.5	26.2	21.6	20.0	20.0
57.5°	4566.9	2216.9	114.0	102.2	67.8	44.7	27.7	19.5	15.9	14.9	14.9
60°	4993.8	2388.5	98.1	83.2	53.4	33.9	20.5	13.9	11.8	11.3	11.3
62.5°	5463.3	2489.2	83.7	66.8	41.6	25.2	14.9	9.2	8.7	8.7	8.2
65°	5750.4	2346.9	70.4	53.4	32.4	19.0	9.8	6.7	7.7	7.2	6.2
67.5°	5384.2	1837.4	57.5	41.6	25.2	14.4	6.2	4.6	8.2	6.7	5.1
70°	4458.0	1286.2	44.7	29.3	20.0	12.3	4.1	3.1	8.7	6.7	4.1
72.5°	3336.2	860.9	35.4	19.5	14.9	10.8	3.6	1.5	7.7	5.7	3.6
75°	1823.0	346.7	28.3	12.3	9.2	7.7	2.6	1.0	5.1	4.1	2.6
77.5°	479.8	91.4	20.5	8.2	5.1	3.1	1.5	0.5	2.6	2.1	1.0
80°	122.3	35.4	13.4	5.7	3.6	1.5	0.0	0.0	0.5	0.0	0.0
82.5°	65.2	14.9	8.2	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.3	9.8	4.6	2.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.0	3.1	1.5	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)