

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: P835884

Luminaire Tested: **ARCH3-110-727-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835884
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: ARCH3-110-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16504 lumens
Efficiency: N/A
Efficacy: 147.5 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): 111.9
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

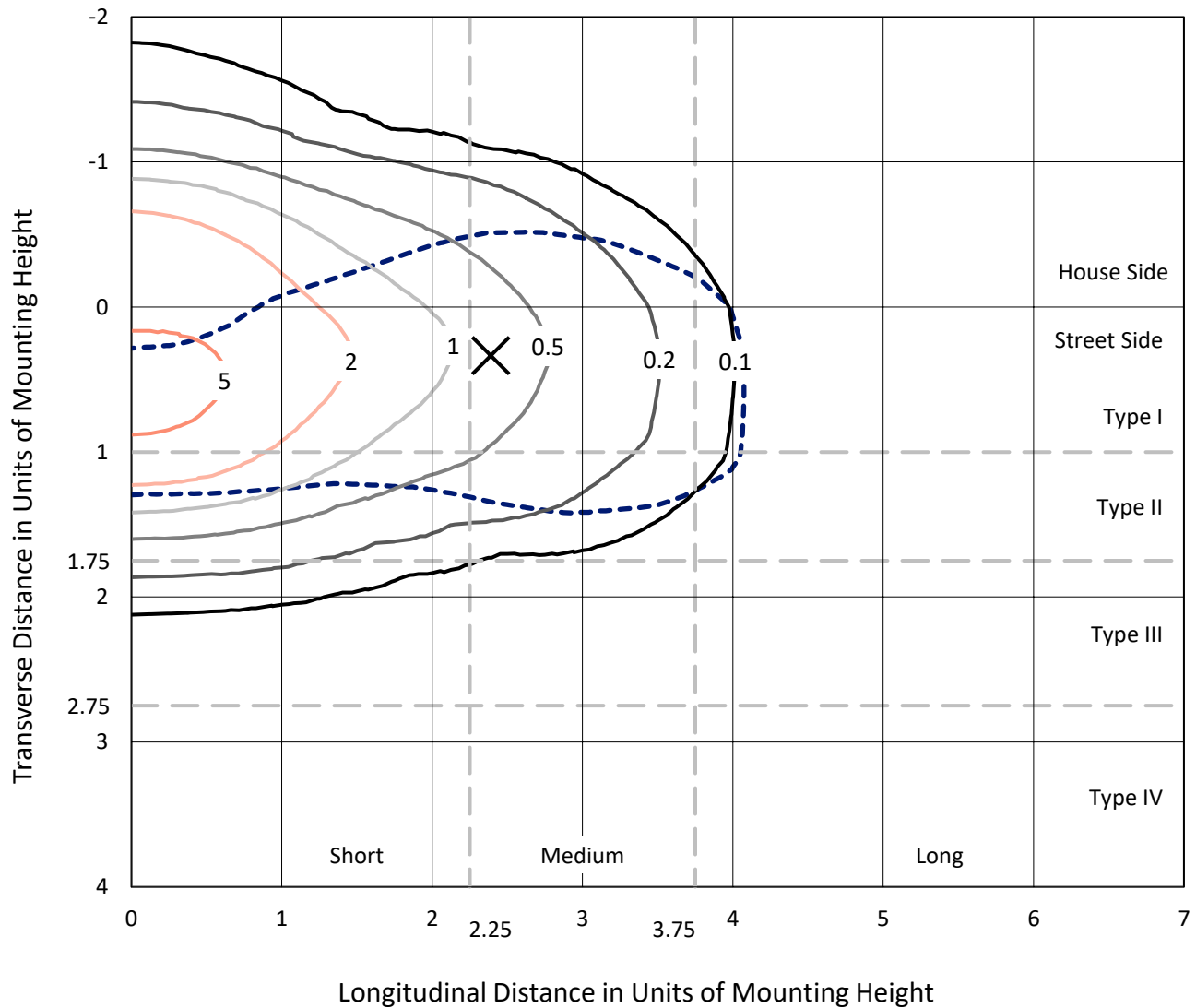


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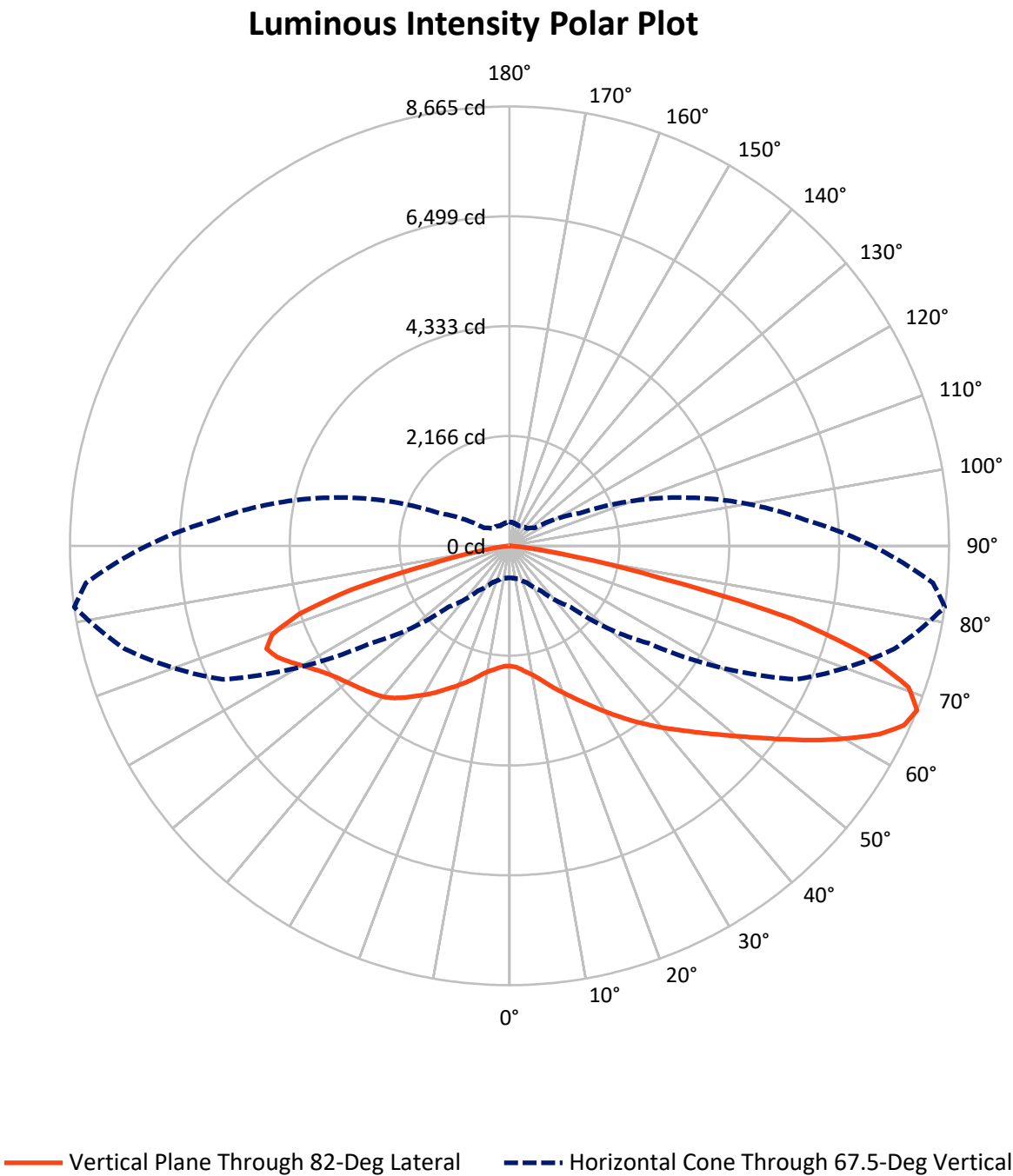
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Medium - N/A

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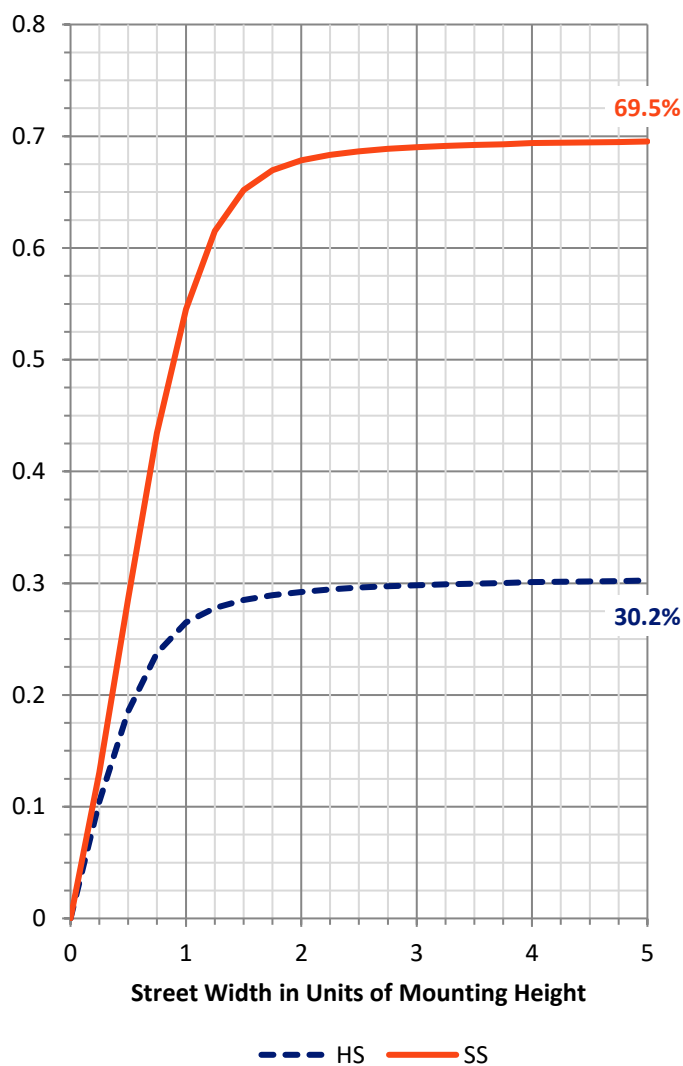
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5026.1	0.0	5026.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	11477.9	0.0	11477.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	16504.0	0.0	16504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.2	1.5
10°-20°	883.1	5.4
20°-30°	1774.9	10.8
30°-40°	2788.2	16.9
40°-50°	3396.5	20.6
50°-60°	3209.3	19.4
60°-70°	2650.1	16.1
70°-80°	1443.1	8.7
80°-90°	113.5	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°	16504.0	100.0
0°-180°	16504.0	100.0

Coefficient of Utilization



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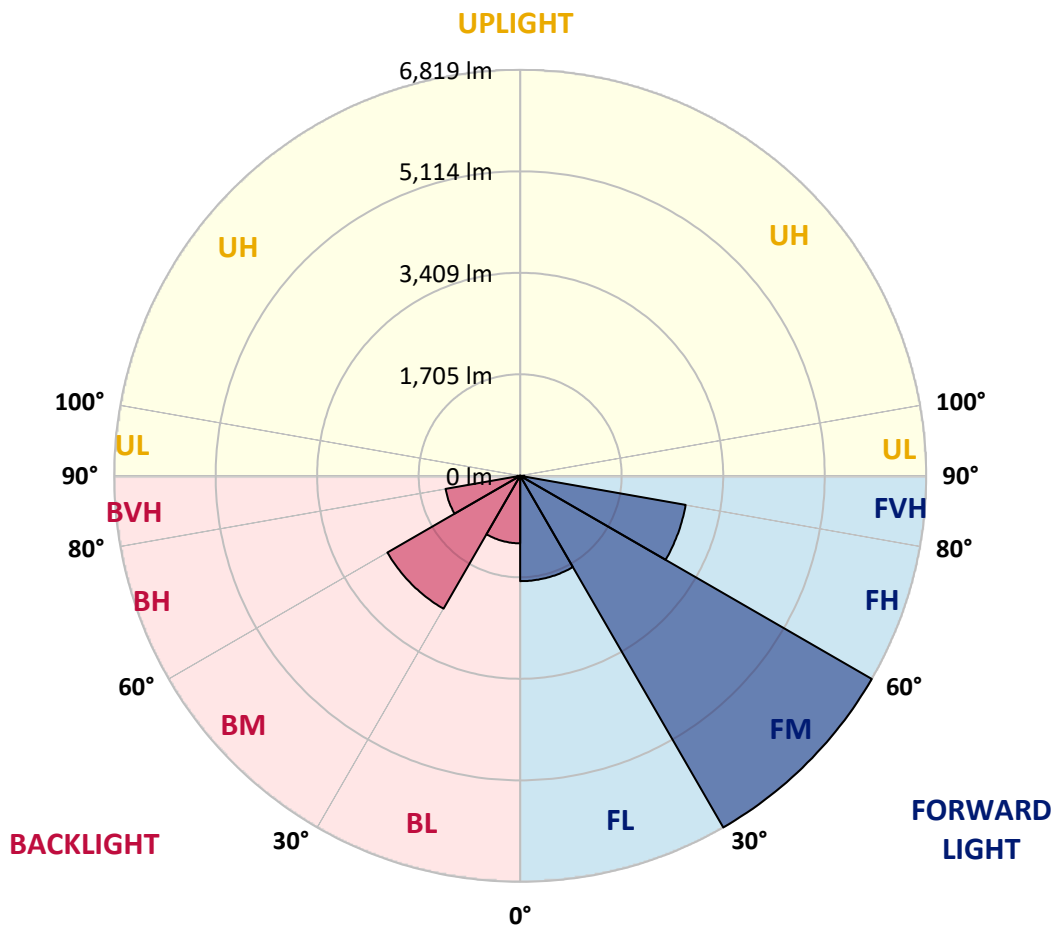
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1769.8	10.7			
FM	(30°-60°)	6818.5	41.3			
FH	(60°-80°)	2821.1	17.1			G2/5000
FVH	(80°-90°)	68.4	0.4			G1/100
BL	(0°-30°)	1133.4	6.9	B3/2500		
BM	(30°-60°)	2575.5	15.6	B3/5000		
BH	(60°-80°)	1272.1	7.7	B3/2500		G3/2500
BVH	(80°-90°)	45.1	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°	2372.4	2372.4	2372.4	2372.4	2372.4	2372.4	2372.4	2372.4	2372.4	2372.4	2372.4
2.5°	2480.3	2480.3	2499.5	2499.5	2482.7	2456.3	2449.1	2420.4	2394.0	2394.0	2396.4
5°	2717.5	2715.1	2729.5	2710.3	2669.6	2616.9	2580.9	2518.6	2465.9	2449.1	2446.7
7.5°	3007.5	3005.1	3012.3	2981.1	2904.4	2818.2	2746.3	2645.6	2559.4	2523.4	2513.8
10°	3331.0	3328.6	3321.4	3268.7	3165.7	3031.5	2923.6	2784.6	2655.2	2597.7	2585.7
12.5°	3702.4	3697.7	3680.9	3604.2	3462.8	3290.3	3134.5	2954.8	2782.2	2703.1	2676.8
15°	4117.0	4109.8	4078.7	3985.2	3795.9	3577.8	3376.5	3146.5	2935.6	2832.6	2796.6
17.5°	4553.2	4553.2	4505.2	4366.3	4155.4	3884.6	3635.3	3343.0	3096.2	2969.1	2926.0
20°	4996.5	4994.1	4934.2	4766.5	4517.2	4205.7	3889.4	3568.2	3261.5	3108.1	3055.4
22.5°	5463.8	5459.0	5384.7	5193.0	4895.9	4543.6	4174.5	3791.1	3443.6	3259.1	3192.0
25°	6000.6	5993.4	5902.3	5667.5	5315.2	4917.4	4495.7	4052.3	3652.1	3426.9	3347.8
27.5°	6570.9	6561.4	6453.5	6180.3	5794.5	5315.2	4850.3	4354.3	3882.2	3613.8	3525.1
30°	7079.0	7071.8	6954.4	6674.0	6230.7	5710.6	5188.2	4656.2	4124.2	3812.7	3702.4
32.5°	7462.4	7462.4	7357.0	7081.4	6621.3	6089.3	5528.5	4941.4	4375.8	4026.0	3896.6
35°	7694.9	7702.0	7611.0	7390.5	6956.8	6446.3	5880.8	5276.9	4644.2	4253.6	4114.6
37.5°	7728.4	7752.4	7699.7	7551.1	7189.2	6743.5	6225.9	5600.4	4922.2	4483.7	4327.9
40°	7572.6	7589.4	7591.8	7534.3	7285.1	6956.8	6530.2	5943.1	5217.0	4725.7	4546.0
42.5°	7261.1	7273.1	7294.7	7311.4	7215.6	7050.2	6762.7	6261.8	5530.9	4972.5	4761.7
45°	6858.5	6856.1	6892.1	6964.0	6959.2	6997.5	6892.1	6551.8	5856.8	5252.9	5001.3
47.5°	6257.0	6245.0	6372.0	6535.0	6616.5	6796.2	6894.5	6779.4	6211.5	5562.1	5274.5
50°	5315.2	5303.2	5581.2	5964.7	6204.3	6477.5	6762.7	6916.0	6582.9	5909.5	5571.6
52.5°	4169.7	4157.8	4510.0	5181.0	5703.4	6101.2	6496.7	6947.2	6935.2	6297.8	5907.1
55°	3100.9	3091.4	3434.0	4160.2	5006.1	5665.1	6170.7	6865.7	7265.9	6743.5	6314.5
57.5°	2185.5	2180.7	2477.9	3079.4	4109.8	5133.1	5856.8	6707.5	7570.2	7227.6	6774.6
60°	1533.7	1526.5	1742.2	2207.1	3108.1	4330.3	5545.3	6496.7	7797.9	7704.4	7263.5
62.5°	1032.9	1028.1	1181.4	1569.6	2207.1	3333.4	5073.2	6355.3	7927.3	8183.7	7757.2
65°	783.6	781.2	850.7	1064.0	1562.5	2394.0	4323.1	6338.5	7944.1	8543.2	8176.5
67.5°	632.7	635.0	673.4	795.6	1080.8	1701.4	3352.6	6233.1	7855.4	8665.4	8380.2
70°	517.6	517.6	534.4	615.9	798.0	1147.9	2341.3	5753.8	7608.6	8346.7	8138.2
72.5°	395.4	397.8	450.5	498.5	601.5	805.2	1500.1	4761.7	7026.3	7359.4	7201.2
75°	313.9	311.5	342.7	409.8	467.3	575.1	920.2	3414.9	5979.0	5751.4	5650.7
77.5°	225.3	222.9	246.8	304.3	354.7	407.4	548.8	1723.0	3251.9	2988.3	2914.0
80°	153.4	148.6	170.1	210.9	234.8	239.6	268.4	661.4	1418.7	1337.2	1320.4
82.5°	79.1	79.1	91.1	119.8	122.2	124.6	119.8	213.3	469.7	438.5	419.4
85°	31.2	31.2	33.5	40.7	40.7	43.1	43.1	55.1	50.3	47.9	45.5
87.5°	2.4	2.4	4.8	4.8	7.2	7.2	7.2	9.6	12.0	12.0	12.0
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°	2372.4	2372.4	2372.4	2372.4	2372.4	2372.4	2372.4	2372.4	2372.4	2372.4	2372.4
2.5°	2391.6	2382.0	2350.9	2343.7	2338.9	2331.7	2334.1	2317.3	2310.1	2312.5	2302.9
5°	2434.7	2418.0	2379.6	2362.9	2358.1	2350.9	2358.1	2346.1	2334.1	2338.9	2334.1
7.5°	2494.7	2470.7	2422.8	2406.0	2403.6	2396.4	2406.0	2396.4	2386.8	2391.6	2382.0
10°	2557.0	2525.8	2473.1	2456.3	2456.3	2453.9	2463.5	2449.1	2439.5	2441.9	2437.1
12.5°	2648.0	2607.3	2549.8	2535.4	2528.2	2535.4	2537.8	2518.6	2501.8	2504.2	2497.1
15°	2758.3	2712.7	2650.4	2628.9	2624.1	2621.7	2612.1	2588.1	2566.6	2564.2	2557.0
17.5°	2878.1	2820.6	2746.3	2724.7	2703.1	2696.0	2672.0	2640.8	2607.3	2607.3	2597.7
20°	2993.1	2928.4	2839.7	2808.6	2777.4	2748.7	2707.9	2657.6	2614.5	2607.3	2597.7
22.5°	3117.7	3041.0	2938.0	2892.5	2837.3	2779.8	2710.3	2643.2	2588.1	2576.1	2568.9
25°	3256.7	3160.9	3038.6	2971.5	2882.9	2794.2	2691.2	2604.9	2540.2	2521.0	2516.2
27.5°	3410.1	3295.1	3146.5	3048.2	2918.8	2779.8	2648.0	2545.0	2465.9	2441.9	2434.7
30°	3565.9	3429.3	3244.7	3100.9	2918.8	2734.3	2568.9	2449.1	2358.1	2324.5	2319.7
32.5°	3721.6	3568.2	3333.4	3129.7	2890.1	2657.6	2465.9	2324.5	2221.5	2180.7	2190.3
35°	3908.5	3721.6	3414.9	3141.7	2842.1	2564.2	2348.5	2183.1	2077.7	2041.7	2048.9
37.5°	4102.6	3875.0	3479.6	3132.1	2775.0	2458.7	2216.7	2056.1	1924.3	1862.0	1869.2
40°	4270.4	4014.0	3525.1	3098.6	2688.8	2338.9	2087.3	1876.4	1694.3	1634.3	1627.2
42.5°	4428.6	4117.0	3549.1	3048.2	2590.5	2199.9	1902.7	1632.0	1449.8	1375.5	1377.9
45°	4593.9	4217.7	3539.5	2981.1	2468.3	2036.9	1665.5	1392.3	1231.8	1164.7	1167.0
47.5°	4783.2	4325.5	3529.9	2909.2	2319.7	1826.1	1437.8	1181.4	1042.4	994.5	989.7
50°	4984.5	4445.3	3517.9	2820.6	2154.4	1591.2	1212.6	984.9	867.5	836.3	829.2
52.5°	5212.2	4574.7	3510.7	2715.1	1955.5	1342.0	1011.3	812.4	733.3	711.7	709.3
55°	5485.4	4725.7	3520.3	2588.1	1715.8	1107.1	841.1	699.8	647.0	635.0	632.7
57.5°	5818.5	4919.8	3549.1	2439.5	1464.2	903.4	716.5	630.3	596.7	587.1	587.1
60°	6180.3	5140.3	3601.8	2271.8	1212.6	745.3	635.0	575.1	560.8	572.7	572.7
62.5°	6570.9	5399.1	3695.3	2068.1	977.7	630.3	570.3	529.6	520.0	544.0	546.4
65°	6932.8	5650.7	3755.2	1823.7	776.4	546.4	520.0	484.1	488.9	512.8	510.4
67.5°	7155.7	5859.2	3671.3	1516.9	615.9	484.1	467.3	436.1	448.1	467.3	469.7
70°	7019.1	5741.8	3256.7	1145.5	481.7	421.8	409.8	390.6	400.2	424.2	433.7
72.5°	6350.5	5142.7	2533.0	774.0	388.2	354.7	359.5	349.9	361.9	383.4	405.0
75°	5154.7	3887.0	1699.1	496.1	306.7	301.9	309.1	301.9	306.7	328.3	340.3
77.5°	2691.2	1895.6	845.9	309.1	227.7	234.8	246.8	249.2	263.6	268.4	273.2
80°	1255.7	853.1	352.3	172.5	151.0	165.4	189.3	191.7	196.5	203.7	206.1
82.5°	409.8	256.4	163.0	93.5	86.3	93.5	122.2	146.2	148.6	163.0	163.0
85°	43.1	26.4	35.9	38.3	33.5	40.7	55.1	52.7	24.0	14.4	14.4
87.5°	12.0	9.6	12.0	12.0	9.6	9.6	7.2	2.4	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)