

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: P835947

Luminaire Tested: **ARCH3-120-722-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835947
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: ARCH3-120-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16134 lumens
Efficiency: N/A
Efficacy: 131.5 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): 122.7
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



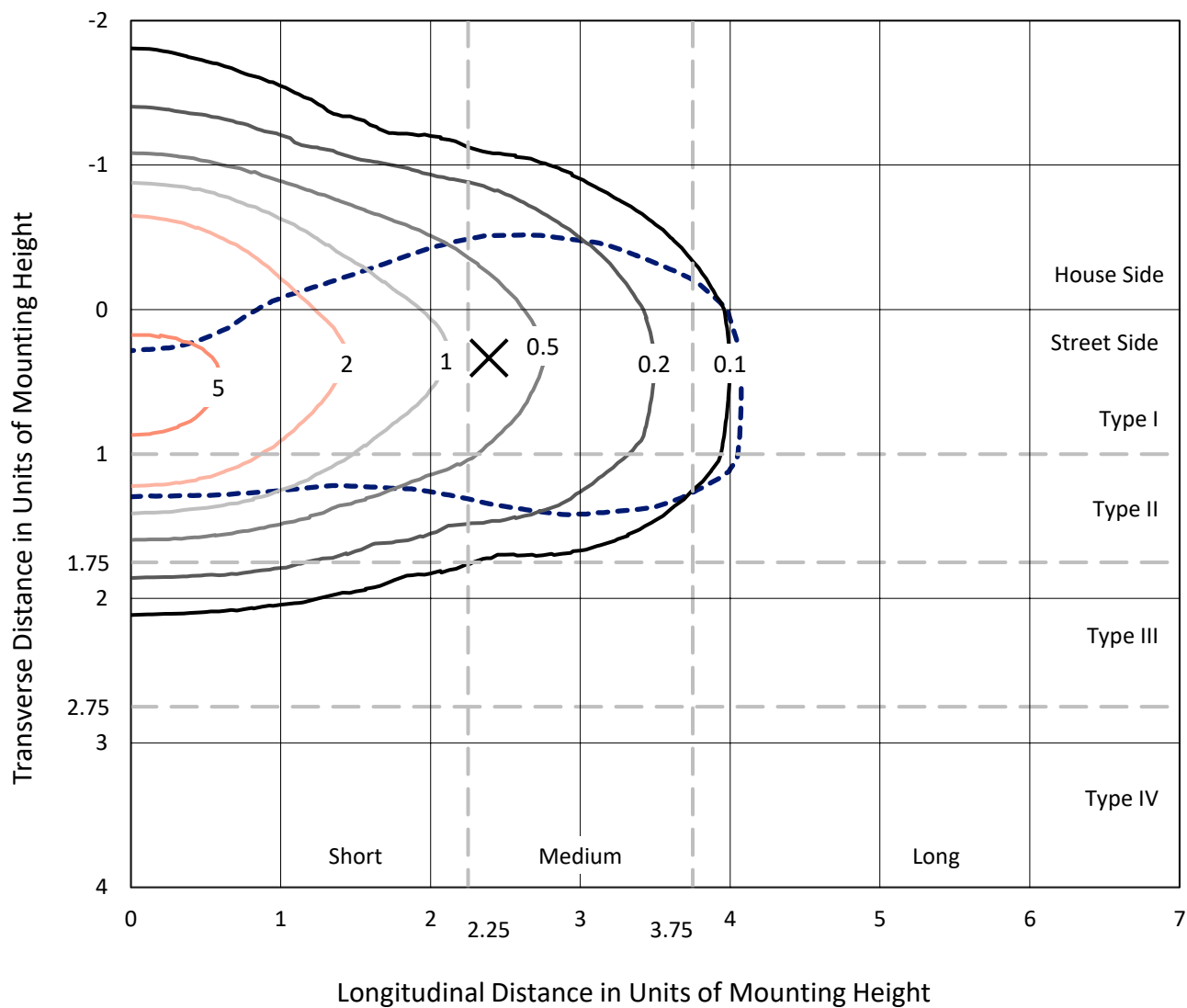
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Iso-Footcandle Lines of Horizontal Illumination

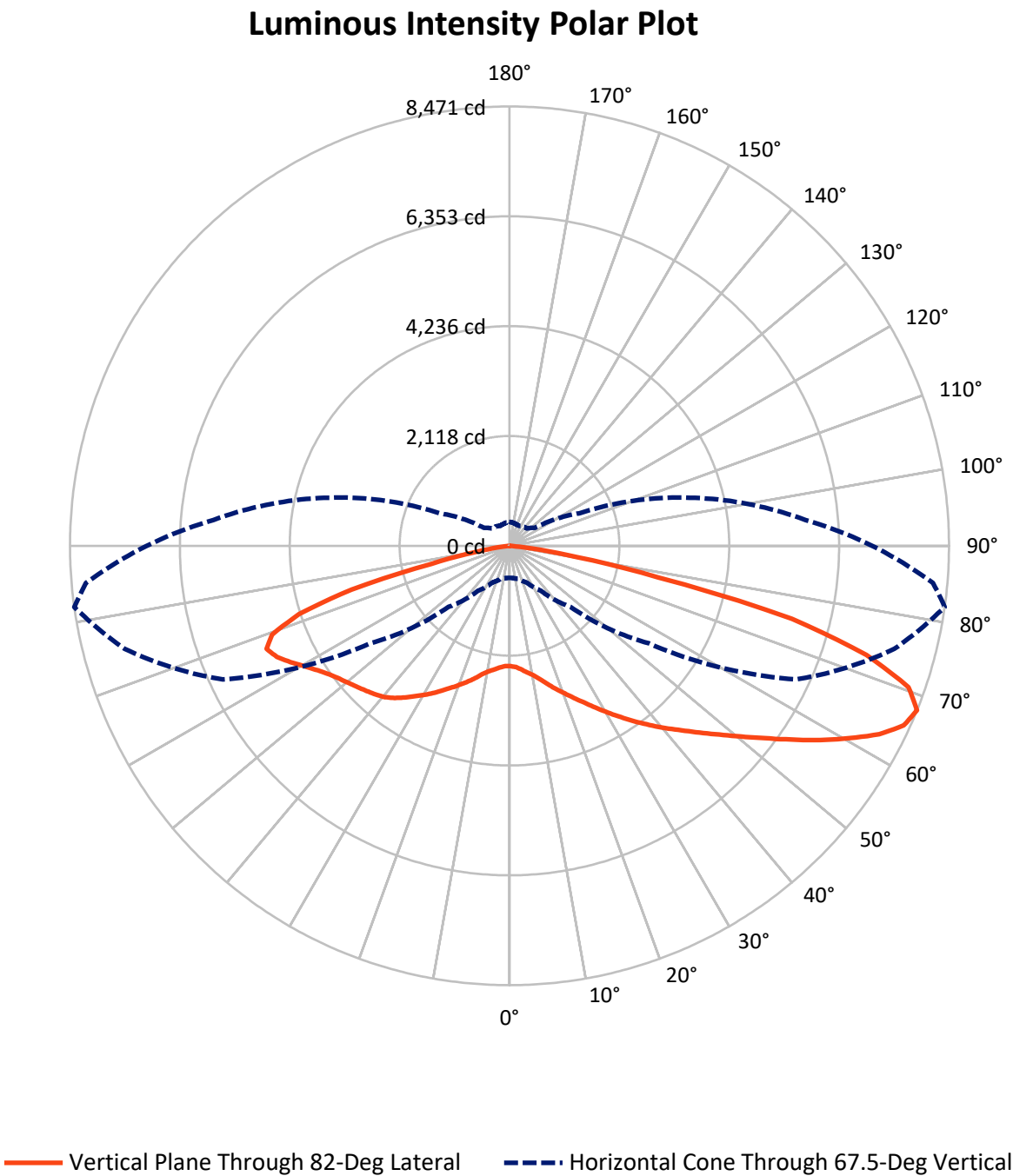
✕ Max cd

--- 1/2 Max cd



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

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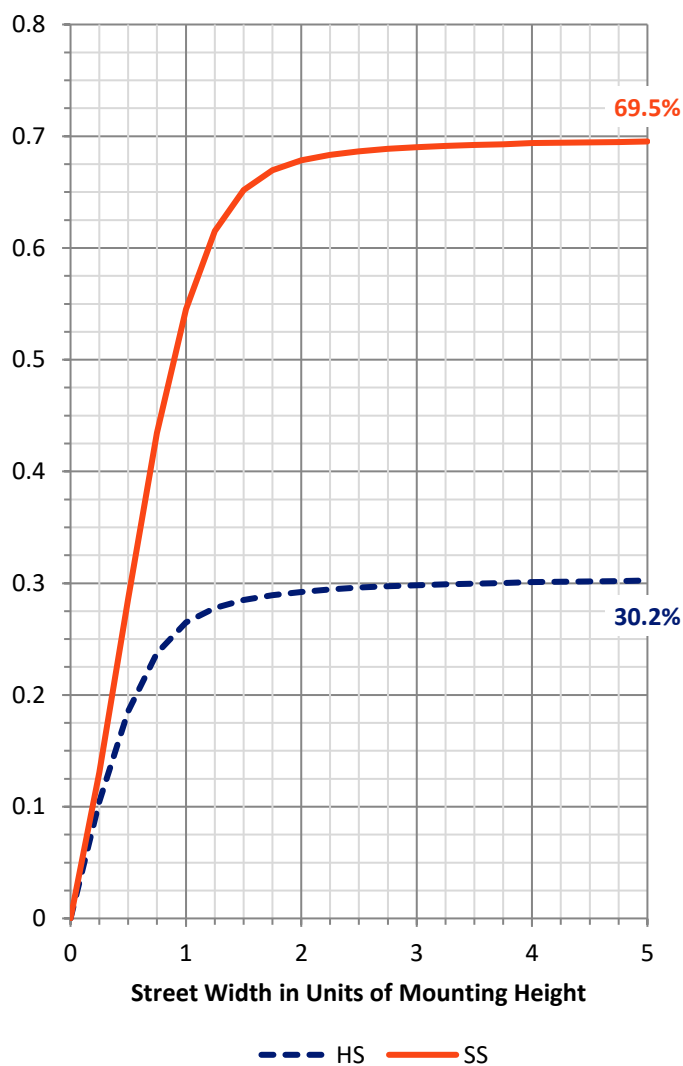
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4913.5	0.0	4913.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	11220.5	0.0	11220.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	16134.0	0.0	16134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.7	1.5
10°-20°	863.3	5.4
20°-30°	1735.1	10.8
30°-40°	2725.7	16.9
40°-50°	3320.4	20.6
50°-60°	3137.4	19.4
60°-70°	2590.7	16.1
70°-80°	1410.8	8.7
80°-90°	110.9	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°	16134.0	100.0
0°-180°	16134.0	100.0

Coefficient of Utilization



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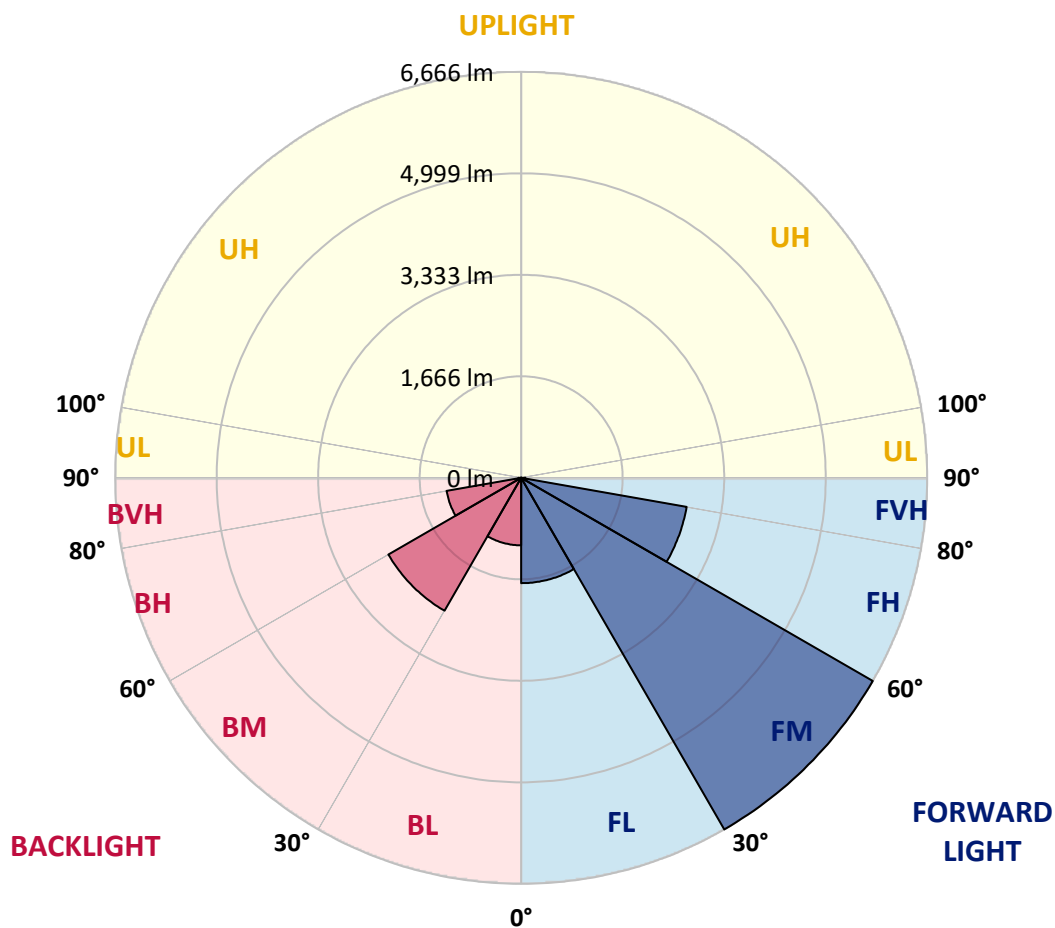
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1730.2	10.7			
FM	(30°-60°)	6665.6	41.3			
FH	(60°-80°)	2757.9	17.1			G2/5000
FVH	(80°-90°)	66.9	0.4			G1/100
BL	(0°-30°)	1108.0	6.9	B3/2500		
BM	(30°-60°)	2517.8	15.6	B3/5000		
BH	(60°-80°)	1243.6	7.7	B3/2500		G3/2500
BVH	(80°-90°)	44.1	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°	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3
2.5°	2424.7	2424.7	2443.4	2443.4	2427.0	2401.2	2394.2	2366.1	2340.3	2340.3	2342.7
5°	2656.6	2654.3	2668.3	2649.6	2609.7	2558.2	2523.1	2462.2	2410.6	2394.2	2391.9
7.5°	2940.1	2937.7	2944.7	2914.3	2839.3	2755.0	2684.7	2586.3	2502.0	2466.8	2457.5
10°	3256.3	3254.0	3247.0	3195.4	3094.7	2963.5	2858.1	2722.2	2595.7	2539.5	2527.8
12.5°	3619.4	3614.8	3598.4	3523.4	3385.2	3216.5	3064.2	2888.5	2719.9	2642.5	2616.8
15°	4024.7	4017.7	3987.2	3895.9	3710.8	3497.6	3300.8	3075.9	2869.8	2769.0	2733.9
17.5°	4451.1	4451.1	4404.2	4268.4	4062.2	3797.5	3553.8	3268.0	3026.7	2902.6	2860.4
20°	4884.5	4882.1	4823.6	4659.6	4416.0	4111.4	3802.2	3488.3	3188.4	3038.5	2986.9
22.5°	5341.3	5336.6	5264.0	5076.6	4786.1	4441.7	4081.0	3706.1	3366.4	3186.0	3120.5
25°	5866.1	5859.0	5770.0	5540.4	5196.1	4807.2	4394.9	3961.5	3570.2	3350.0	3272.7
27.5°	6423.6	6414.3	6308.8	6041.8	5664.6	5196.1	4741.6	4256.7	3795.1	3532.8	3446.1
30°	6920.3	6913.3	6798.5	6524.4	6091.0	5582.6	5071.9	4551.8	4031.8	3727.2	3619.4
32.5°	7295.1	7295.1	7192.0	6922.6	6472.8	5952.8	5404.6	4830.6	4277.7	3935.7	3809.2
35°	7522.3	7529.4	7440.4	7224.8	6800.8	6301.8	5748.9	5158.6	4540.1	4158.3	4022.4
37.5°	7555.1	7578.6	7527.0	7381.8	7028.0	6592.3	6086.3	5474.8	4811.9	4383.2	4230.9
40°	7402.9	7419.3	7421.6	7365.4	7121.8	6800.8	6383.8	5809.8	5100.0	4619.8	4444.1
42.5°	7098.3	7110.0	7131.1	7147.5	7053.8	6892.2	6611.0	6121.4	5406.9	4861.1	4654.9
45°	6704.8	6702.4	6737.6	6807.8	6803.1	6840.6	6737.6	6404.9	5725.5	5135.2	4889.2
47.5°	6116.7	6105.0	6229.2	6388.5	6468.1	6643.8	6739.9	6627.4	6072.2	5437.4	5156.2
50°	5196.1	5184.4	5456.1	5830.9	6065.2	6332.3	6611.0	6761.0	6435.3	5777.1	5446.7
52.5°	4076.3	4064.6	4408.9	5064.9	5575.6	5964.5	6351.0	6791.4	6779.7	6156.6	5774.7
55°	3031.4	3022.1	3357.1	4066.9	4893.9	5538.1	6032.4	6711.8	7103.0	6592.3	6173.0
57.5°	2136.5	2131.8	2422.3	3010.3	4017.7	5018.0	5725.5	6557.2	7400.5	7065.5	6622.8
60°	1499.3	1492.3	1703.1	2157.6	3038.5	4233.2	5421.0	6351.0	7623.1	7531.7	7100.7
62.5°	1009.7	1005.0	1154.9	1534.5	2157.6	3258.7	4959.5	6212.8	7749.6	8000.3	7583.3
65°	766.1	763.7	831.7	1040.2	1527.4	2340.3	4226.2	6196.4	7766.0	8351.7	7993.2
67.5°	618.5	620.8	658.3	777.8	1056.5	1663.3	3277.4	6093.3	7679.3	8471.1	8192.4
70°	506.0	506.0	522.4	602.1	780.1	1122.1	2288.8	5624.8	7438.0	8159.6	7955.7
72.5°	386.5	388.9	440.4	487.3	588.0	787.1	1466.5	4654.9	6868.7	7194.4	7039.8
75°	306.9	304.5	335.0	400.6	456.8	562.2	899.6	3338.3	5845.0	5622.4	5524.0
77.5°	220.2	217.9	241.3	297.5	346.7	398.3	536.5	1684.4	3179.0	2921.3	2848.7
80°	149.9	145.2	166.3	206.2	229.6	234.3	262.4	646.6	1386.9	1307.2	1290.8
82.5°	77.3	77.3	89.0	117.1	119.5	121.8	117.1	208.5	459.2	428.7	410.0
85°	30.5	30.5	32.8	39.8	39.8	42.2	42.2	53.9	49.2	46.9	44.5
87.5°	2.3	2.3	4.7	4.7	7.0	7.0	7.0	9.4	11.7	11.7	11.7
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°	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3
2.5°	2338.0	2328.6	2298.2	2291.1	2286.5	2279.4	2281.8	2265.4	2258.3	2260.7	2251.3
5°	2380.2	2363.8	2326.3	2309.9	2305.2	2298.2	2305.2	2293.5	2281.8	2286.5	2281.8
7.5°	2438.7	2415.3	2368.5	2352.1	2349.7	2342.7	2352.1	2342.7	2333.3	2338.0	2328.6
10°	2499.6	2469.2	2417.6	2401.2	2401.2	2398.9	2408.3	2394.2	2384.8	2387.2	2382.5
12.5°	2588.7	2548.8	2492.6	2478.6	2471.5	2478.6	2480.9	2462.2	2445.8	2448.1	2441.1
15°	2696.4	2651.9	2591.0	2569.9	2565.2	2562.9	2553.5	2530.1	2509.0	2506.7	2499.6
17.5°	2813.6	2757.3	2684.7	2663.6	2642.5	2635.5	2612.1	2581.6	2548.8	2548.8	2539.5
20°	2926.0	2862.8	2776.1	2745.6	2715.2	2687.1	2647.2	2598.0	2555.9	2548.8	2539.5
22.5°	3047.8	2972.9	2872.1	2827.6	2773.7	2717.5	2649.6	2584.0	2530.1	2518.4	2511.4
25°	3183.7	3090.0	2970.5	2904.9	2818.2	2731.6	2630.8	2546.5	2483.2	2464.5	2459.8
27.5°	3333.6	3221.2	3075.9	2979.9	2853.4	2717.5	2588.7	2487.9	2410.6	2387.2	2380.2
30°	3485.9	3352.4	3172.0	3031.4	2853.4	2673.0	2511.4	2394.2	2305.2	2272.4	2267.7
32.5°	3638.2	3488.3	3258.7	3059.5	2825.3	2598.0	2410.6	2272.4	2171.7	2131.8	2141.2
35°	3820.9	3638.2	3338.3	3071.3	2778.4	2506.7	2295.8	2134.2	2031.1	1996.0	2003.0
37.5°	4010.7	3788.1	3401.6	3061.9	2712.8	2403.6	2167.0	2010.0	1881.2	1820.3	1827.3
40°	4174.7	3924.0	3446.1	3029.1	2628.5	2286.5	2040.5	1834.3	1656.3	1597.7	1590.7
42.5°	4329.3	4024.7	3469.5	2979.9	2532.4	2150.6	1860.1	1595.4	1417.3	1344.7	1347.0
45°	4490.9	4123.1	3460.1	2914.3	2413.0	1991.3	1628.2	1361.1	1204.1	1138.5	1140.9
47.5°	4676.0	4228.5	3450.8	2844.0	2267.7	1785.1	1405.6	1154.9	1019.1	972.2	967.5
50°	4872.8	4345.7	3439.1	2757.3	2106.1	1555.5	1185.4	962.8	848.1	817.6	810.6
52.5°	5095.3	4472.2	3432.0	2654.3	1911.6	1311.9	988.6	794.2	716.9	695.8	693.4
55°	5362.4	4619.8	3441.4	2530.1	1677.4	1082.3	822.3	684.1	632.5	620.8	618.5
57.5°	5688.0	4809.5	3469.5	2384.8	1431.4	883.2	700.5	616.1	583.3	574.0	574.0
60°	6041.8	5025.1	3521.0	2220.9	1185.4	728.6	620.8	562.2	548.2	559.9	559.9
62.5°	6423.6	5278.1	3612.4	2021.7	955.8	616.1	557.6	517.7	508.4	531.8	534.1
65°	6777.4	5524.0	3671.0	1782.8	759.0	534.1	508.4	473.2	477.9	501.3	499.0
67.5°	6995.2	5727.9	3589.0	1482.9	602.1	473.2	456.8	426.4	438.1	456.8	459.2
70°	6861.7	5613.1	3183.7	1119.8	470.9	412.3	400.6	381.9	391.2	414.7	424.0
72.5°	6208.1	5027.4	2476.2	756.7	379.5	346.7	351.4	342.0	353.7	374.8	395.9
75°	5039.1	3799.8	1661.0	484.9	299.9	295.2	302.2	295.2	299.9	320.9	332.7
77.5°	2630.8	1853.1	827.0	302.2	222.6	229.6	241.3	243.6	257.7	262.4	267.1
80°	1227.6	834.0	344.4	168.7	147.6	161.6	185.1	187.4	192.1	199.1	201.5
82.5°	400.6	250.7	159.3	91.4	84.3	91.4	119.5	142.9	145.2	159.3	159.3
85°	42.2	25.8	35.1	37.5	32.8	39.8	53.9	51.5	23.4	14.1	14.1
87.5°	11.7	9.4	11.7	11.7	9.4	9.4	7.0	2.3	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)