

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: P319336

Luminaire Tested: **GAN-SA2D-730-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319336  
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-SA2D-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 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: 14163 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

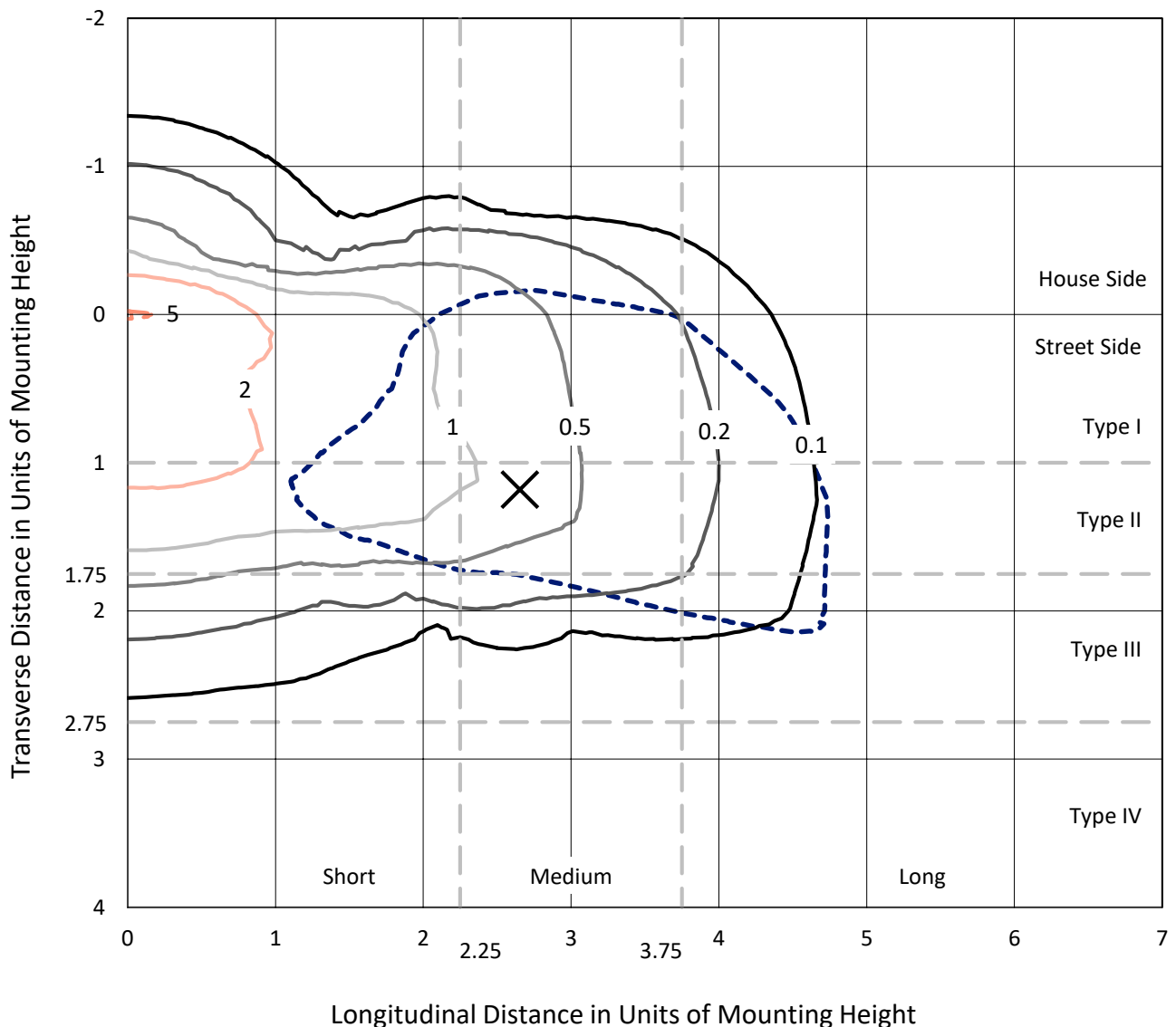
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

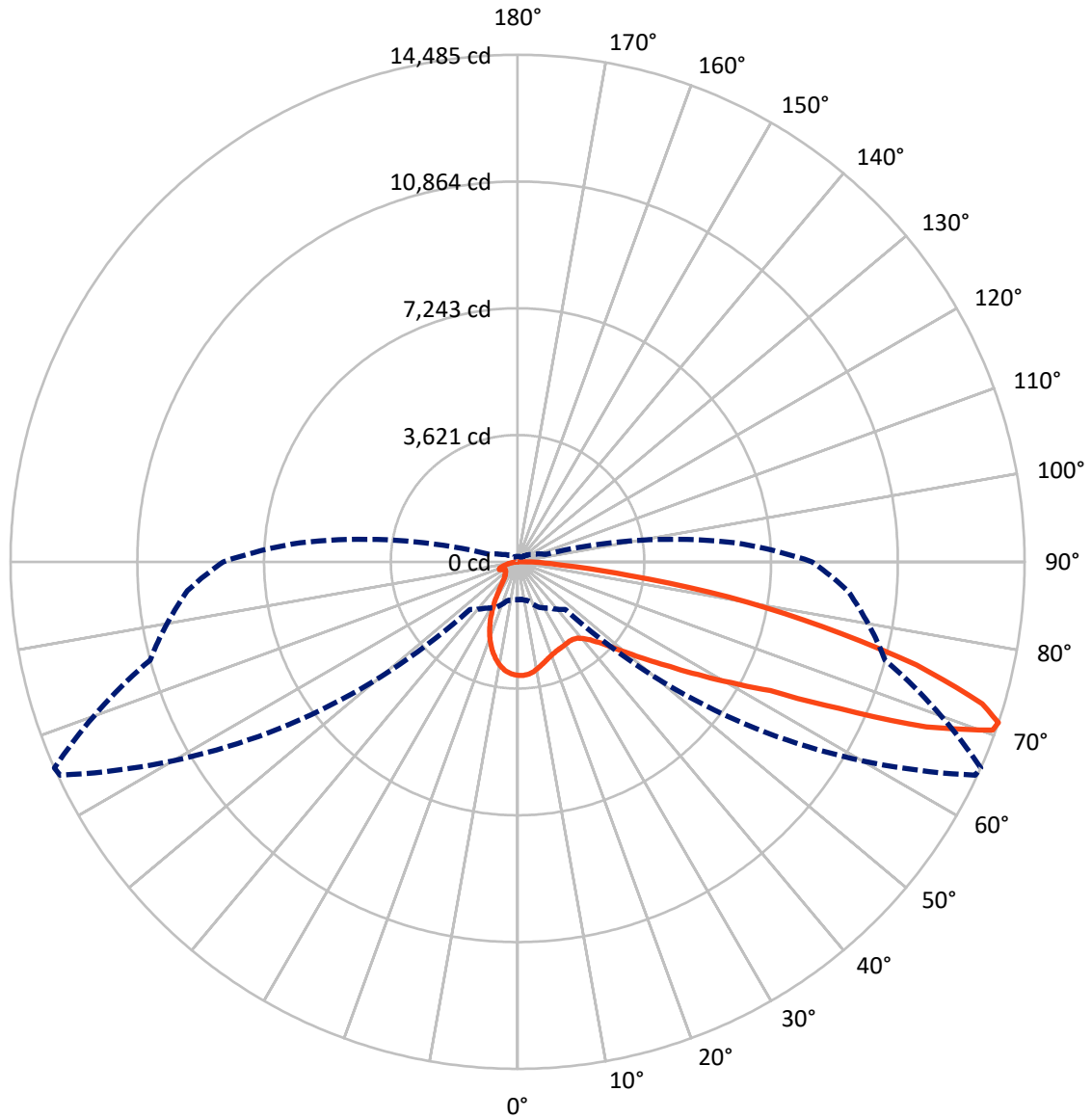
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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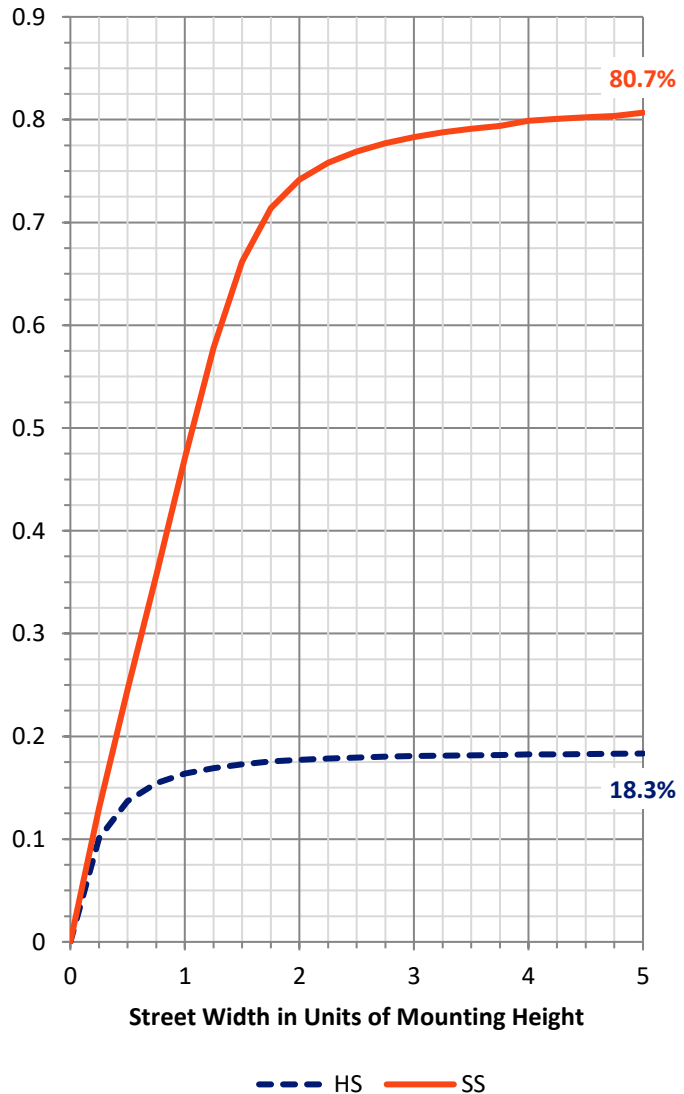
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2624.8	0.0	2624.8
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	11538.2	0.0	11538.2
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	14163.0	0.0	14163.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.6	2.0
10°-20°	685.0	4.8
20°-30°	920.1	6.5
30°-40°	1210.4	8.5
40°-50°	1760.8	12.4
50°-60°	2750.5	19.4
60°-70°	3445.4	24.3
70°-80°	2628.1	18.6
80°-90°	477.2	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°	14163.0	100.0
0°-180°	14163.0	100.0

**Coefficient of Utilization**

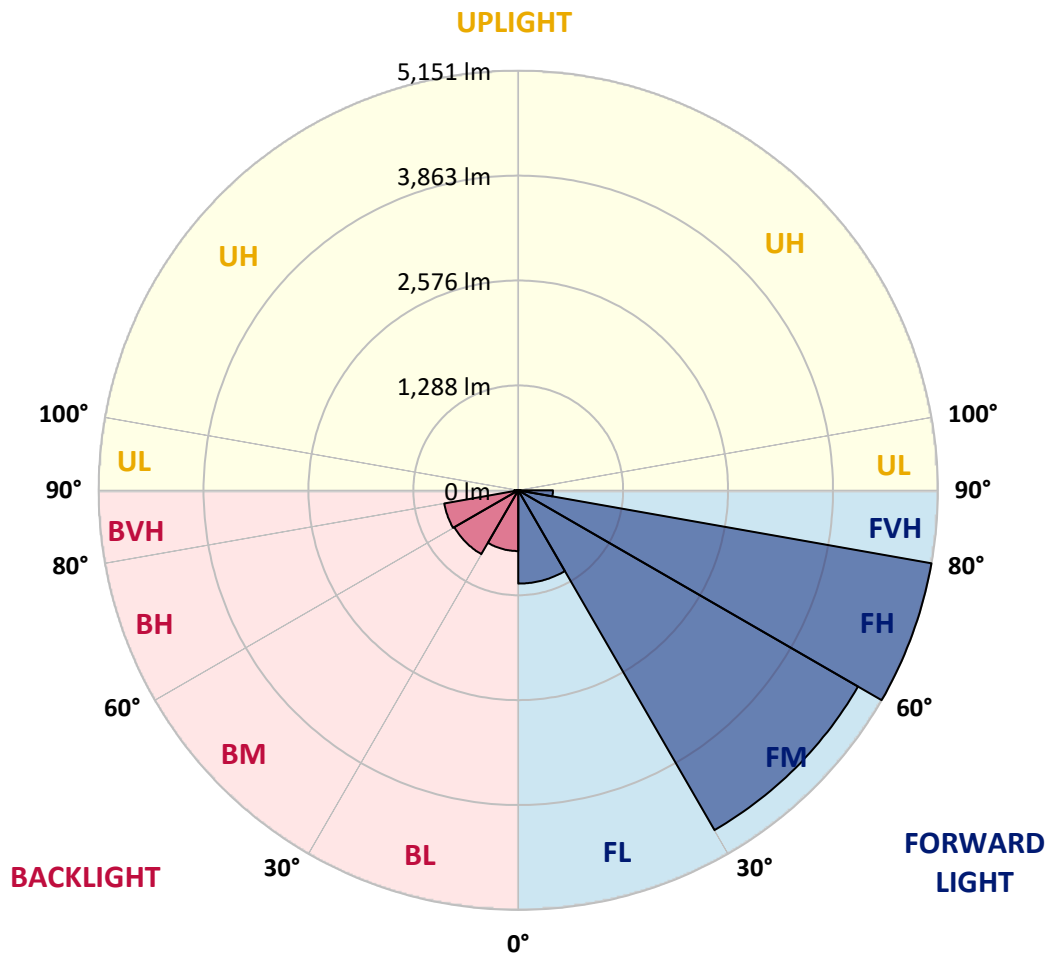


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1145.3	8.1			
FM (30°-60°)	4816.1	34.0			
FH (60°-80°)	5151.2	36.4			G3/7500
FVH (80°-90°)	425.6	3.0			G3/500
BL (0°-30°)	745.4	5.3	B2/1000		
BM (30°-60°)	905.5	6.4	B1/1000		
BH (60°-80°)	922.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	51.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3244.5	3244.5	3244.5	3244.5	3244.5	3244.5	3244.5	3244.5	3244.5	3244.5	3244.5
2.5°	3184.3	3179.4	3194.1	3209.3	3215.1	3224.9	3239.6	3247.9	3247.4	3248.9	3244.0
5°	2973.1	2966.7	2996.1	3020.0	3066.0	3117.8	3180.9	3225.9	3226.9	3252.3	3259.1
7.5°	2773.1	2768.7	2802.4	2841.0	2894.4	2973.6	3075.8	3172.6	3178.5	3247.4	3271.4
10°	2612.7	2611.7	2644.5	2686.5	2748.6	2837.1	2954.5	3096.3	3105.1	3223.9	3273.3
12.5°	2487.5	2489.5	2517.8	2565.7	2631.3	2723.7	2850.8	3010.7	3024.9	3186.8	3262.1
15°	2395.1	2402.9	2425.9	2474.3	2538.9	2632.7	2763.3	2931.5	2953.0	3145.2	3255.7
17.5°	2342.3	2351.1	2367.2	2407.3	2467.9	2558.4	2682.1	2866.5	2886.0	3113.4	3256.2
20°	2326.6	2334.0	2343.3	2367.7	2419.0	2501.2	2618.1	2807.8	2828.8	3088.0	3261.1
22.5°	2357.4	2362.8	2363.8	2361.8	2393.1	2460.1	2571.6	2764.8	2787.3	3071.4	3264.5
25°	2423.4	2430.8	2425.4	2407.3	2397.0	2438.1	2547.7	2736.4	2758.9	3059.1	3257.7
27.5°	2522.7	2523.7	2519.3	2495.8	2447.4	2440.6	2540.3	2719.8	2741.3	3045.0	3243.5
30°	2657.7	2664.0	2656.2	2624.4	2545.2	2479.7	2549.1	2703.6	2723.2	3026.9	3220.5
32.5°	2815.6	2831.3	2830.8	2797.5	2684.1	2567.2	2585.3	2693.9	2709.0	3007.8	3192.6
35°	2979.4	3001.0	3041.0	3026.9	2886.5	2705.6	2654.7	2709.5	2719.8	3005.4	3173.1
37.5°	3149.6	3171.1	3253.8	3291.9	3127.6	2903.6	2764.3	2764.8	2769.7	3035.2	3171.6
40°	3327.6	3350.6	3474.8	3574.1	3440.1	3154.5	2940.8	2880.2	2874.8	3108.5	3200.5
42.5°	3577.0	3597.5	3746.7	3873.3	3786.8	3475.8	3184.8	3058.2	3046.9	3252.3	3292.9
45°	3892.4	3910.0	4068.4	4203.9	4159.4	3842.5	3491.4	3303.1	3301.2	3491.9	3480.2
47.5°	4267.4	4281.1	4423.4	4554.5	4570.6	4264.5	3876.7	3681.1	3649.4	3820.5	3770.1
50°	4658.1	4673.3	4770.1	4911.0	5030.8	4829.3	4372.6	4144.2	4101.7	4254.2	4180.9
52.5°	4916.8	4936.9	5021.0	5199.5	5548.1	5448.4	4958.9	4705.6	4641.0	4779.9	4723.7
55°	4801.4	4846.4	4975.0	5261.1	5961.8	6394.1	5682.1	5360.3	5287.5	5402.9	5369.6
57.5°	4276.7	4338.3	4513.9	4955.5	6020.0	7227.3	6775.5	6131.5	6080.1	6046.9	6062.0
60°	3317.8	3377.0	3594.6	4170.1	5614.6	7835.6	8420.9	7082.1	7007.8	6693.3	6707.0
62.5°	2348.1	2318.3	2467.5	2888.5	4562.3	7907.0	10293.3	8353.5	8109.0	7376.0	7315.8
65°	1790.7	1783.8	1850.8	1984.8	2763.3	7052.7	11408.7	10490.4	10108.5	8178.9	8037.1
67.5°	1471.4	1459.2	1525.2	1720.3	1779.4	4550.1	11433.1	12969.6	12594.5	9178.4	8871.3
70°	1209.8	1196.1	1257.7	1509.5	1644.5	2307.6	9622.4	14421.4	14401.3	10443.9	9501.1
71°	1084.6	1074.8	1148.6	1428.3	1615.6	1923.2	8308.0	14425.3	14485.4	10872.3	9464.0
72.5°	883.1	886.5	964.8	1271.4	1594.1	1698.3	6106.1	13752.9	13880.1	11280.6	9126.1
75°	586.8	589.7	692.4	978.0	1545.7	1661.6	3356.0	11540.2	11774.0	11036.1	8327.6
77.5°	394.1	393.2	463.1	670.9	1346.7	1661.6	1967.7	8631.2	8887.9	8781.3	6420.0
80°	271.4	269.4	318.8	463.1	1019.6	1681.6	1521.3	6048.8	6126.6	4742.3	2609.3
82.5°	166.3	167.7	208.3	327.1	693.9	1513.4	1436.2	3298.3	3213.7	1330.1	651.8
85°	95.4	94.9	133.0	221.5	445.5	1277.2	1400.5	1419.5	1302.2	400.5	235.7
87.5°	34.2	36.7	71.4	122.7	255.3	889.5	1188.3	738.4	665.5	180.9	106.6
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°	3244.5	3244.5	3244.5	3244.5	3244.5	3244.5	3244.5	3244.5	3244.5	3244.5	3244.5
2.5°	3240.6	3243.5	3240.1	3220.5	3203.9	3177.0	3161.8	3140.8	3134.4	3131.5	3139.3
5°	3252.8	3253.8	3224.9	3173.6	3115.9	3047.9	2999.0	2938.8	2910.5	2898.3	2906.1
7.5°	3264.0	3259.6	3196.5	3098.3	2991.7	2873.3	2768.2	2671.9	2615.6	2592.6	2594.6
10°	3265.5	3246.9	3145.7	2993.6	2828.3	2654.7	2493.4	2344.7	2250.8	2189.7	2208.3
12.5°	3250.3	3219.0	3070.9	2858.2	2628.8	2392.2	2174.1	1951.1	1817.1	1755.0	1757.0
15°	3238.6	3181.9	2978.9	2698.8	2390.7	2077.2	1779.4	1517.3	1374.6	1311.0	1281.2
17.5°	3228.8	3141.8	2872.3	2519.3	2109.5	1712.0	1354.0	1120.3	1042.0	1023.5	1015.6
20°	3215.1	3099.2	2753.5	2311.5	1789.2	1303.2	988.7	873.3	873.8	895.3	898.3
22.5°	3196.1	3050.8	2626.9	2078.2	1445.5	949.1	775.1	741.8	775.5	816.6	824.0
25°	3167.7	2993.6	2486.0	1820.5	1102.2	729.6	662.1	660.6	701.7	744.7	751.1
27.5°	3127.6	2918.8	2329.6	1543.8	812.2	620.0	593.1	603.4	633.7	665.0	667.5
30°	3073.8	2831.8	2156.9	1251.8	636.7	552.1	549.1	558.4	577.0	599.0	601.0
32.5°	3014.6	2743.3	1972.6	969.2	545.2	515.4	518.3	522.7	531.5	540.3	542.3
35°	2960.9	2652.8	1783.8	736.4	501.7	491.4	489.5	488.5	489.5	486.5	487.0
37.5°	2926.1	2578.0	1587.3	586.3	476.8	470.4	464.5	457.2	448.9	444.0	445.0
40°	2913.4	2522.2	1388.3	506.6	456.2	451.8	440.6	424.9	415.2	412.2	412.2
42.5°	2947.7	2493.4	1196.1	466.5	439.1	431.8	413.2	395.1	387.8	387.3	386.8
45°	3052.3	2505.1	1013.2	444.5	423.5	409.3	384.8	369.7	364.8	365.8	365.3
47.5°	3240.1	2578.9	856.7	429.8	407.8	389.2	361.9	349.6	343.8	343.8	344.3
50°	3559.4	2751.6	732.0	417.6	394.6	370.7	345.2	330.1	322.2	321.8	321.8
52.5°	4024.4	3060.6	654.3	407.3	379.9	354.0	328.6	309.5	300.2	298.3	297.3
55°	4607.3	3503.6	632.8	400.5	360.4	335.9	308.6	289.5	279.2	274.8	274.3
57.5°	5259.1	4042.5	675.3	392.2	340.3	314.4	286.5	268.5	257.7	252.3	251.8
60°	5918.8	4630.8	848.9	380.4	323.7	291.0	264.1	247.4	236.7	230.8	229.8
62.5°	6579.4	5250.8	1203.4	379.5	312.0	268.5	241.1	226.9	216.6	210.3	208.8
65°	7324.6	5929.5	1606.3	405.4	308.1	247.9	217.6	206.4	197.6	191.7	191.2
67.5°	8180.4	6695.8	1567.7	458.7	321.3	229.3	195.6	186.8	180.4	175.5	175.1
70°	8581.8	6576.0	974.6	496.3	339.9	211.2	174.6	168.2	163.3	159.9	158.4
71°	8413.6	6244.0	817.1	491.9	337.9	203.4	166.3	161.4	156.5	153.5	152.1
72.5°	7954.9	5694.3	681.7	457.7	315.9	189.2	155.5	150.6	146.2	142.8	141.8
75°	7138.3	5085.5	545.7	365.8	251.8	159.9	136.4	131.1	127.6	125.7	123.7
77.5°	5247.4	3629.3	422.0	289.0	185.3	130.6	116.4	112.5	109.0	106.1	104.6
80°	2010.3	1405.9	284.1	215.6	135.9	103.2	93.9	91.9	88.5	86.6	86.6
82.5°	541.3	420.0	151.6	130.6	91.0	75.3	71.9	70.9	68.0	64.1	64.5
85°	219.1	185.3	85.1	71.9	55.7	44.5	48.4	48.9	45.5	40.6	41.1
87.5°	96.3	78.7	47.4	31.8	24.4	17.1	22.0	22.0	20.0	16.6	15.2
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)