

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: P1211701

Luminaire Tested: **ARCH4-90-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13581 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.1
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

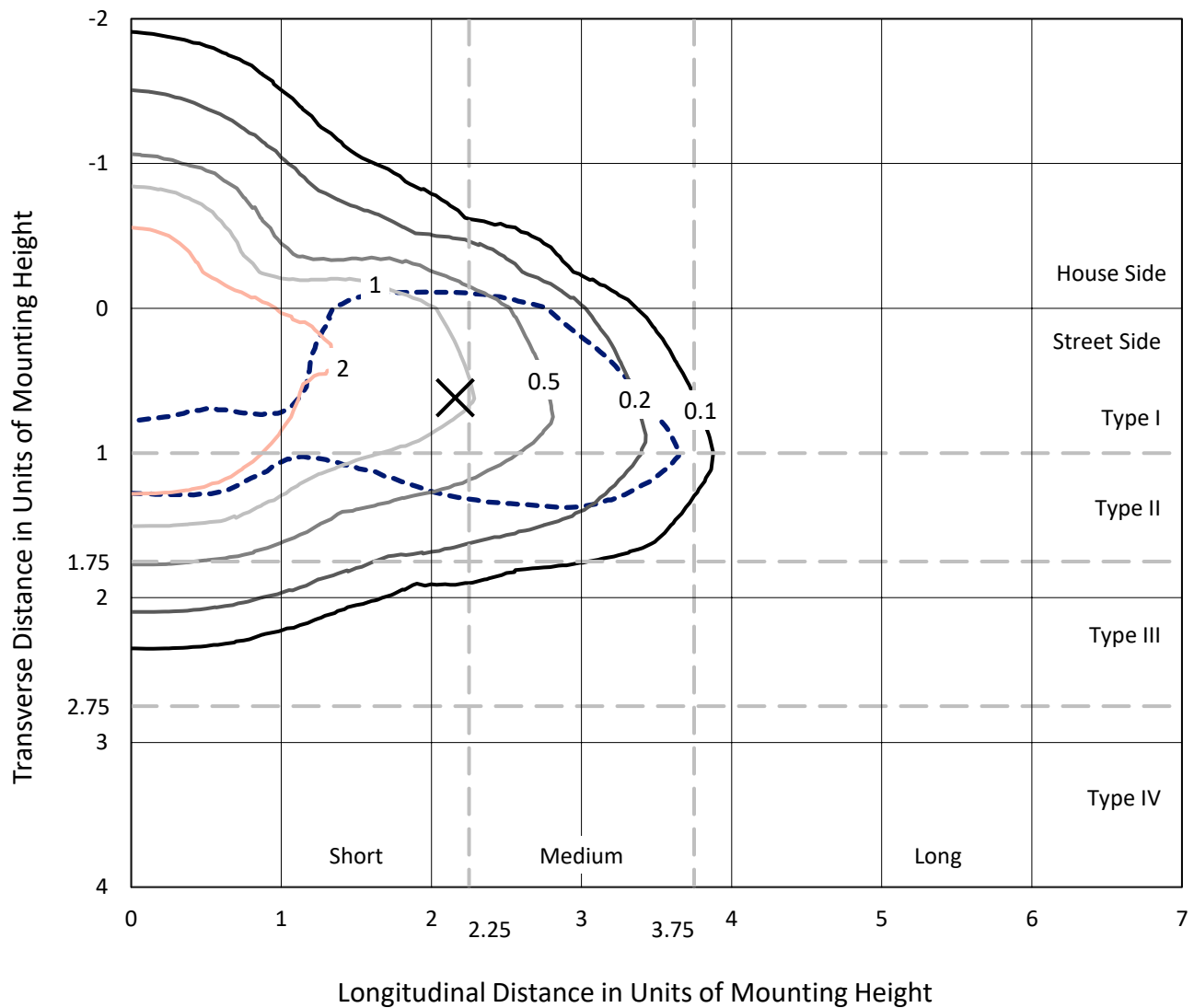


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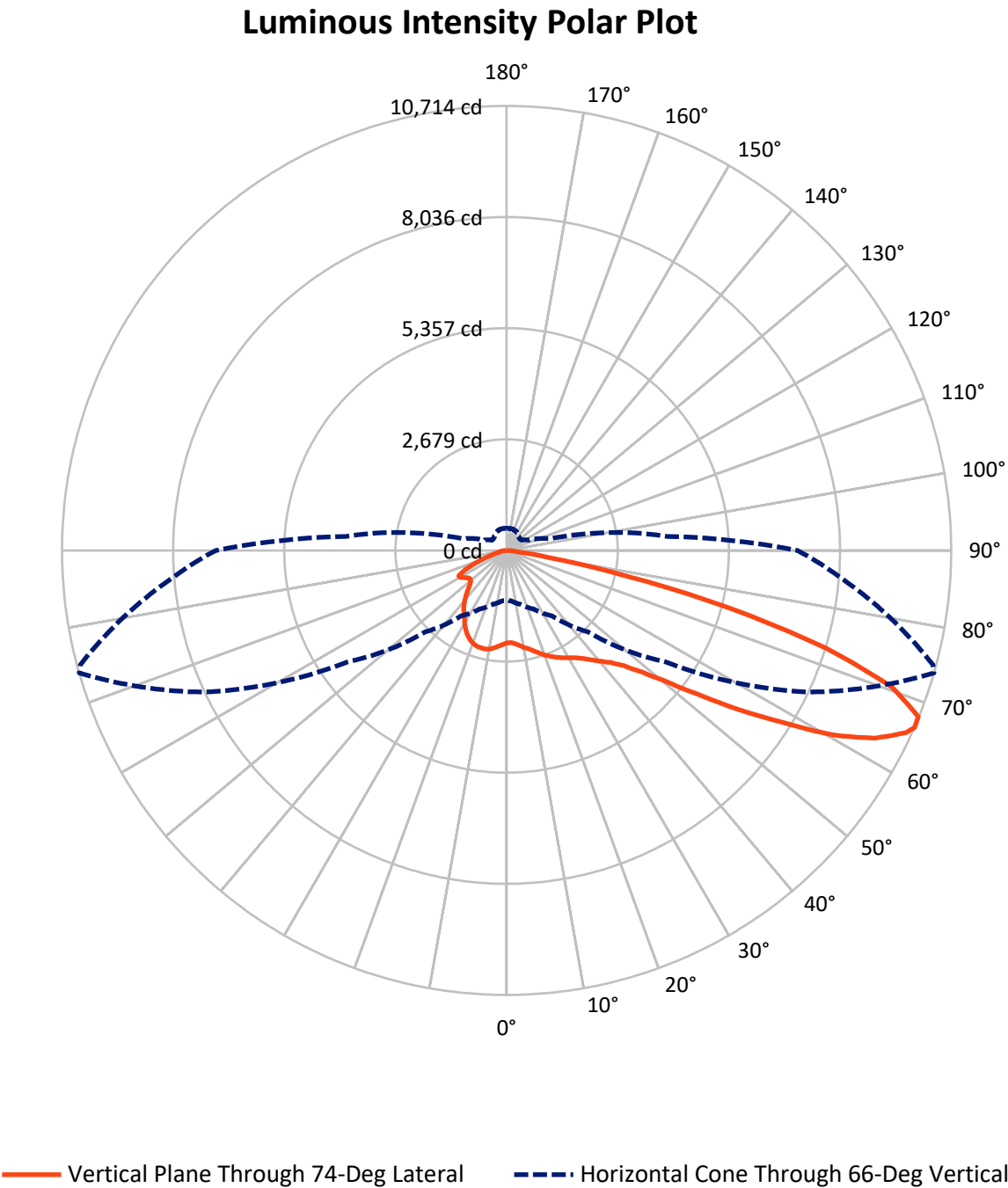
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - N/A

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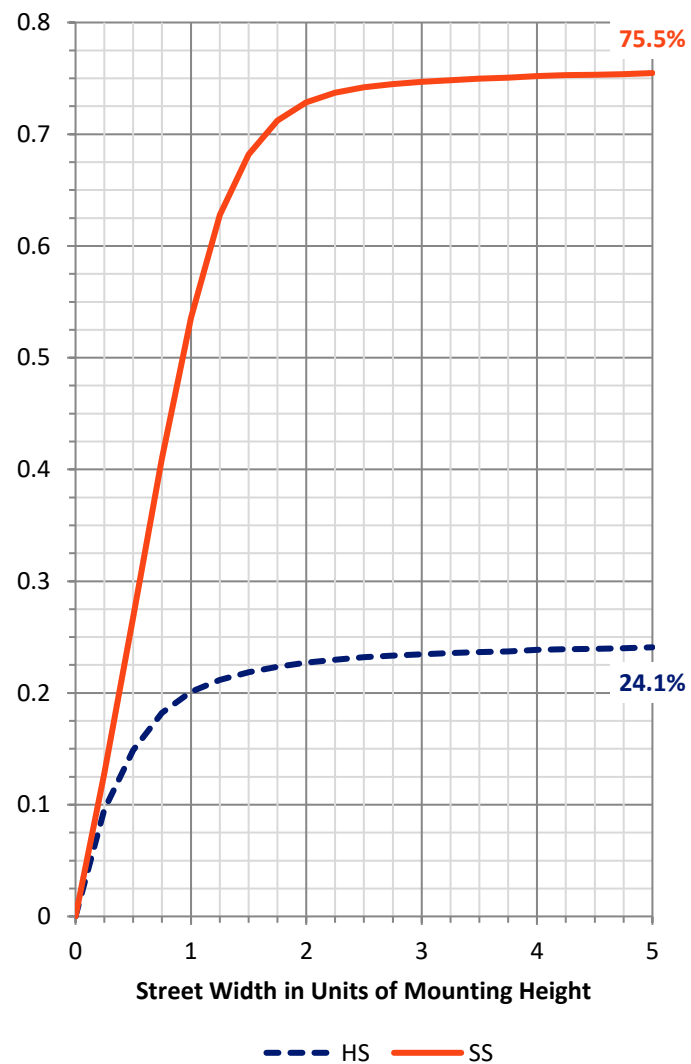
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3307.3	0.0	3307.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	10273.7	0.0	10273.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	13581.0	0.0	13581.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.4	1.6
10°-20°	653.1	4.8
20°-30°	1225.5	9.0
30°-40°	1885.2	13.9
40°-50°	2535.7	18.7
50°-60°	2998.8	22.1
60°-70°	2774.1	20.4
70°-80°	1167.0	8.6
80°-90°	129.1	1.0
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°	13581.0	100.0
0°-180°	13581.0	100.0

Coefficient of Utilization



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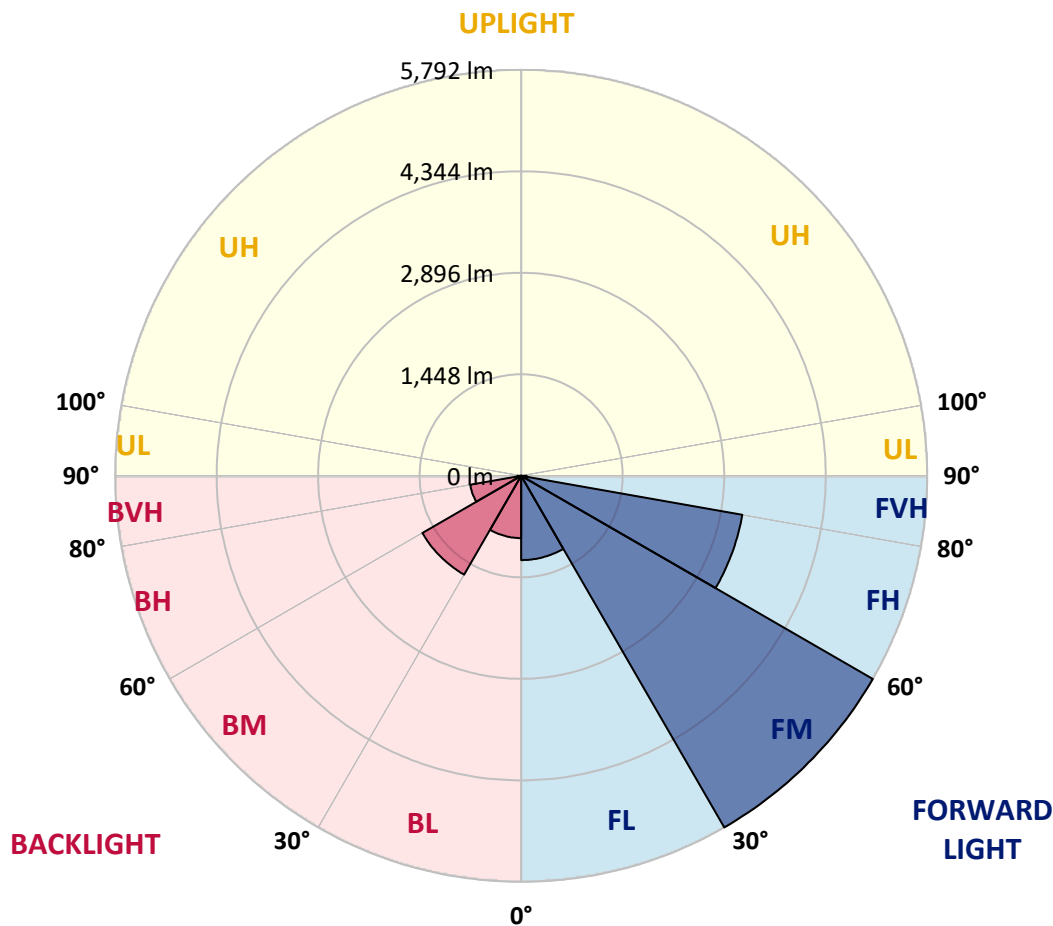
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1202.1	8.9			
FM	(30°-60°)	5791.5	42.6			
FH	(60°-80°)	3202.8	23.6			G2/5000
FVH	(80°-90°)	77.3	0.6			G1/100
BL	(0°-30°)	888.9	6.5	B2/1000		
BM	(30°-60°)	1628.2	12.0	B2/2500		
BH	(60°-80°)	738.3	5.4	B2/1000		G2/1000
BVH	(80°-90°)	51.9	0.4			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°	74°	75°	85°
0°	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4
2.5°	2219.4	2215.9	2222.9	2233.4	2238.6	2229.9	2226.4	2224.6	2224.6	2219.4	2228.1
5°	2114.5	2112.8	2128.5	2147.7	2184.4	2210.6	2245.6	2266.6	2259.6	2249.1	2256.1
7.5°	1978.2	1974.7	1994.0	2030.7	2081.3	2139.0	2224.6	2291.0	2317.2	2313.8	2312.0
10°	2030.7	2027.2	2025.4	2014.9	2032.4	2088.3	2177.4	2294.5	2383.7	2385.4	2387.2
12.5°	2212.4	2221.1	2212.4	2179.2	2140.7	2119.8	2172.2	2303.3	2439.6	2450.1	2493.8
15°	2460.5	2451.8	2434.3	2395.9	2336.5	2273.6	2235.1	2343.5	2520.0	2528.7	2624.8
17.5°	2679.0	2686.0	2675.5	2638.8	2568.9	2486.8	2369.7	2413.4	2605.6	2630.1	2764.6
20°	2916.7	2944.6	2930.6	2885.2	2827.5	2705.2	2558.4	2514.7	2700.0	2717.4	2909.7
22.5°	3191.0	3220.7	3194.5	3150.8	3103.6	2953.4	2764.6	2638.8	2778.6	2815.3	3049.5
25°	3519.6	3547.5	3523.1	3454.9	3395.5	3212.0	2986.6	2778.6	2855.5	2895.7	3163.1
27.5°	3779.9	3800.9	3823.6	3783.4	3692.6	3502.1	3217.2	2923.6	2932.4	2974.3	3267.9
30°	4012.4	4064.8	4084.0	4089.3	4012.4	3799.2	3453.2	3073.9	2998.8	3042.5	3372.8
32.5°	4330.4	4409.1	4377.6	4409.1	4363.6	4078.8	3697.8	3229.5	3084.4	3124.6	3472.4
35°	4795.3	4858.2	4776.1	4751.6	4678.2	4361.9	3933.7	3390.2	3198.0	3241.7	3566.7
37.5°	5295.1	5366.7	5247.9	5150.0	5010.2	4641.5	4136.4	3601.7	3355.3	3390.2	3654.1
40°	5732.0	5791.4	5688.3	5559.0	5324.8	4887.9	4311.2	3750.2	3512.6	3556.3	3755.5
42.5°	6135.6	6174.1	6058.8	5934.7	5621.9	5109.8	4499.9	3907.5	3696.1	3738.0	3837.6
45°	6544.6	6574.3	6413.5	6237.0	5870.0	5312.5	4707.9	4127.7	3965.2	4021.1	3970.4
47.5°	6618.0	6626.7	6598.7	6479.9	6065.7	5506.5	4964.8	4423.0	4375.9	4437.0	4199.4
50°	6109.4	6188.1	6361.1	6478.2	6144.4	5669.0	5221.7	4846.0	4942.1	5020.7	4674.7
52.5°	5122.1	5197.2	5597.4	6041.3	5955.6	5705.7	5497.8	5382.5	5740.7	5835.1	5321.3
55°	4080.5	4146.9	4569.8	5209.4	5345.8	5538.0	5793.1	6067.5	6759.5	6822.4	6030.8
57.5°	3360.5	3397.2	3699.6	4314.7	4533.1	5001.5	5952.2	6881.8	7795.8	7891.9	6647.7
60°	2755.9	2796.1	3021.5	3528.3	3818.4	4234.3	5826.3	7685.7	9033.1	9033.1	7439.3
62.5°	2074.3	2109.3	2319.0	2715.7	3203.3	3584.2	5424.4	8218.7	9966.3	9924.3	8012.5
65°	1424.3	1452.2	1604.2	1868.1	2306.8	3054.7	4875.7	8225.7	10584.9	10529.0	8257.2
66°	1195.3	1219.8	1349.1	1562.3	1931.0	2771.6	4681.7	8077.2	10714.2	10635.6	8154.1
67.5°	943.7	961.2	1046.8	1172.6	1415.5	2243.9	4375.9	7656.0	10702.0	10654.8	7891.9
70°	674.6	686.8	749.7	775.9	837.1	1298.4	3475.9	6705.3	9843.9	9857.9	6860.9
72.5°	522.5	541.7	580.2	585.4	571.4	690.3	2109.3	5593.9	8052.7	8047.5	5092.4
75°	421.2	431.6	450.9	461.4	457.9	445.6	893.0	4173.1	5543.2	5607.9	2852.0
77.5°	332.0	330.3	347.8	361.7	372.2	349.5	408.9	2446.6	2906.2	2824.0	1071.2
80°	244.7	244.7	269.1	274.4	290.1	293.6	272.6	943.7	997.9	907.0	277.9
82.5°	160.8	160.8	187.0	190.5	206.2	228.9	197.5	283.1	276.1	262.1	125.8
85°	87.4	83.9	92.6	104.9	113.6	134.6	118.8	141.6	145.0	143.3	83.9
87.5°	17.5	15.7	24.5	28.0	31.5	41.9	38.4	57.7	80.4	78.6	36.7
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°	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4
2.5°	2240.4	2238.6	2257.8	2280.6	2306.8	2322.5	2329.5	2341.7	2333.0	2336.5	2347.0
5°	2273.6	2278.8	2306.8	2336.5	2348.7	2340.0	2320.7	2313.8	2298.0	2294.5	2291.0
7.5°	2322.5	2331.2	2359.2	2366.2	2329.5	2268.3	2224.6	2200.2	2174.0	2167.0	2163.5
10°	2402.9	2408.1	2415.1	2343.5	2252.6	2170.5	2116.3	2093.6	2076.1	2062.1	2065.6
12.5°	2504.2	2500.7	2446.6	2298.0	2168.7	2084.8	2048.1	2034.1	2021.9	2013.2	2011.4
15°	2631.8	2607.3	2451.8	2235.1	2090.1	2020.2	1994.0	1988.7	1974.7	1974.7	1973.0
17.5°	2761.1	2698.2	2448.3	2168.7	2014.9	1976.5	1960.7	1957.3	1953.8	1952.0	1957.3
20°	2890.4	2778.6	2420.4	2086.6	1962.5	1939.8	1936.3	1938.0	1934.5	1939.8	1936.3
22.5°	3004.0	2831.0	2367.9	1999.2	1925.8	1924.1	1915.3	1918.8	1931.0	1932.8	1938.0
25°	3091.4	2850.3	2291.0	1918.8	1899.6	1896.1	1906.6	1920.6	1931.0	1932.8	1941.5
27.5°	3163.1	2839.8	2194.9	1855.9	1854.1	1873.4	1904.8	1910.1	1911.8	1911.8	1904.8
30°	3217.2	2817.0	2072.6	1786.0	1794.7	1841.9	1871.6	1871.6	1857.6	1854.1	1864.6
32.5°	3229.5	2787.3	1939.8	1714.3	1728.3	1784.2	1820.9	1808.7	1793.0	1793.0	1800.0
35°	3240.0	2747.1	1833.2	1616.5	1637.5	1703.9	1738.8	1714.3	1696.9	1691.6	1689.9
37.5°	3236.5	2731.4	1737.1	1492.4	1520.4	1585.0	1607.7	1585.0	1558.8	1546.6	1562.3
40°	3240.0	2720.9	1616.5	1356.1	1384.1	1422.5	1452.2	1434.7	1410.3	1378.8	1394.5
42.5°	3260.9	2734.9	1483.7	1223.3	1223.3	1244.3	1294.9	1282.7	1223.3	1211.1	1225.0
45°	3372.8	2810.1	1350.9	1090.5	1071.2	1085.2	1137.7	1085.2	1048.5	1048.5	1060.8
47.5°	3643.6	2949.9	1233.8	973.4	927.9	955.9	969.9	921.0	893.0	886.0	898.2
50°	4195.9	3229.5	1163.9	877.3	821.3	842.3	833.6	831.8	803.9	807.4	814.4
52.5°	5034.7	3774.7	1142.9	830.1	760.2	765.4	756.7	760.2	754.9	772.4	777.7
55°	5948.7	4349.6	1169.1	837.1	718.2	681.5	685.0	702.5	723.5	751.4	756.7
57.5°	6631.9	4638.0	1237.3	884.3	665.8	609.9	618.6	651.8	692.0	714.7	727.0
60°	7140.5	4603.0	1336.9	896.5	602.9	545.2	561.0	609.9	644.8	664.1	676.3
62.5°	7306.5	4384.6	1361.3	807.4	520.8	484.1	522.5	573.2	588.9	609.9	618.6
65°	7170.2	4075.3	1183.1	655.3	457.9	438.6	494.6	533.0	554.0	564.5	566.2
66°	7009.4	3890.0	1087.0	595.9	435.1	424.7	484.1	515.5	536.5	534.7	536.5
67.5°	6656.4	3502.1	931.4	512.0	401.9	403.7	466.6	487.6	494.6	489.3	489.3
70°	5455.8	2465.8	667.6	388.0	353.0	377.5	419.4	424.7	440.4	433.4	433.4
72.5°	3364.0	1211.1	447.4	297.1	314.6	353.0	351.3	368.7	405.4	415.9	422.9
75°	1653.2	491.1	295.3	251.6	281.4	295.3	291.8	335.5	388.0	433.4	449.1
77.5°	627.4	244.7	206.2	220.2	227.2	221.9	232.4	304.1	388.0	470.1	485.8
80°	194.0	169.5	162.5	181.7	171.3	162.5	174.8	251.6	328.5	356.5	356.5
82.5°	117.1	132.8	125.8	124.1	115.3	117.1	125.8	180.0	253.4	265.6	265.6
85°	82.1	87.4	71.6	68.2	66.4	64.7	64.7	104.9	150.3	148.5	153.8
87.5°	31.5	35.0	26.2	26.2	24.5	17.5	14.0	17.5	17.5	12.2	8.7
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)