

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: P836453

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

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
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
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21716 lumens
Efficiency: N/A
Efficacy: 114.7 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): 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

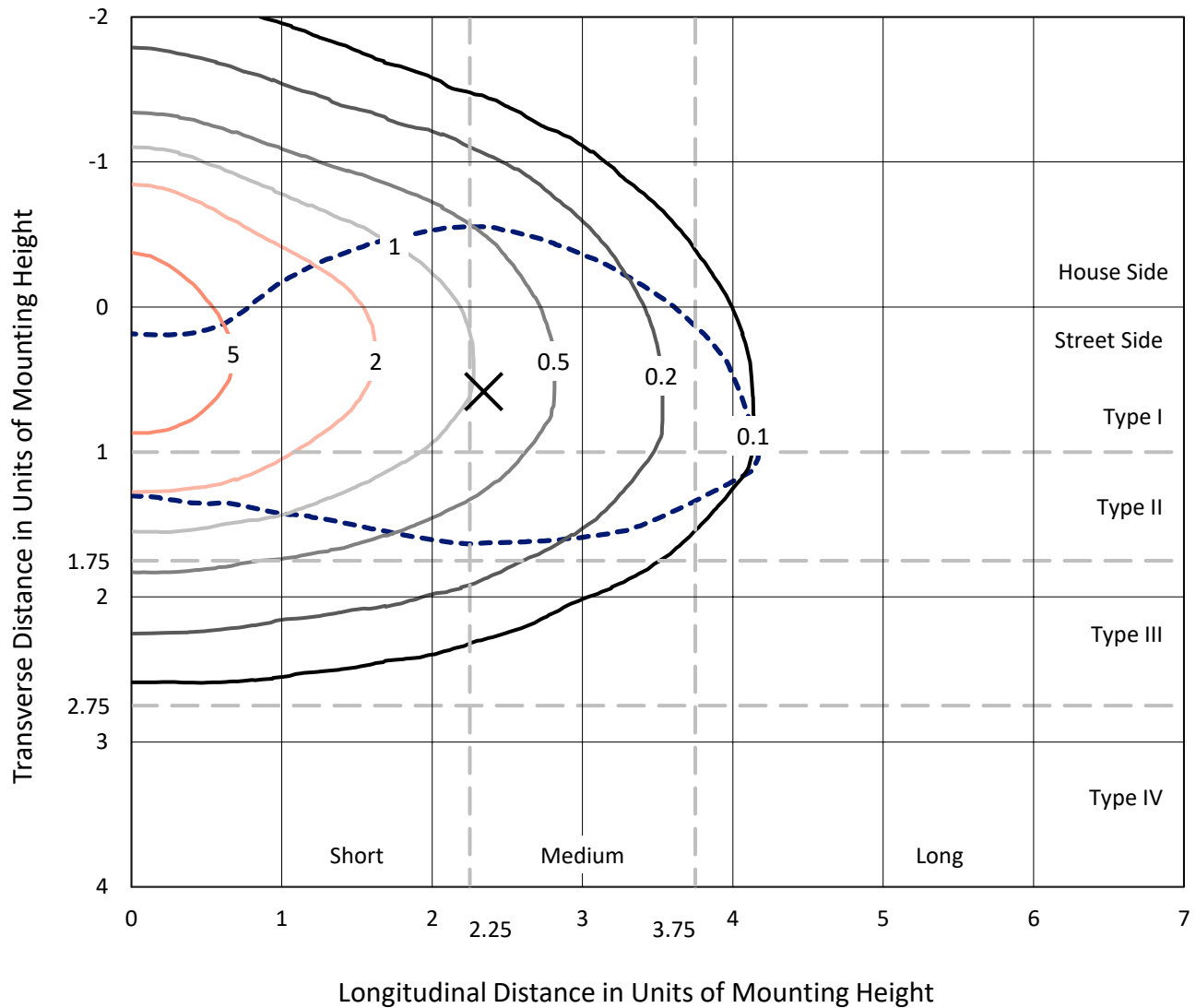


REPORT NUMBER: P836453

CATALOG NUMBER: ARCH3-190-722-U-T2U

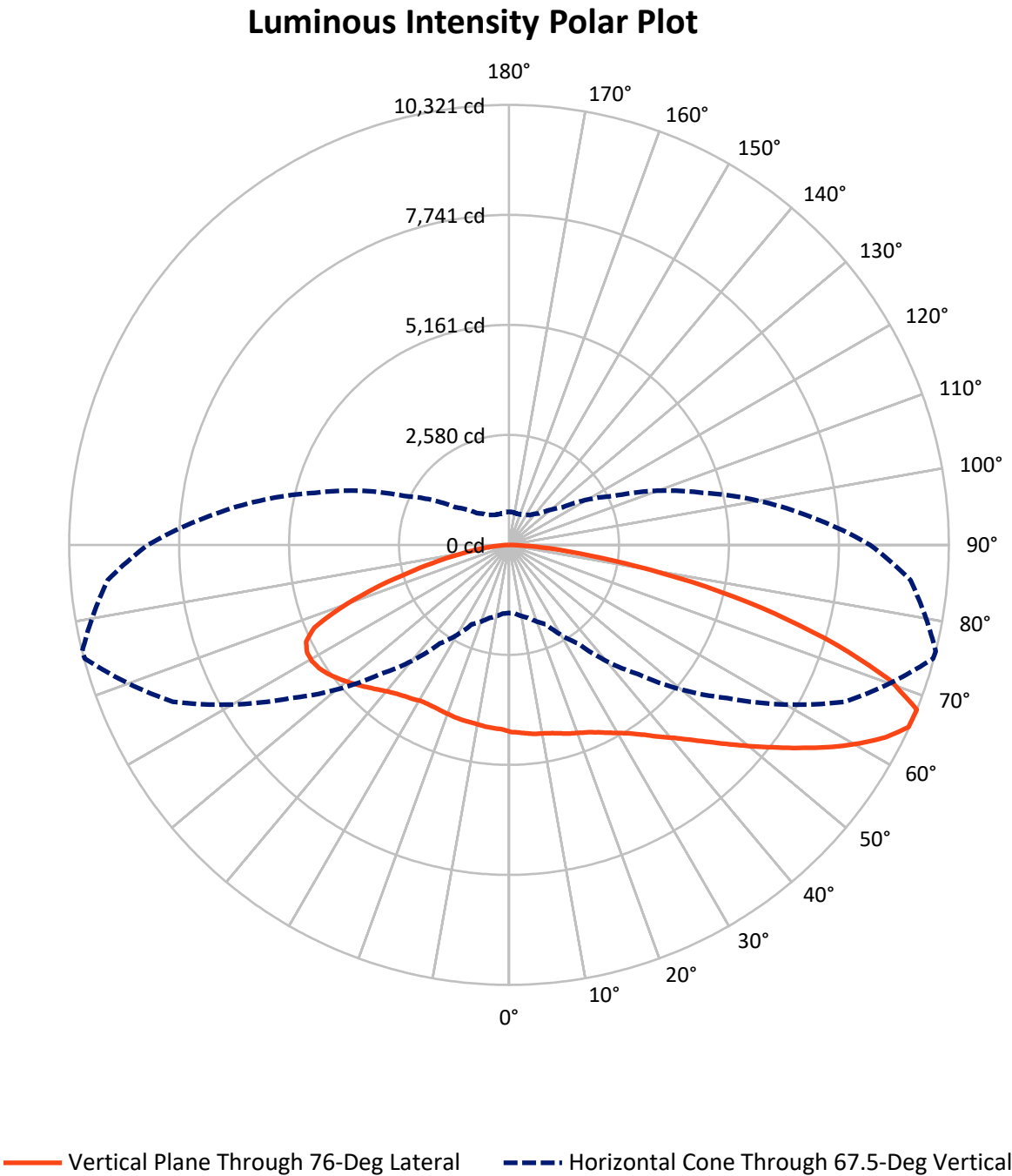
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Medium - N/A

REPORT NUMBER: P836453
CATALOG NUMBER: ARCH3-190-722-U-T2U



REPORT NUMBER: P836453

CATALOG NUMBER: ARCH3-190-722-U-T2U

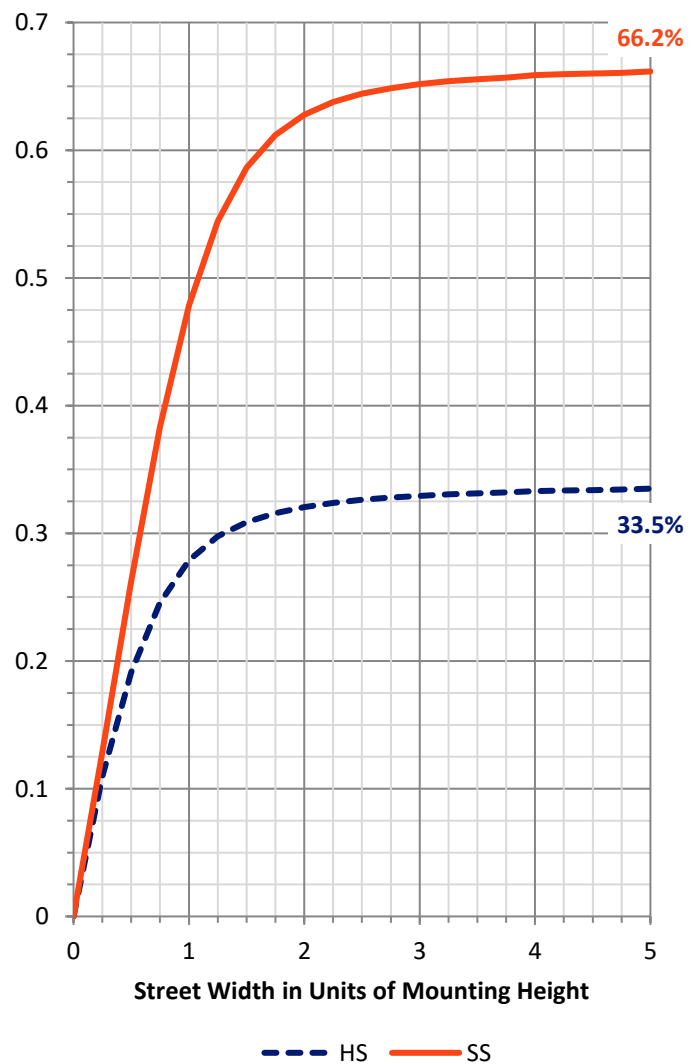
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7337.9	0.0	7337.9
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	14378.1	0.0	14378.1
	% Fixture	66.2	0.0	66.2
Total	Lumens	21716.0	0.0	21716.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.0	1.9
10°-20°	1293.1	6.0
20°-30°	2197.1	10.1
30°-40°	3126.2	14.4
40°-50°	3948.2	18.2
50°-60°	4274.7	19.7
60°-70°	3976.0	18.3
70°-80°	2135.4	9.8
80°-90°	342.2	1.6
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°	21716.0	100.0
0°-180°	21716.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836453

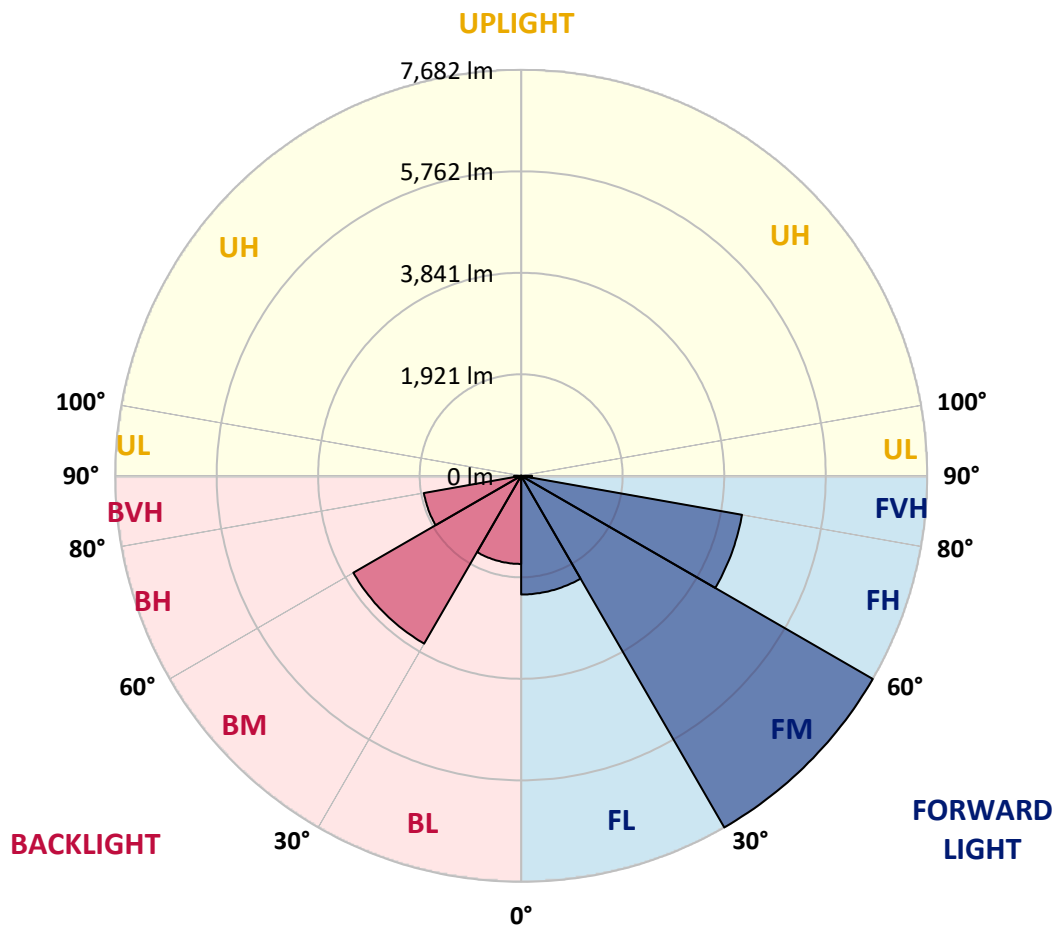
CATALOG NUMBER: ARCH3-190-722-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2245.7	10.3			
FM	(30°-60°)	7682.3	35.4			
FH	(60°-80°)	4243.1	19.5			G2/5000
FVH	(80°-90°)	207.0	1.0			G2/225
BL	(0°-30°)	1667.6	7.7	B3/2500		
BM	(30°-60°)	3666.9	16.9	B3/5000		
BH	(60°-80°)	1868.3	8.6	B3/2500		G3/2500
BVH	(80°-90°)	135.2	0.6			G2/225
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



REPORT NUMBER: P836453

CATALOG NUMBER: ARCH3-190-722-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6
2.5°	4519.6	4511.6	4479.3	4483.3	4483.3	4479.3	4430.9	4410.8	4410.8	4406.7	4362.4
5°	4680.9	4668.8	4632.5	4624.5	4608.3	4588.2	4511.6	4467.2	4447.1	4443.0	4382.6
7.5°	4870.4	4854.3	4809.9	4785.7	4745.4	4693.0	4596.2	4527.7	4479.3	4475.3	4390.6
10°	5059.9	5043.8	4991.4	4947.0	4890.6	4805.9	4680.9	4580.1	4503.5	4495.4	4394.6
12.5°	5285.7	5269.5	5205.0	5148.6	5063.9	4951.0	4785.7	4648.7	4543.8	4531.7	4406.7
15°	5523.5	5499.4	5434.8	5370.3	5265.5	5120.4	4922.8	4741.4	4608.3	4588.2	4443.0
17.5°	5721.1	5688.9	5636.4	5571.9	5455.0	5285.7	5059.9	4834.1	4668.8	4652.7	4479.3
20°	5890.4	5866.2	5809.8	5749.3	5624.3	5438.9	5188.9	4926.8	4725.3	4705.1	4507.5
22.5°	6051.7	6019.5	5987.2	5942.9	5805.8	5600.2	5338.1	5039.7	4797.8	4773.6	4543.8
25°	6237.2	6200.9	6188.8	6164.6	6003.3	5793.7	5519.5	5180.8	4898.6	4870.4	4608.3
27.5°	6467.0	6426.7	6402.5	6402.5	6209.0	5991.2	5713.0	5346.1	5015.5	4991.4	4689.0
30°	6708.9	6660.5	6624.2	6624.2	6406.5	6188.8	5902.5	5511.5	5148.6	5120.4	4793.8
32.5°	6922.6	6874.2	6833.9	6829.8	6604.1	6386.4	6100.1	5692.9	5309.9	5273.6	4922.8
35°	7087.9	7043.5	7007.2	7015.3	6801.6	6587.9	6321.8	5934.8	5511.5	5471.1	5092.1
37.5°	7188.7	7172.5	7152.4	7180.6	6983.1	6781.5	6551.7	6168.6	5741.3	5705.0	5301.8
40°	7241.1	7229.0	7309.6	7345.9	7136.3	6954.8	6781.5	6410.5	5991.2	5950.9	5543.7
42.5°	7317.7	7418.5	7450.7	7442.7	7249.2	7087.9	6991.1	6672.6	6285.6	6249.3	5834.0
45°	7043.5	7019.3	7196.7	7293.5	7257.2	7172.5	7188.7	6987.1	6628.3	6592.0	6168.6
47.5°	6676.6	6644.4	6745.2	6983.1	7124.2	7204.8	7366.1	7313.7	7023.4	6991.1	6559.7
50°	5902.5	5946.9	6321.8	6640.4	6918.5	7196.7	7515.3	7664.4	7458.8	7426.6	6979.0
52.5°	5043.8	5088.1	5479.2	6213.0	6668.6	7136.3	7624.1	8015.2	7930.5	7894.2	7426.6
55°	4418.8	4515.6	4959.1	5491.3	6313.8	6946.8	7688.6	8374.0	8438.5	8406.3	7914.4
57.5°	3797.9	3870.5	4205.2	4676.9	5830.0	6616.2	7684.6	8708.7	8970.7	8938.5	8410.3
60°	3068.2	3160.9	3427.0	3935.0	5184.9	6221.0	7571.7	8970.7	9482.8	9458.6	8890.1
62.5°	2568.2	2596.5	2786.0	3225.4	4354.3	5721.1	7317.7	9111.8	9946.4	9930.3	9321.5
65°	2068.3	2072.3	2245.7	2612.6	3552.0	5100.2	6886.3	9059.4	10297.2	10305.2	9631.9
67.5°	1596.6	1616.7	1774.0	2052.2	2822.3	4293.9	6269.4	8704.6	10301.2	10321.4	9454.5
70°	1104.7	1120.8	1358.7	1628.8	2181.2	3423.0	5434.8	7765.2	9454.5	9470.7	8474.8
72.5°	778.1	786.2	1040.2	1302.3	1705.4	2580.3	4100.3	6422.6	8059.5	8071.6	7128.2
75°	580.6	588.6	733.8	987.8	1306.3	1786.1	2802.1	4918.8	6438.8	6438.8	5628.4
77.5°	411.2	415.3	475.8	681.4	870.9	1205.5	1685.3	3221.4	4725.3	4733.3	4100.3
80°	278.2	282.2	310.4	459.6	544.3	653.1	915.2	1689.3	2979.5	2991.6	2604.5
82.5°	145.1	153.2	173.4	233.8	274.2	362.9	471.7	858.8	1649.0	1681.3	1564.3
85°	56.4	56.4	64.5	76.6	100.8	141.1	217.7	326.6	745.9	770.1	689.4
87.5°	20.2	20.2	24.2	24.2	28.2	32.3	36.3	48.4	84.7	84.7	80.6
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: P836453

CATALOG NUMBER: ARCH3-190-722-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6
2.5°	4346.3	4346.3	4326.1	4334.2	4330.1	4322.1	4314.0	4326.1	4314.0	4285.8	4281.8
5°	4354.3	4346.3	4314.0	4310.0	4297.9	4281.8	4261.6	4269.7	4249.5	4225.3	4221.3
7.5°	4358.4	4342.2	4297.9	4281.8	4257.6	4225.3	4193.1	4193.1	4164.8	4140.6	4136.6
10°	4350.3	4330.1	4269.7	4237.4	4193.1	4144.7	4100.3	4088.2	4056.0	4027.8	4027.8
12.5°	4354.3	4326.1	4249.5	4197.1	4136.6	4076.1	4019.7	4003.6	3975.3	3947.1	3943.1
15°	4378.5	4338.2	4241.4	4172.9	4084.2	4015.7	3955.2	3943.1	3918.9	3898.7	3898.7
17.5°	4402.7	4350.3	4229.3	4132.6	4023.7	3947.1	3890.7	3890.7	3874.5	3862.5	3862.5
20°	4414.8	4354.3	4205.2	4076.1	3951.2	3870.5	3818.1	3826.2	3822.1	3818.1	3818.1
22.5°	4443.0	4362.4	4185.0	4023.7	3874.5	3789.9	3741.5	3753.6	3749.6	3749.6	3753.6
25°	4487.4	4382.6	4168.9	3975.3	3802.0	3709.2	3656.8	3664.9	3664.9	3664.9	3664.9
27.5°	4547.9	4422.9	4164.8	3931.0	3729.4	3624.6	3560.1	3560.1	3543.9	3548.0	3552.0
30°	4640.6	4499.5	4172.9	3890.7	3652.8	3519.7	3443.1	3431.1	3427.0	3435.1	3439.1
32.5°	4753.5	4604.3	4221.3	3862.5	3572.2	3402.8	3306.1	3302.0	3289.9	3289.9	3289.9
35°	4894.6	4705.1	4265.6	3858.4	3491.5	3277.8	3173.0	3160.9	3132.7	3120.6	3120.6
37.5°	5076.0	4862.3	4318.0	3830.2	3423.0	3156.9	3031.9	2991.6	2959.3	2955.3	2955.3
40°	5297.8	5039.7	4394.6	3797.9	3350.4	3031.9	2866.6	2798.1	2802.1	2818.2	2818.2
42.5°	5559.8	5257.5	4491.4	3781.8	3245.6	2902.9	2673.1	2592.4	2620.7	2636.8	2640.8
45°	5866.2	5515.5	4600.3	3761.7	3148.8	2757.7	2467.5	2366.7	2378.8	2382.8	2386.8
47.5°	6221.0	5801.7	4713.2	3745.5	3040.0	2576.3	2241.7	2108.6	2104.6	2080.4	2088.5
50°	6592.0	6104.1	4830.1	3717.3	2906.9	2362.6	2003.8	1846.6	1814.3	1778.0	1782.0
52.5°	6987.1	6414.6	4938.9	3673.0	2741.6	2144.9	1778.0	1608.7	1544.2	1503.9	1511.9
55°	7422.5	6733.1	5043.8	3604.4	2568.2	1927.2	1576.4	1403.1	1322.4	1290.2	1294.2
57.5°	7821.7	7039.5	5120.4	3519.7	2378.8	1729.6	1399.0	1229.7	1177.3	1173.2	1177.3
60°	8208.7	7297.5	5152.6	3402.8	2185.2	1548.2	1233.7	1104.7	1068.4	1088.6	1092.6
62.5°	8535.3	7462.8	5136.5	3245.6	1987.7	1374.8	1100.7	1007.9	983.8	1024.1	1028.1
65°	8724.8	7515.3	5023.6	3019.8	1774.0	1205.5	975.7	874.9	862.8	887.0	899.1
67.5°	8474.8	7188.7	4717.2	2709.4	1536.1	1048.3	854.7	774.1	753.9	774.1	774.1
70°	7511.2	6229.1	3991.5	2217.5	1274.0	895.1	741.8	685.4	669.3	685.4	681.4
72.5°	6257.3	5180.8	3144.8	1729.6	1003.9	753.9	645.1	592.7	576.5	560.4	552.4
75°	4854.3	3935.0	2282.0	1270.0	758.0	604.8	540.3	491.9	451.6	467.7	459.6
77.5°	3556.0	2761.8	1616.7	878.9	544.3	467.7	423.3	387.1	358.8	391.1	387.1
80°	2290.1	1786.1	1080.5	588.6	375.0	326.6	310.4	290.3	318.5	415.3	423.3
82.5°	1399.0	1132.9	645.1	383.0	245.9	217.7	201.6	201.6	326.6	358.8	362.9
85°	624.9	600.7	350.8	197.6	137.1	125.0	112.9	145.1	133.0	96.8	100.8
87.5°	100.8	104.8	76.6	68.5	52.4	52.4	40.3	28.2	20.2	12.1	12.1
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)