

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: P836235

Luminaire Tested: **ARCH3-160-722-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19604 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 161
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



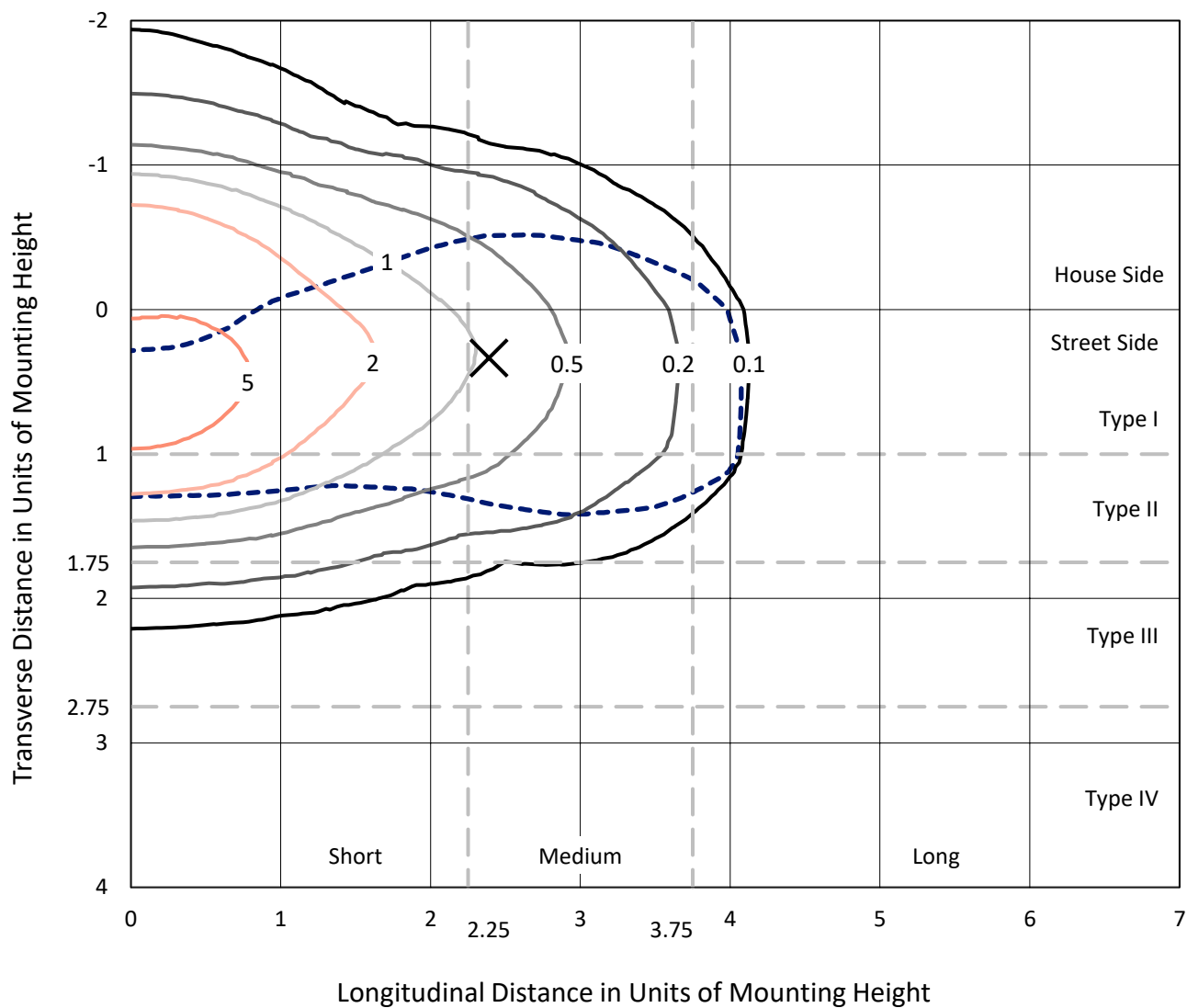
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Iso-Footcandle Lines of Horizontal Illumination

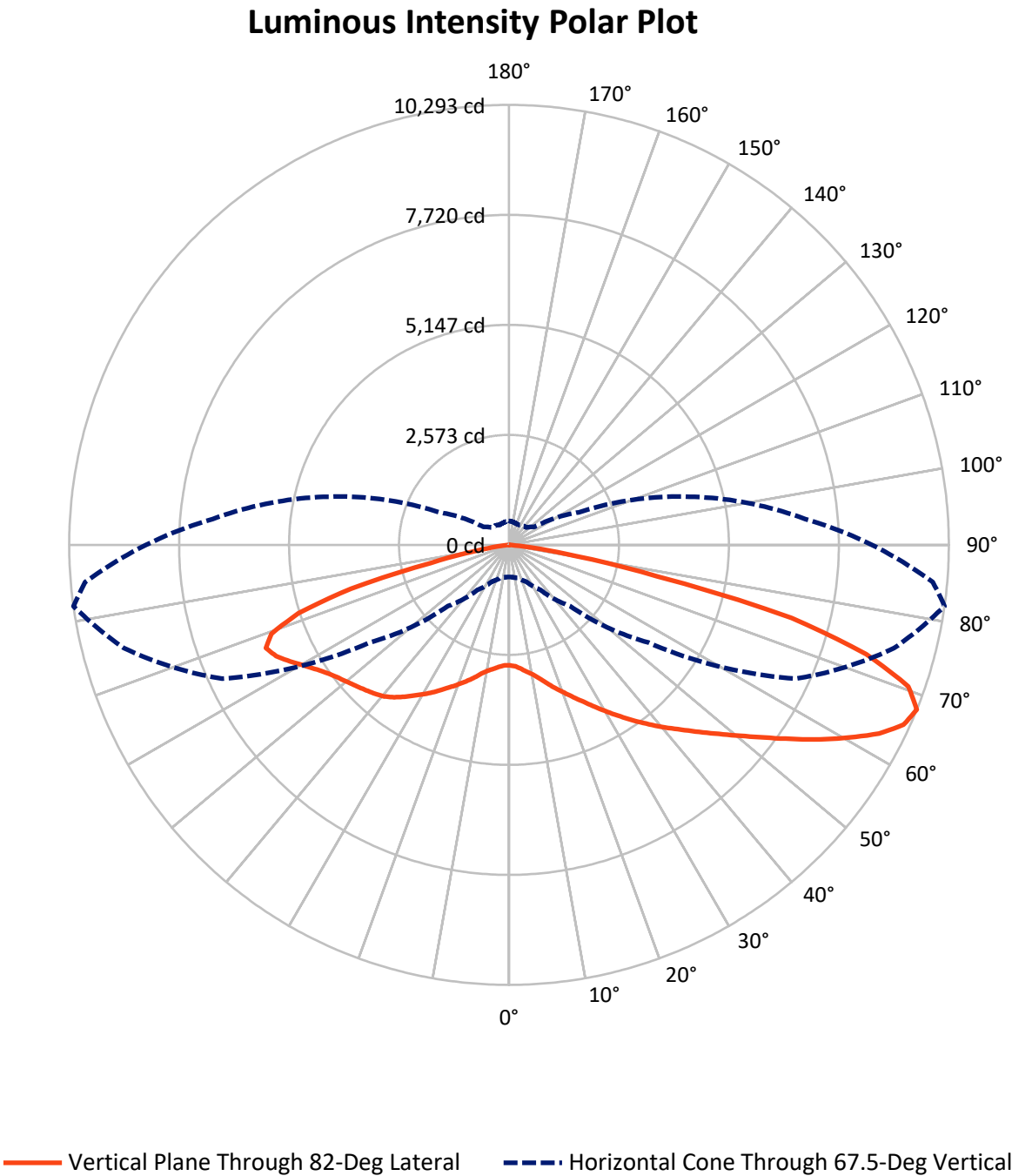
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type II - Medium - N/A

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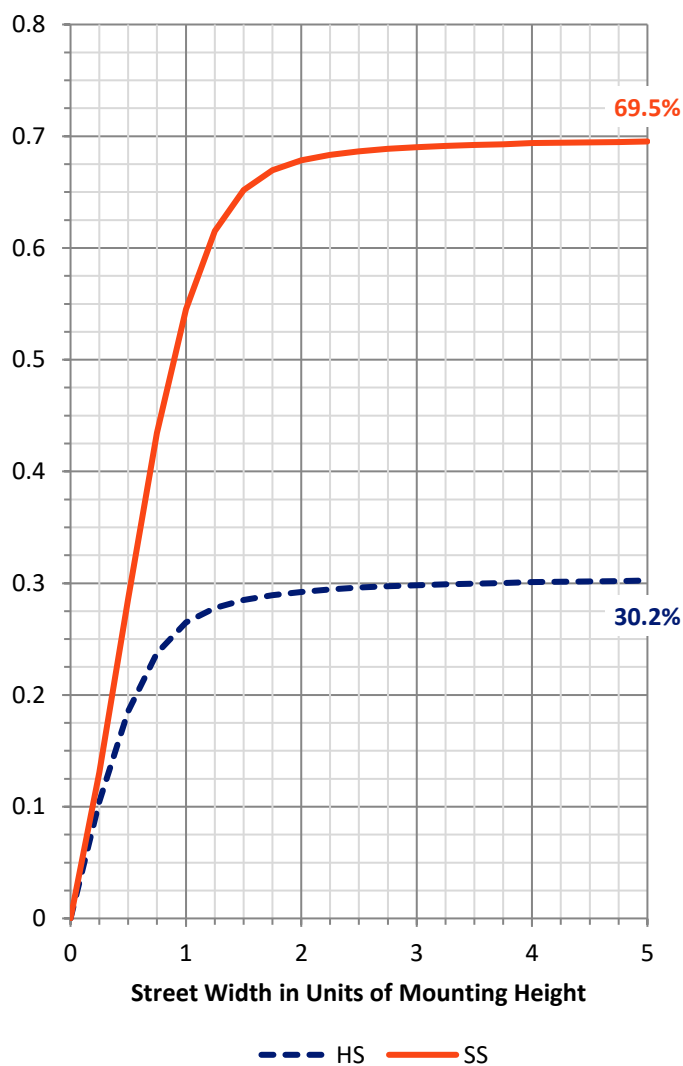
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5970.2	0.0	5970.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	13633.8	0.0	13633.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	19604.0	0.0	19604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.2	1.5
10°-20°	1049.0	5.4
20°-30°	2108.3	10.8
30°-40°	3311.9	16.9
40°-50°	4034.5	20.6
50°-60°	3812.1	19.4
60°-70°	3147.9	16.1
70°-80°	1714.2	8.7
80°-90°	134.8	0.7
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°	19604.0	100.0
0°-180°	19604.0	100.0

Coefficient of Utilization



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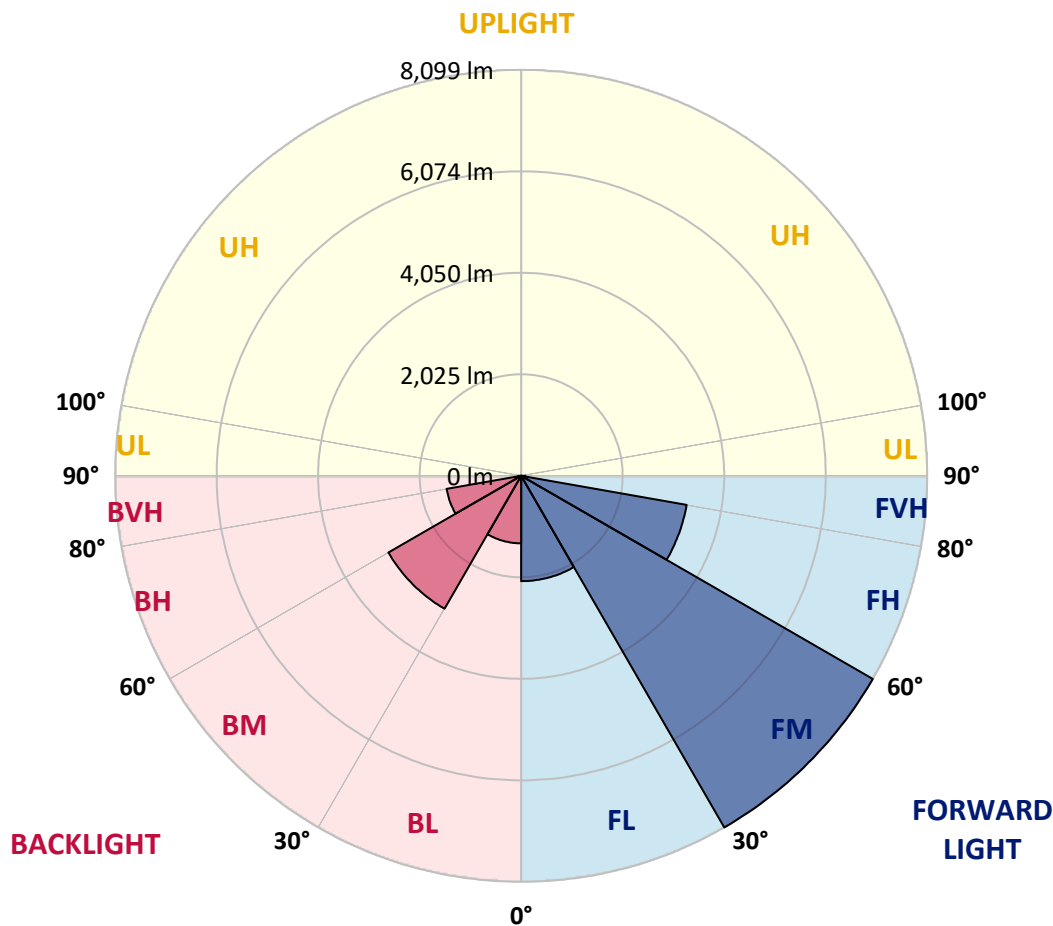
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2102.3	10.7			
FM	(30°-60°)	8099.3	41.3			
FH	(60°-80°)	3351.0	17.1			G2/5000
FVH	(80°-90°)	81.2	0.4			G1/100
BL	(0°-30°)	1346.3	6.9	B3/2500		
BM	(30°-60°)	3059.3	15.6	B3/5000		
BH	(60°-80°)	1511.1	7.7	B3/2500		G3/2500
BVH	(80°-90°)	53.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2818.1	2818.1	2818.1	2818.1	2818.1	2818.1	2818.1	2818.1	2818.1	2818.1	2818.1
2.5°	2946.2	2946.2	2968.9	2968.9	2949.0	2917.7	2909.2	2875.0	2843.7	2843.7	2846.5
5°	3228.0	3225.1	3242.2	3219.4	3171.0	3108.4	3065.7	2991.7	2929.1	2909.2	2906.3
7.5°	3572.4	3569.5	3578.1	3541.1	3450.0	3347.5	3262.1	3142.6	3040.1	2997.4	2986.0
10°	3956.7	3953.8	3945.3	3882.7	3760.3	3600.9	3472.8	3307.7	3154.0	3085.6	3071.4
12.5°	4397.9	4392.2	4372.3	4281.2	4113.2	3908.3	3723.3	3509.8	3304.8	3210.9	3179.6
15°	4890.3	4881.8	4844.8	4733.8	4508.9	4249.9	4010.8	3737.5	3487.0	3364.6	3321.9
17.5°	5408.4	5408.4	5351.5	5186.4	4935.9	4614.2	4318.2	3970.9	3677.7	3526.9	3475.6
20°	5935.0	5932.2	5861.0	5661.7	5365.7	4995.7	4619.9	4238.5	3874.1	3691.9	3629.3
22.5°	6490.1	6484.4	6396.2	6168.4	5815.5	5397.0	4958.7	4503.2	4090.5	3871.3	3791.6
25°	7127.7	7119.2	7011.0	6732.0	6313.6	5841.1	5340.1	4813.5	4338.1	4070.5	3976.6
27.5°	7805.2	7793.8	7665.7	7341.2	6882.9	6313.6	5761.4	5172.1	4611.4	4292.6	4187.2
30°	8408.7	8400.1	8260.6	7927.6	7401.0	6783.3	6162.7	5530.8	4898.9	4528.8	4397.9
32.5°	8864.1	8864.1	8738.8	8411.5	7865.0	7233.0	6566.9	5869.5	5197.8	4782.2	4628.5
35°	9140.2	9148.7	9040.6	8778.7	8263.5	7657.2	6985.4	6268.1	5516.6	5052.6	4887.5
37.5°	9180.1	9208.5	9145.9	8969.4	8539.6	8010.1	7395.3	6652.3	5846.8	5325.9	5140.8
40°	8995.0	9015.0	9017.8	8949.5	8653.5	8263.5	7756.8	7059.4	6196.9	5613.4	5399.9
42.5°	8625.0	8639.2	8664.8	8684.8	8570.9	8374.5	8032.9	7438.0	6569.8	5906.6	5656.1
45°	8146.8	8143.9	8186.6	8272.0	8266.3	8311.9	8186.6	7782.4	6956.9	6239.6	5940.7
47.5°	7432.3	7418.1	7568.9	7762.5	7859.3	8072.8	8189.5	8052.8	7378.2	6606.8	6265.2
50°	6313.6	6299.4	6629.6	7085.0	7369.7	7694.2	8032.9	8215.1	7819.4	7019.5	6618.2
52.5°	4953.0	4938.7	5357.2	6154.2	6774.7	7247.3	7716.9	8252.1	8237.9	7480.7	7016.7
55°	3683.4	3672.0	4079.1	4941.6	5946.4	6729.2	7329.8	8155.3	8630.7	8010.1	7500.6
57.5°	2596.0	2590.3	2943.3	3657.8	4881.8	6097.3	6956.9	7967.4	8992.2	8585.1	8047.1
60°	1821.8	1813.2	2069.4	2621.7	3691.9	5143.7	6586.9	7716.9	9262.6	9151.6	8627.8
62.5°	1226.9	1221.2	1403.3	1864.5	2621.7	3959.5	6026.1	7549.0	9416.3	9720.9	9214.2
65°	930.8	928.0	1010.5	1263.9	1855.9	2843.7	5135.1	7529.1	9436.2	10147.9	9712.4
67.5°	751.5	754.3	799.9	945.0	1283.8	2021.0	3982.3	7403.8	9330.9	10293.1	9954.3
70°	614.9	614.9	634.8	731.6	947.9	1363.5	2781.1	6834.5	9037.7	9914.5	9666.8
72.5°	469.7	472.5	535.1	592.1	714.5	956.4	1781.9	5656.1	8346.0	8741.7	8553.8
75°	372.9	370.0	407.1	486.8	555.1	683.2	1093.1	4056.3	7102.1	6831.7	6712.1
77.5°	267.6	264.7	293.2	361.5	421.3	483.9	651.9	2046.7	3862.7	3549.6	3461.4
80°	182.2	176.5	202.1	250.5	279.0	284.7	318.8	785.6	1685.1	1588.4	1568.4
82.5°	93.9	93.9	108.2	142.3	145.2	148.0	142.3	253.3	557.9	520.9	498.1
85°	37.0	37.0	39.9	48.4	48.4	51.2	51.2	65.5	59.8	56.9	54.1
87.5°	2.8	2.8	5.7	5.7	8.5	8.5	8.5	11.4	14.2	14.2	14.2
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°	2818.1	2818.1	2818.1	2818.1	2818.1	2818.1	2818.1	2818.1	2818.1	2818.1	2818.1
2.5°	2840.8	2829.5	2792.4	2783.9	2778.2	2769.7	2772.5	2752.6	2744.1	2746.9	2735.5
5°	2892.1	2872.1	2826.6	2806.7	2801.0	2792.4	2801.0	2786.8	2772.5	2778.2	2772.5
7.5°	2963.2	2934.8	2877.8	2857.9	2855.1	2846.5	2857.9	2846.5	2835.1	2840.8	2829.5
10°	3037.2	3000.2	2937.6	2917.7	2917.7	2914.8	2926.2	2909.2	2897.8	2900.6	2894.9
12.5°	3145.4	3097.0	3028.7	3011.6	3003.1	3011.6	3014.5	2991.7	2971.8	2974.6	2966.1
15°	3276.4	3222.3	3148.3	3122.6	3117.0	3114.1	3102.7	3074.3	3048.6	3045.8	3037.2
17.5°	3418.7	3350.4	3262.1	3236.5	3210.9	3202.3	3173.9	3136.9	3097.0	3097.0	3085.6
20°	3555.3	3478.5	3373.1	3336.1	3299.1	3265.0	3216.6	3156.8	3105.6	3097.0	3085.6
22.5°	3703.3	3612.2	3489.8	3435.8	3370.3	3302.0	3219.4	3139.7	3074.3	3060.0	3051.5
25°	3868.4	3754.6	3609.4	3529.7	3424.4	3319.1	3196.7	3094.2	3017.3	2994.5	2988.9
27.5°	4050.6	3914.0	3737.5	3620.8	3467.1	3302.0	3145.4	3023.0	2929.1	2900.6	2892.1
30°	4235.6	4073.4	3854.2	3683.4	3467.1	3247.9	3051.5	2909.2	2801.0	2761.1	2755.4
32.5°	4420.7	4238.5	3959.5	3717.6	3432.9	3156.8	2929.1	2761.1	2638.7	2590.3	2601.7
35°	4642.7	4420.7	4056.3	3731.8	3376.0	3045.8	2789.6	2593.2	2467.9	2425.2	2433.8
37.5°	4873.3	4602.8	4133.2	3720.4	3296.3	2920.5	2633.0	2442.3	2285.8	2211.8	2220.3
40°	5072.5	4767.9	4187.2	3680.6	3193.8	2778.2	2479.3	2228.8	2012.5	1941.3	1932.8
42.5°	5260.4	4890.3	4215.7	3620.8	3077.1	2613.1	2260.1	1938.5	1722.2	1633.9	1636.8
45°	5456.8	5009.9	4204.3	3541.1	2931.9	2419.6	1978.3	1653.8	1463.1	1383.4	1386.3
47.5°	5681.7	5138.0	4192.9	3455.7	2755.4	2169.1	1707.9	1403.3	1238.2	1181.3	1175.6
50°	5920.8	5280.3	4178.7	3350.4	2559.0	1890.1	1440.3	1169.9	1030.4	993.4	984.9
52.5°	6191.2	5434.0	4170.2	3225.1	2322.8	1594.1	1201.2	965.0	871.0	845.4	842.6
55°	6515.7	5613.4	4181.6	3074.3	2038.1	1315.1	999.1	831.2	768.6	754.3	751.5
57.5°	6911.4	5843.9	4215.7	2897.8	1739.2	1073.1	851.1	748.6	708.8	697.4	697.4
60°	7341.2	6105.8	4278.3	2698.5	1440.3	885.3	754.3	683.2	666.1	680.3	680.3
62.5°	7805.2	6413.2	4389.3	2456.6	1161.4	748.6	677.5	629.1	617.7	646.2	649.0
65°	8235.0	6712.1	4460.5	2166.2	922.3	649.0	617.7	575.0	580.7	609.2	606.3
67.5°	8499.7	6959.8	4360.9	1801.9	731.6	575.0	555.1	518.1	532.3	555.1	557.9
70°	8337.5	6820.3	3868.4	1360.6	572.2	501.0	486.8	464.0	475.4	503.8	515.2
72.5°	7543.3	6108.7	3008.8	919.4	461.1	421.3	427.0	415.6	429.8	455.4	481.1
75°	6122.9	4617.1	2018.2	589.2	364.4	358.7	367.2	358.7	364.4	390.0	404.2
77.5°	3196.7	2251.6	1004.8	367.2	270.4	279.0	293.2	296.0	313.1	318.8	324.5
80°	1491.6	1013.4	418.4	205.0	179.3	196.4	224.9	227.7	233.4	242.0	244.8
82.5°	486.8	304.6	193.6	111.0	102.5	111.0	145.2	173.6	176.5	193.6	193.6
85°	51.2	31.3	42.7	45.5	39.9	48.4	65.5	62.6	28.5	17.1	17.1
87.5°	14.2	11.4	14.2	14.2	11.4	11.4	8.5	2.8	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)