

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: P836379

Luminaire Tested: **ARCH3-180-722-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836379
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: ARCH3-180-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21074 lumens
Efficiency: N/A
Efficacy: 116.8 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): 180.5
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

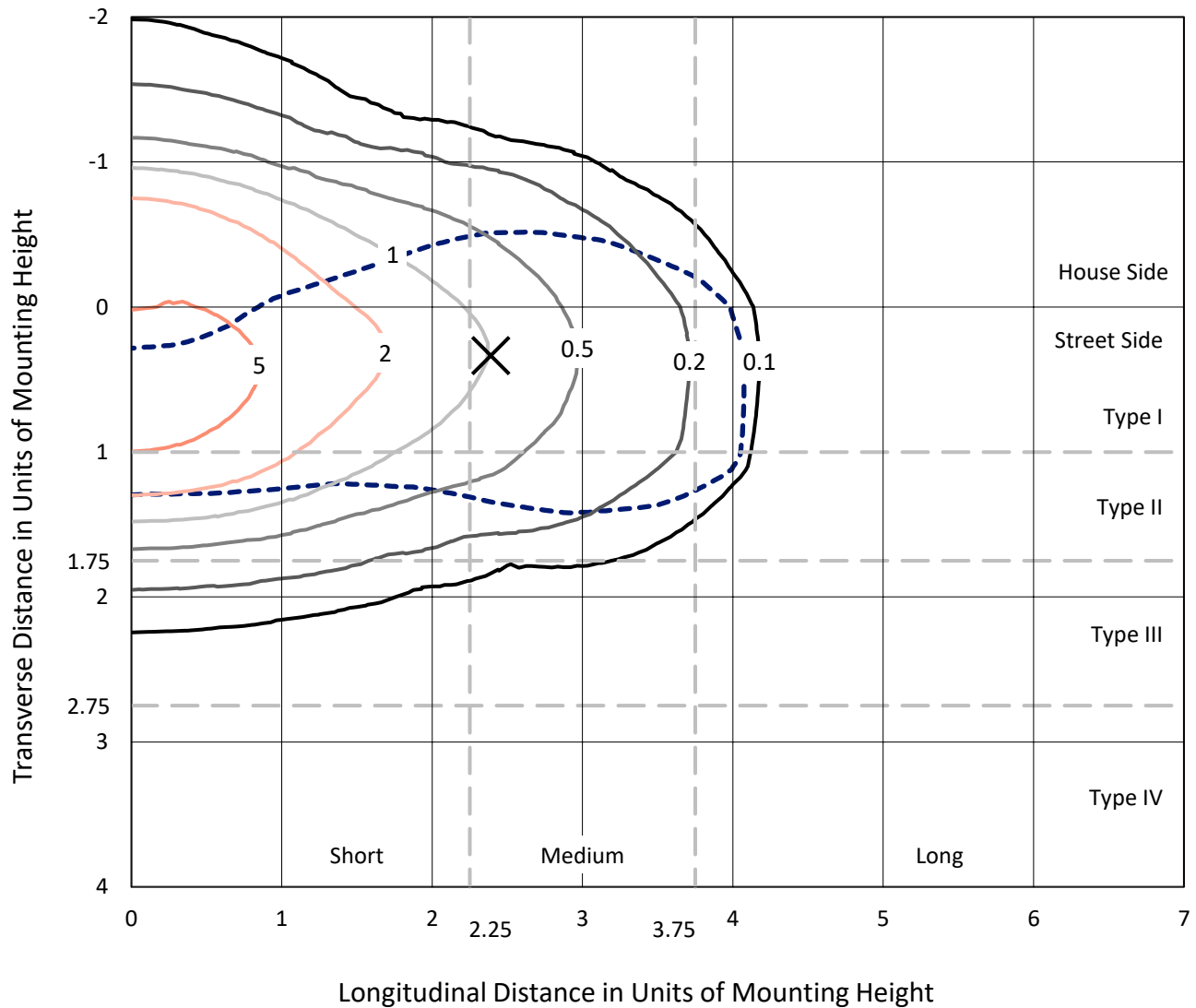


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

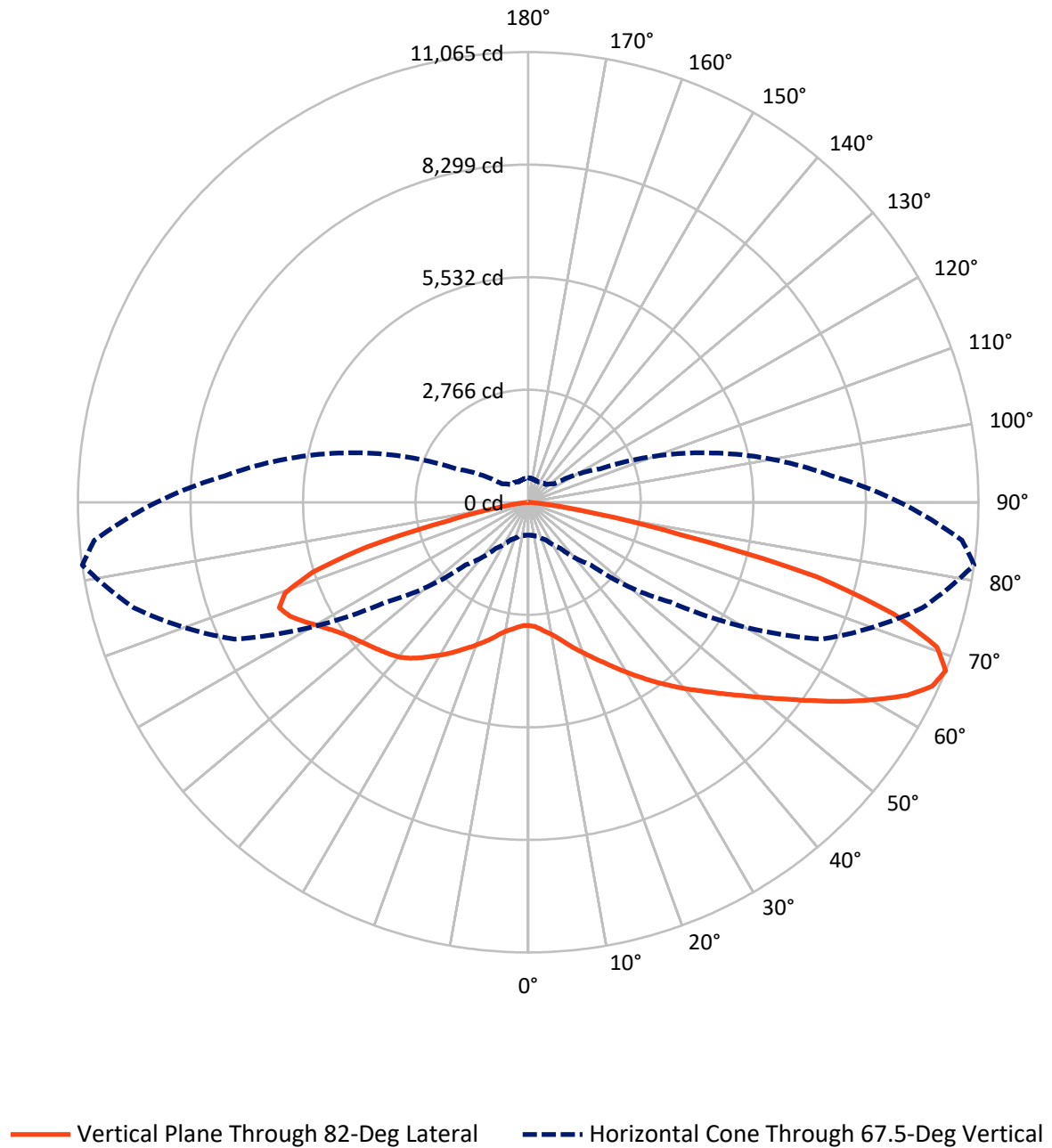


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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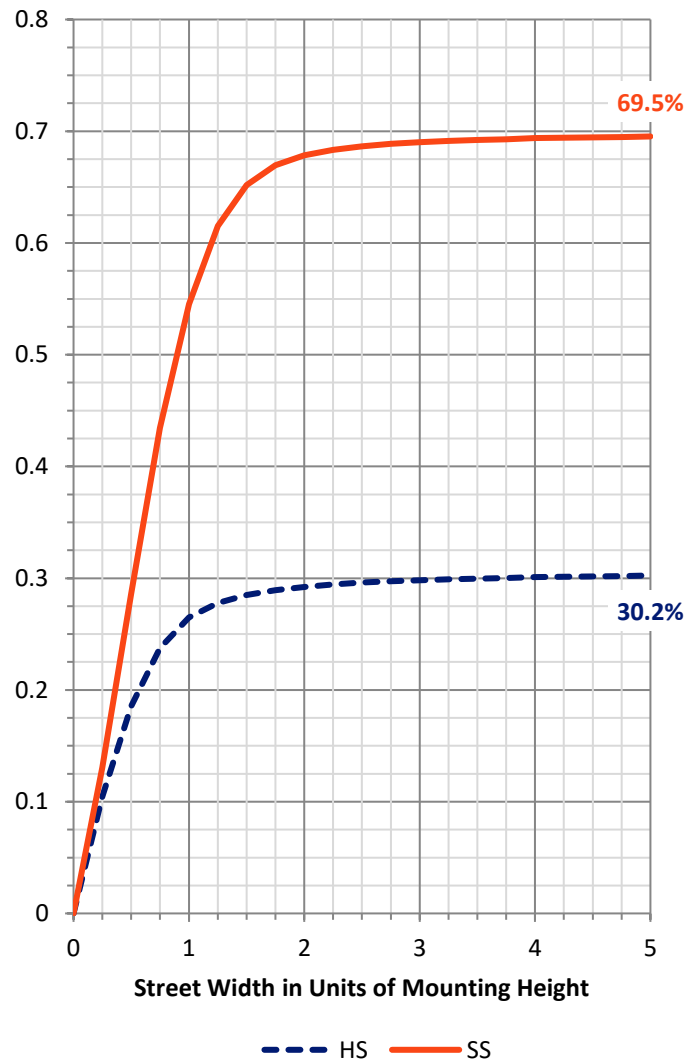
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6417.9	0.0	6417.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	14656.1	0.0	14656.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	21074.0	0.0	21074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.1	1.5
10°-20°	1127.7	5.4
20°-30°	2266.4	10.8
30°-40°	3560.2	16.9
40°-50°	4337.1	20.6
50°-60°	4098.0	19.4
60°-70°	3384.0	16.1
70°-80°	1842.7	8.7
80°-90°	144.9	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°	21074.0	100.0
0°-180°	21074.0	100.0

Coefficient of Utilization



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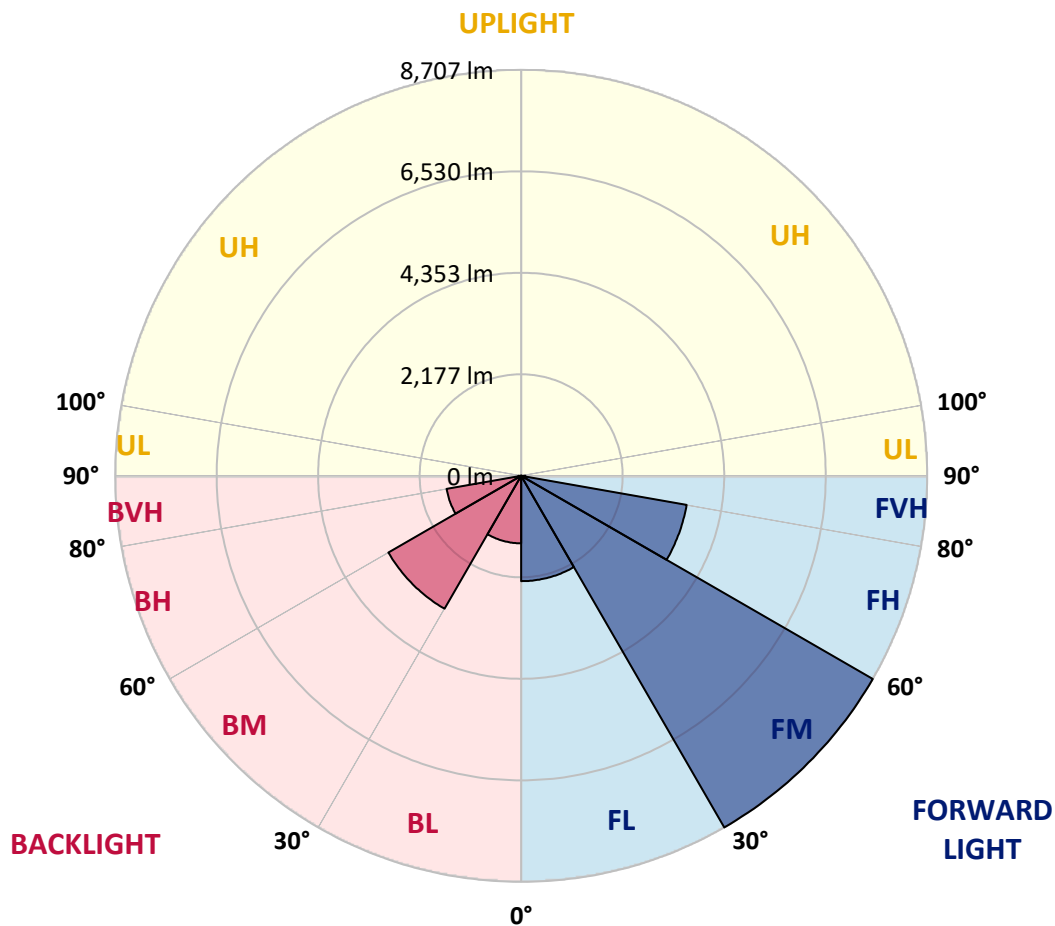
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2259.9	10.7			
FM	(30°-60°)	8706.6	41.3			
FH	(60°-80°)	3602.3	17.1			G2/5000
FVH	(80°-90°)	87.3	0.4			G1/100
BL	(0°-30°)	1447.3	6.9	B3/2500		
BM	(30°-60°)	3288.7	15.6	B3/5000		
BH	(60°-80°)	1624.4	7.7	B3/2500		G3/2500
BVH	(80°-90°)	57.6	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°	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4
2.5°	3167.1	3167.1	3191.6	3191.6	3170.1	3136.5	3127.3	3090.6	3056.9	3056.9	3060.0
5°	3470.0	3467.0	3485.3	3460.8	3408.8	3341.5	3295.6	3216.0	3148.7	3127.3	3124.2
7.5°	3840.3	3837.2	3846.4	3806.6	3708.7	3598.5	3506.7	3378.2	3268.1	3222.2	3209.9
10°	4253.4	4250.3	4241.1	4173.8	4042.2	3870.9	3733.2	3555.7	3390.5	3317.0	3301.7
12.5°	4727.7	4721.5	4700.1	4602.2	4421.7	4201.3	4002.4	3773.0	3552.6	3451.7	3418.0
15°	5257.0	5247.9	5208.1	5088.7	4847.0	4568.5	4311.5	4017.7	3748.5	3616.9	3571.0
17.5°	5814.0	5814.0	5752.8	5575.3	5306.0	4960.2	4642.0	4268.7	3953.5	3791.3	3736.2
20°	6380.1	6377.0	6300.5	6086.3	5768.1	5370.3	4966.3	4556.3	4164.6	3968.8	3901.5
22.5°	6976.7	6970.6	6875.8	6631.0	6251.5	5801.7	5330.5	4840.9	4397.2	4161.6	4075.9
25°	7662.2	7653.0	7536.7	7236.8	6787.0	6279.1	5740.5	5174.4	4663.4	4375.8	4274.8
27.5°	8390.5	8378.2	8240.5	7891.7	7399.0	6787.0	6193.4	5560.0	4957.2	4614.4	4501.2
30°	9039.2	9030.0	8880.1	8522.0	7955.9	7291.9	6624.8	5945.5	5266.2	4868.4	4727.7
32.5°	9528.8	9528.8	9394.1	9042.2	8454.7	7775.4	7059.4	6309.7	5587.5	5140.8	4975.5
35°	9825.6	9834.8	9718.5	9437.0	8883.1	8231.3	7509.2	6738.1	5930.2	5431.5	5254.0
37.5°	9868.4	9899.0	9831.7	9642.0	9179.9	8610.8	7949.8	7151.2	6285.2	5725.2	5526.3
40°	9669.5	9690.9	9694.0	9620.6	9302.3	8883.1	8338.4	7588.7	6661.6	6034.3	5804.8
42.5°	9271.7	9287.0	9314.6	9336.0	9213.6	9002.5	8635.3	7995.7	7062.4	6349.5	6080.2
45°	8757.7	8754.6	8800.5	8892.3	8886.2	8935.1	8800.5	8366.0	7478.6	6707.5	6386.2
47.5°	7989.6	7974.3	8136.5	8344.6	8448.6	8678.1	8803.6	8656.7	7931.5	7102.2	6735.0
50°	6787.0	6771.7	7126.7	7616.3	7922.3	8271.1	8635.3	8831.1	8405.8	7545.9	7114.4
52.5°	5324.4	5309.1	5758.9	6615.7	7282.7	7790.7	8295.6	8870.9	8855.6	8041.6	7542.8
55°	3959.6	3947.4	4384.9	5312.1	6392.3	7233.8	7879.4	8766.8	9277.8	8610.8	8063.0
57.5°	2790.7	2784.6	3164.0	3932.1	5247.9	6554.5	7478.6	8564.9	9666.5	9228.9	8650.6
60°	1958.4	1949.2	2224.6	2818.2	3968.8	5529.4	7080.8	8295.6	9957.2	9837.8	9274.8
62.5°	1318.8	1312.7	1508.6	2004.3	2818.2	4256.4	6478.0	8115.1	10122.4	10449.8	9905.1
65°	1000.6	997.6	1086.3	1358.6	1995.1	3056.9	5520.2	8093.6	10143.8	10908.8	10440.6
67.5°	807.8	810.9	859.9	1015.9	1380.0	2172.6	4280.9	7959.0	10030.6	11064.9	10700.7
70°	661.0	661.0	682.4	786.4	1019.0	1465.7	2989.6	7347.0	9715.4	10657.9	10391.7
72.5°	504.9	508.0	575.3	636.5	768.1	1028.2	1915.5	6080.2	8971.9	9397.2	9195.2
75°	400.9	397.8	437.6	523.3	596.7	734.4	1175.0	4360.5	7634.6	7343.9	7215.4
77.5°	287.6	284.6	315.2	388.6	452.9	520.2	700.7	2200.1	4152.4	3815.8	3720.9
80°	195.8	189.7	217.3	269.3	299.9	306.0	342.7	844.6	1811.5	1707.5	1686.0
82.5°	101.0	101.0	116.3	153.0	156.1	159.1	153.0	272.3	599.8	560.0	535.5
85°	39.8	39.8	42.8	52.0	52.0	55.1	55.1	70.4	64.3	61.2	58.1
87.5°	3.1	3.1	6.1	6.1	9.2	9.2	9.2	12.2	15.3	15.3	15.3
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°	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4
2.5°	3053.9	3041.6	3001.8	2992.7	2986.5	2977.4	2980.4	2959.0	2949.8	2952.9	2940.6
5°	3108.9	3087.5	3038.6	3017.1	3011.0	3001.8	3011.0	2995.7	2980.4	2986.5	2980.4
7.5°	3185.4	3154.8	3093.6	3072.2	3069.2	3060.0	3072.2	3060.0	3047.7	3053.9	3041.6
10°	3265.0	3225.2	3157.9	3136.5	3136.5	3133.4	3145.7	3127.3	3115.1	3118.1	3112.0
12.5°	3381.3	3329.3	3255.8	3237.5	3228.3	3237.5	3240.5	3216.0	3194.6	3197.7	3188.5
15°	3522.0	3463.9	3384.3	3356.8	3350.7	3347.6	3335.4	3304.8	3277.2	3274.2	3265.0
17.5°	3675.0	3601.6	3506.7	3479.2	3451.7	3442.5	3411.9	3372.1	3329.3	3329.3	3317.0
20°	3821.9	3739.3	3626.1	3586.3	3546.5	3509.8	3457.8	3393.5	3338.4	3329.3	3317.0
22.5°	3981.0	3883.1	3751.5	3693.4	3623.0	3549.6	3460.8	3375.2	3304.8	3289.5	3280.3
25°	4158.5	4036.1	3880.1	3794.4	3681.2	3567.9	3436.4	3326.2	3243.6	3219.1	3213.0
27.5°	4354.3	4207.5	4017.7	3892.3	3727.1	3549.6	3381.3	3249.7	3148.7	3118.1	3108.9
30°	4553.2	4378.8	4143.2	3959.6	3727.1	3491.4	3280.3	3127.3	3011.0	2968.2	2962.1
32.5°	4752.1	4556.3	4256.4	3996.3	3690.3	3393.5	3148.7	2968.2	2836.6	2784.6	2796.8
35°	4990.8	4752.1	4360.5	4011.6	3629.1	3274.2	2998.8	2787.6	2653.0	2607.1	2616.3
37.5°	5238.7	4948.0	4443.1	3999.4	3543.5	3139.5	2830.5	2625.5	2457.2	2377.6	2386.8
40°	5452.9	5125.5	4501.2	3956.5	3433.3	2986.5	2665.2	2396.0	2163.4	2086.9	2077.7
42.5°	5654.8	5257.0	4531.8	3892.3	3307.8	2809.1	2429.6	2083.8	1851.3	1756.4	1759.5
45°	5866.0	5385.6	4519.6	3806.6	3151.8	2601.0	2126.7	1777.8	1572.8	1487.1	1490.2
47.5°	6107.7	5523.3	4507.3	3714.8	2962.1	2331.7	1836.0	1508.6	1331.1	1269.9	1263.8
50°	6364.8	5676.3	4492.0	3601.6	2750.9	2031.8	1548.3	1257.7	1107.7	1067.9	1058.8
52.5°	6655.4	5841.5	4482.9	3467.0	2496.9	1713.6	1291.3	1037.3	936.4	908.8	905.8
55°	7004.3	6034.3	4495.1	3304.8	2190.9	1413.7	1074.1	893.5	826.2	810.9	807.8
57.5°	7429.6	6282.1	4531.8	3115.1	1869.6	1153.6	914.9	804.8	761.9	749.7	749.7
60°	7891.7	6563.6	4599.1	2900.9	1548.3	951.7	810.9	734.4	716.0	731.3	731.3
62.5°	8390.5	6894.1	4718.5	2640.8	1248.5	804.8	728.3	676.3	664.0	694.6	697.7
65°	8852.5	7215.4	4795.0	2328.6	991.4	697.7	664.0	618.1	624.2	654.8	651.8
67.5°	9137.1	7481.6	4687.9	1937.0	786.4	618.1	596.7	556.9	572.2	596.7	599.8
70°	8962.7	7331.7	4158.5	1462.7	615.1	538.6	523.3	498.8	511.0	541.6	553.9
72.5°	8108.9	6566.7	3234.4	988.4	495.7	452.9	459.0	446.8	462.1	489.6	517.1
75°	6582.0	4963.3	2169.5	633.4	391.7	385.6	394.7	385.6	391.7	419.2	434.5
77.5°	3436.4	2420.4	1080.2	394.7	290.7	299.9	315.2	318.2	336.6	342.7	348.8
80°	1603.4	1089.4	449.8	220.3	192.8	211.1	241.7	244.8	250.9	260.1	263.2
82.5°	523.3	327.4	208.1	119.3	110.2	119.3	156.1	186.7	189.7	208.1	208.1
85°	55.1	33.7	45.9	49.0	42.8	52.0	70.4	67.3	30.6	18.4	18.4
87.5°	15.3	12.2	15.3	15.3	12.2	12.2	9.2	3.1	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)