

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: P836452

Luminaire Tested: **ARCH3-190-722-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14838 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 189.4
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

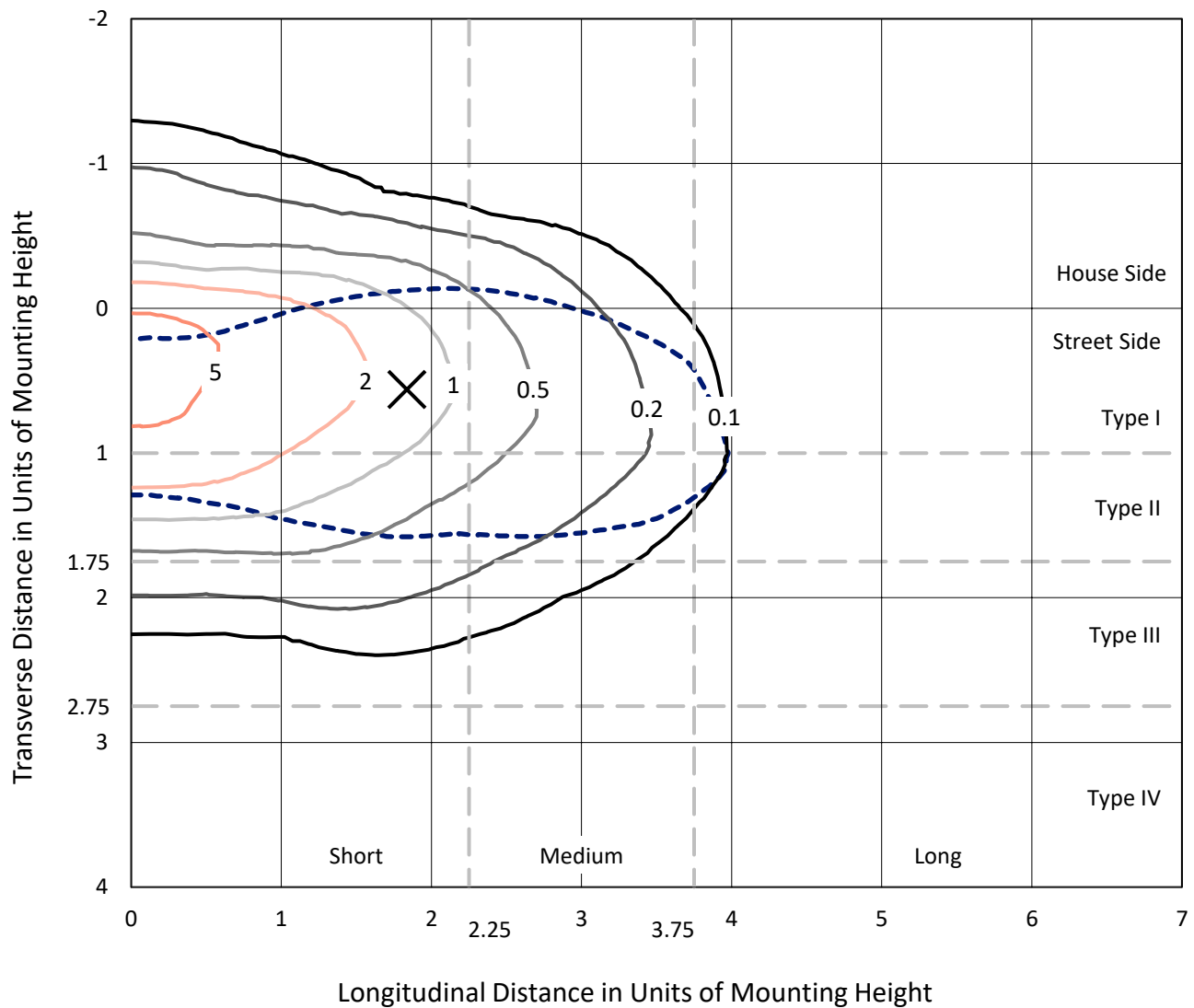


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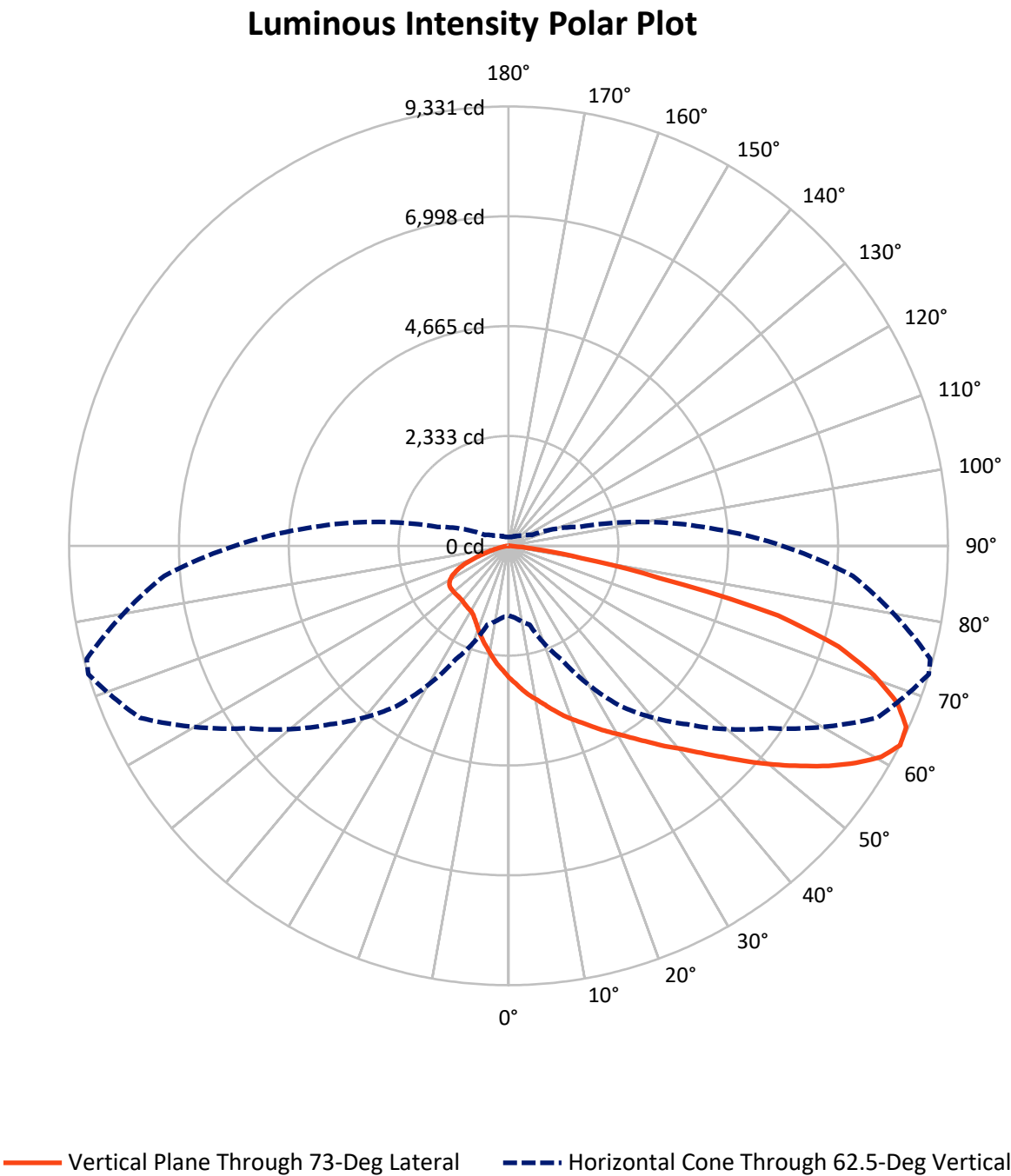
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type II - Short - N/A

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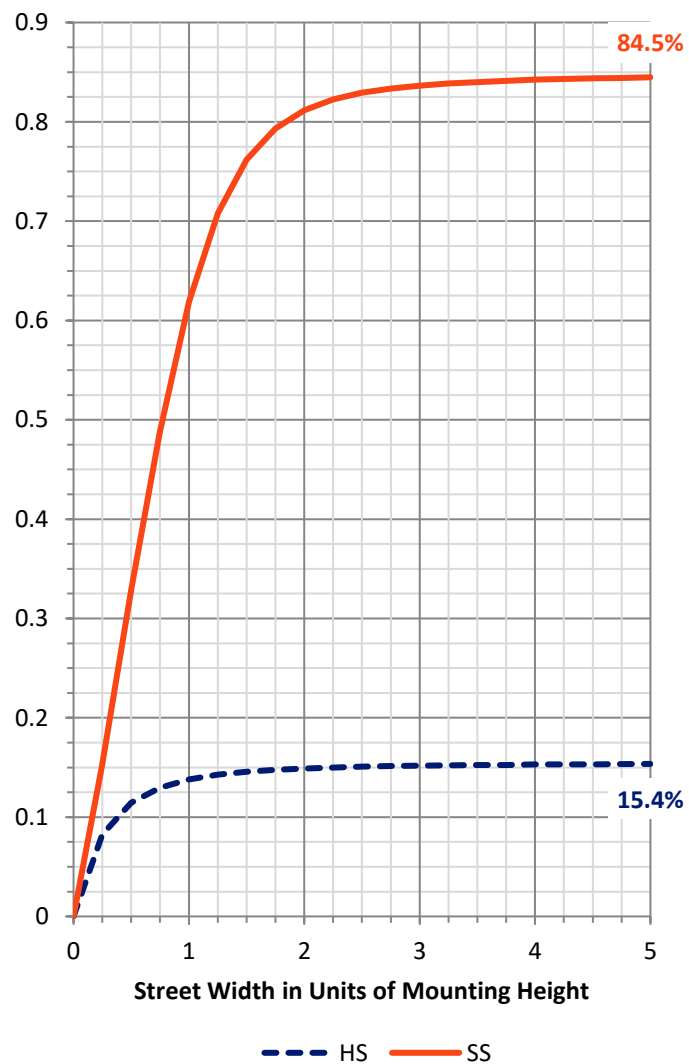
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2300.1	0.0	2300.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12537.9	0.0	12537.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	14838.0	0.0	14838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.4	1.8
10°-20°	819.0	5.5
20°-30°	1363.3	9.2
30°-40°	2057.0	13.9
40°-50°	2875.2	19.4
50°-60°	3175.8	21.4
60°-70°	2766.6	18.6
70°-80°	1397.5	9.4
80°-90°	112.2	0.8
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°	14838.0	100.0
0°-180°	14838.0	100.0

Coefficient of Utilization



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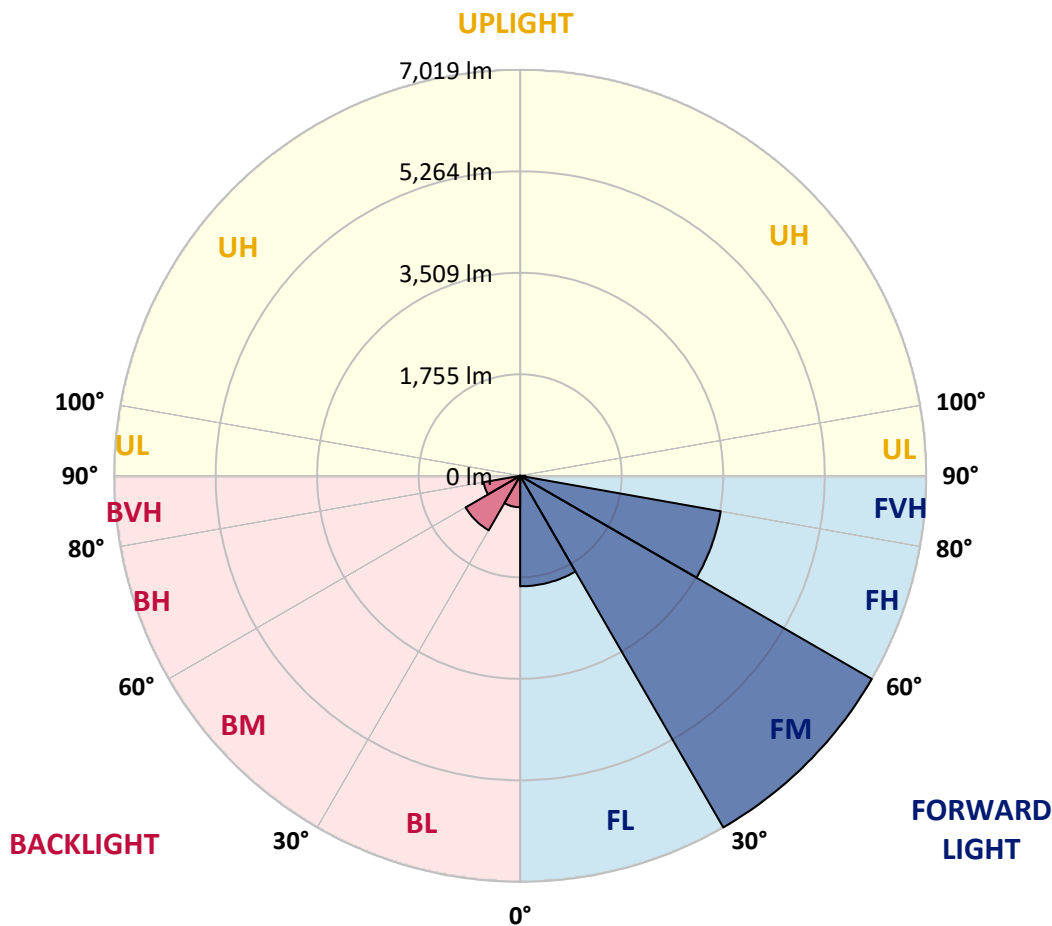
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1910.1	12.9			
FM	(30°-60°)	7018.9	47.3			
FH	(60°-80°)	3522.1	23.7			G2/5000
FVH	(80°-90°)	86.8	0.6			G1/100
BL	(0°-30°)	543.7	3.7	B2/1000		
BM	(30°-60°)	1089.1	7.3	B2/2500		
BH	(60°-80°)	642.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	25.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6
2.5°	3197.6	3233.1	3213.8	3226.7	3162.0	3120.0	3071.5	2977.7	2926.0	2919.5	2858.1
5°	3666.4	3705.2	3672.9	3663.2	3550.0	3453.0	3343.1	3178.2	3068.3	3048.9	2913.1
7.5°	4135.2	4170.8	4132.0	4102.9	3950.9	3779.6	3617.9	3375.4	3204.1	3171.7	2958.3
10°	4465.0	4497.3	4468.2	4439.1	4280.7	4106.1	3876.5	3559.7	3326.9	3275.2	2987.4
12.5°	4713.9	4733.3	4720.4	4694.5	4545.8	4358.3	4138.4	3766.6	3465.9	3401.3	3032.7
15°	4917.6	4950.0	4933.8	4914.4	4772.1	4584.6	4374.5	3983.2	3627.6	3546.8	3100.6
17.5°	5053.4	5076.0	5079.3	5079.3	4953.2	4768.9	4565.2	4180.5	3789.3	3685.8	3165.3
20°	5114.8	5140.7	5156.9	5182.7	5079.3	4920.9	4713.9	4348.6	3941.2	3824.8	3226.7
22.5°	5143.9	5166.6	5208.6	5266.8	5182.7	5050.2	4859.4	4503.8	4093.2	3970.3	3297.8
25°	5166.6	5195.7	5257.1	5367.0	5308.8	5195.7	5030.8	4681.6	4274.2	4148.1	3401.3
27.5°	5228.0	5263.6	5321.8	5454.3	5383.2	5328.2	5211.8	4872.4	4465.0	4335.7	3527.4
30°	5441.4	5470.5	5467.3	5551.3	5464.0	5447.9	5367.0	5056.6	4649.3	4519.9	3676.1
32.5°	5829.4	5858.5	5787.3	5755.0	5564.2	5567.5	5535.2	5253.9	4869.1	4736.6	3847.4
35°	6246.4	6278.8	6185.0	6130.1	5810.0	5716.2	5732.4	5499.6	5114.8	4982.3	4060.8
37.5°	6618.3	6657.1	6576.2	6495.4	6172.1	5955.5	5952.2	5774.4	5396.1	5260.3	4296.9
40°	6821.9	6867.2	6915.7	6870.4	6531.0	6291.7	6188.2	6055.7	5674.2	5535.2	4552.3
42.5°	6918.9	7045.0	7132.3	7103.2	6825.2	6582.7	6459.8	6349.9	6013.7	5877.9	4856.2
45°	6647.4	6650.6	6834.9	6993.3	6941.6	6779.9	6757.3	6679.7	6401.6	6272.3	5198.9
47.5°	6307.9	6282.0	6411.3	6692.6	6838.1	6880.1	7012.7	7045.0	6844.6	6715.3	5548.1
50°	5493.1	5509.3	5929.6	6333.7	6618.3	6889.8	7193.8	7420.1	7300.5	7177.6	5916.7
52.5°	4468.2	4507.0	4988.7	5877.9	6327.3	6792.8	7300.5	7795.1	7766.0	7649.6	6285.2
55°	3582.3	3643.8	4154.6	5118.1	5955.5	6576.2	7345.7	8137.8	8247.8	8141.1	6647.4
57.5°	2738.5	2803.1	3233.1	4222.5	5480.2	6223.8	7313.4	8438.5	8697.2	8629.3	6980.4
60°	2062.7	2127.4	2402.2	3423.9	4885.3	5829.4	7151.7	8635.7	9101.3	9030.2	7222.9
62.5°	1477.5	1529.3	1733.0	2664.1	4161.1	5360.6	6754.0	8639.0	9330.9	9272.7	7339.2
65°	1063.7	1063.7	1228.6	1901.1	3482.1	4798.0	6152.7	8241.3	9282.4	9266.2	7258.4
67.5°	766.3	772.7	905.3	1328.8	2777.3	4115.8	5373.5	7533.2	8907.3	8988.2	6967.4
70°	543.2	559.3	620.8	927.9	2098.3	3249.3	4539.3	6605.3	8231.6	8373.9	6404.9
72.5°	420.3	430.0	472.0	646.6	1532.5	2415.2	3617.9	5570.7	7329.5	7491.2	5638.6
75°	323.3	333.0	365.3	475.3	1099.3	1694.2	2570.4	4322.7	5910.2	6197.9	4529.6
77.5°	236.0	249.0	271.6	345.9	640.2	1076.6	1558.4	2431.3	3262.2	3398.0	2373.1
80°	109.9	126.1	158.4	223.1	345.9	507.6	552.9	937.6	1568.1	1639.2	1286.8
82.5°	61.4	77.6	90.5	135.8	174.6	181.1	187.5	236.0	591.7	653.1	539.9
85°	29.1	38.8	42.0	58.2	58.2	51.7	61.4	45.3	97.0	116.4	113.2
87.5°	0.0	3.2	6.5	16.2	12.9	9.7	9.7	9.7	9.7	12.9	9.7
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6
2.5°	2829.0	2787.0	2690.0	2605.9	2551.0	2502.5	2437.8	2408.7	2357.0	2366.7	2337.6
5°	2845.2	2767.6	2596.2	2437.8	2321.4	2217.9	2104.8	2040.1	1969.0	1962.5	1939.9
7.5°	2854.9	2735.2	2489.5	2266.4	2088.6	1930.2	1778.2	1694.2	1606.9	1587.5	1568.1
10°	2845.2	2686.7	2379.6	2088.6	1852.6	1655.4	1484.0	1377.3	1286.8	1264.2	1244.8
12.5°	2854.9	2660.9	2276.1	1923.7	1642.4	1419.4	1225.4	1115.4	1031.4	1008.7	995.8
15°	2877.5	2644.7	2188.8	1775.0	1454.9	1206.0	1015.2	921.4	853.6	830.9	824.5
17.5°	2896.9	2628.6	2095.1	1629.5	1267.4	1018.4	853.6	776.0	717.8	695.1	688.7
20°	2922.8	2605.9	2001.3	1490.5	1102.5	869.7	724.2	656.3	611.1	594.9	591.7
22.5°	2945.4	2589.8	1914.0	1351.5	950.5	750.1	627.2	572.3	539.9	523.8	523.8
25°	3003.6	2596.2	1839.7	1222.1	837.4	656.3	552.9	510.8	485.0	475.3	475.3
27.5°	3071.5	2622.1	1781.5	1112.2	740.4	585.2	501.1	465.6	452.6	439.7	442.9
30°	3168.5	2673.8	1742.7	1021.7	669.3	530.2	459.1	433.2	420.3	417.1	417.1
32.5°	3291.3	2757.9	1739.4	963.5	617.5	488.2	430.0	407.4	400.9	397.7	397.7
35°	3436.8	2832.2	1720.0	937.6	585.2	459.1	407.4	391.2	388.0	388.0	388.0
37.5°	3611.4	2955.1	1707.1	902.0	569.0	442.9	391.2	378.3	378.3	378.3	378.3
40°	3792.5	3055.3	1687.7	869.7	562.6	433.2	381.5	365.3	365.3	365.3	365.3
42.5°	4009.1	3200.8	1681.2	853.6	552.9	426.8	368.6	349.2	352.4	352.4	355.6
45°	4271.0	3365.7	1678.0	837.4	549.6	420.3	355.6	333.0	336.2	333.0	333.0
47.5°	4536.1	3556.5	1687.7	827.7	546.4	413.8	345.9	316.8	316.8	313.6	313.6
50°	4814.2	3731.1	1694.2	818.0	539.9	400.9	329.8	303.9	297.4	291.0	294.2
52.5°	5076.0	3892.7	1697.4	801.8	520.5	381.5	316.8	287.8	278.1	268.4	271.6
55°	5337.9	4047.9	1703.9	782.4	494.7	362.1	300.7	271.6	258.7	245.7	245.7
57.5°	5573.9	4183.7	1687.7	733.9	465.6	342.7	284.5	252.2	232.8	219.9	219.9
60°	5735.6	4280.7	1639.2	662.8	426.8	320.1	268.4	232.8	210.2	200.5	200.5
62.5°	5813.2	4296.9	1551.9	546.4	378.3	297.4	249.0	213.4	194.0	187.5	187.5
65°	5738.8	4225.7	1416.1	410.6	326.5	271.6	229.6	197.2	177.8	161.7	161.7
67.5°	5480.2	4025.3	1228.6	310.4	278.1	245.7	210.2	181.1	158.4	145.5	145.5
70°	4959.7	3608.2	950.5	249.0	236.0	213.4	190.8	161.7	142.3	126.1	126.1
72.5°	4277.5	3058.6	669.3	200.5	200.5	181.1	161.7	142.3	122.9	109.9	109.9
75°	3281.6	2263.2	449.4	161.7	164.9	152.0	132.6	116.4	103.5	93.8	93.8
77.5°	1791.2	1118.7	274.8	119.6	122.9	116.4	103.5	93.8	87.3	77.6	77.6
80°	869.7	491.4	158.4	84.1	87.3	84.1	77.6	67.9	67.9	61.4	61.4
82.5°	365.3	184.3	84.1	58.2	58.2	51.7	48.5	48.5	48.5	45.3	45.3
85°	90.5	35.6	35.6	32.3	32.3	32.3	29.1	29.1	29.1	22.6	25.9
87.5°	12.9	12.9	12.9	12.9	12.9	12.9	9.7	3.2	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)