

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: P799411

Luminaire Tested: **ARCH2-110-740-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13822 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 109.5
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



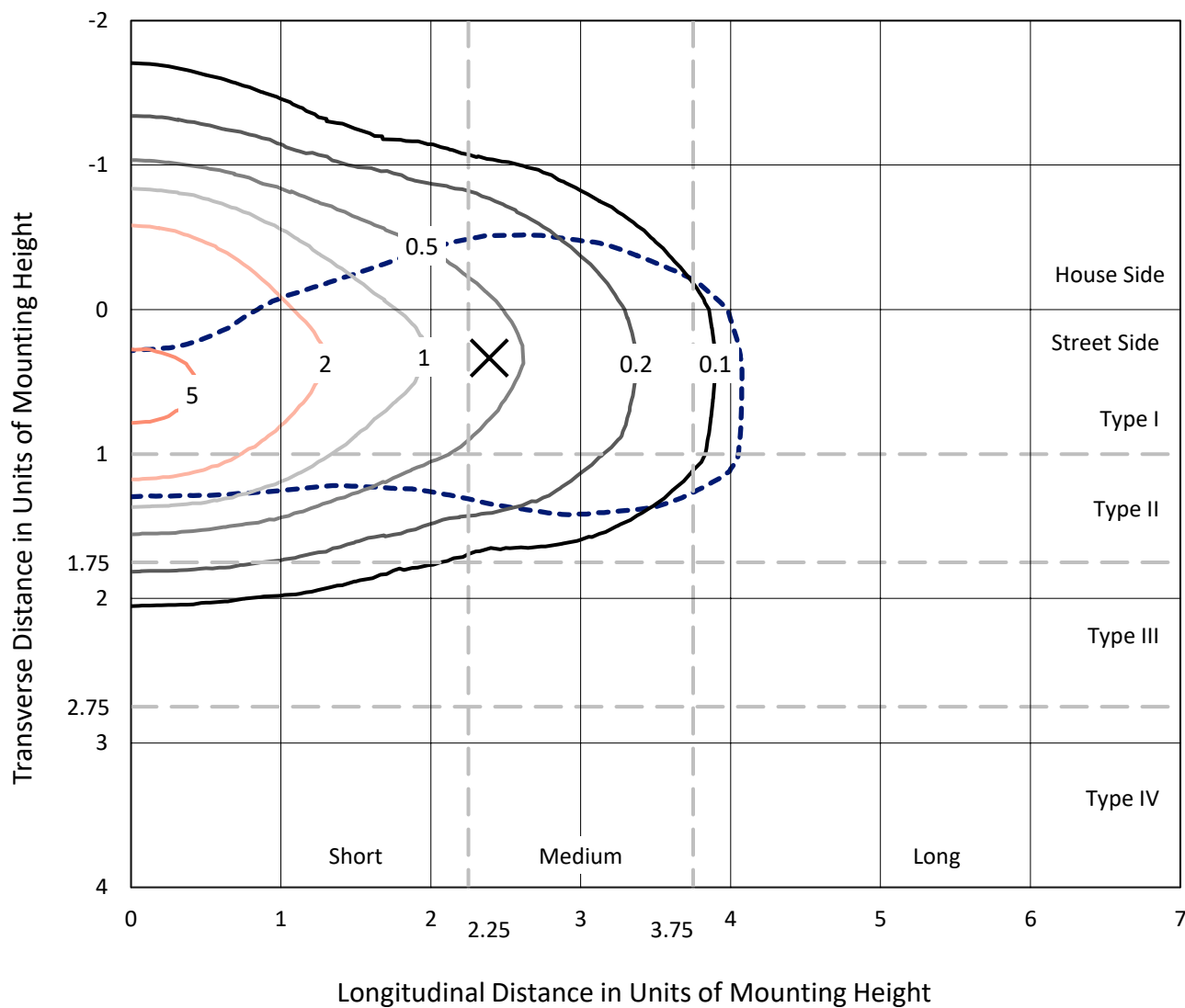
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Iso-Footcandle Lines of Horizontal Illumination

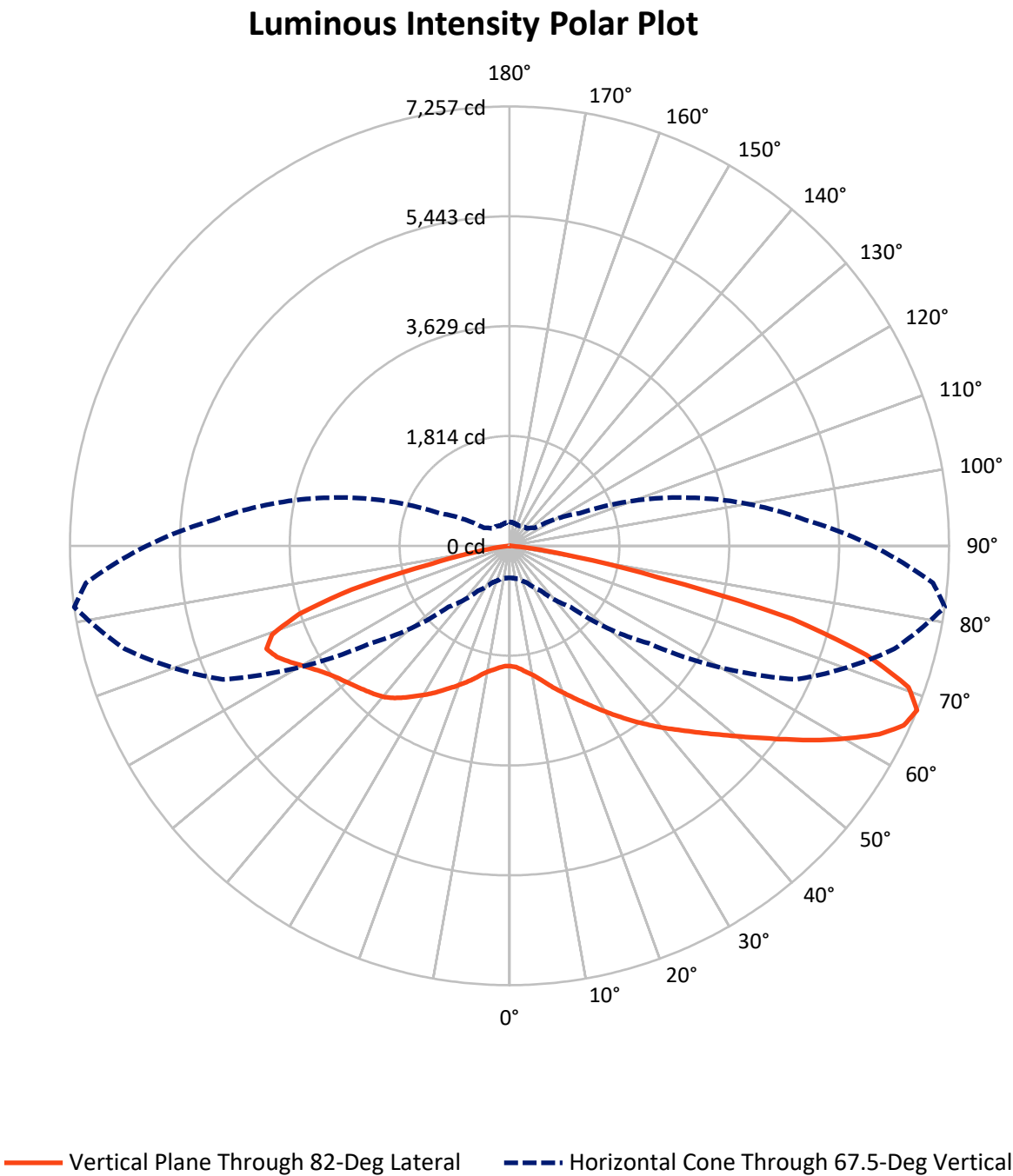
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type II - Medium - N/A

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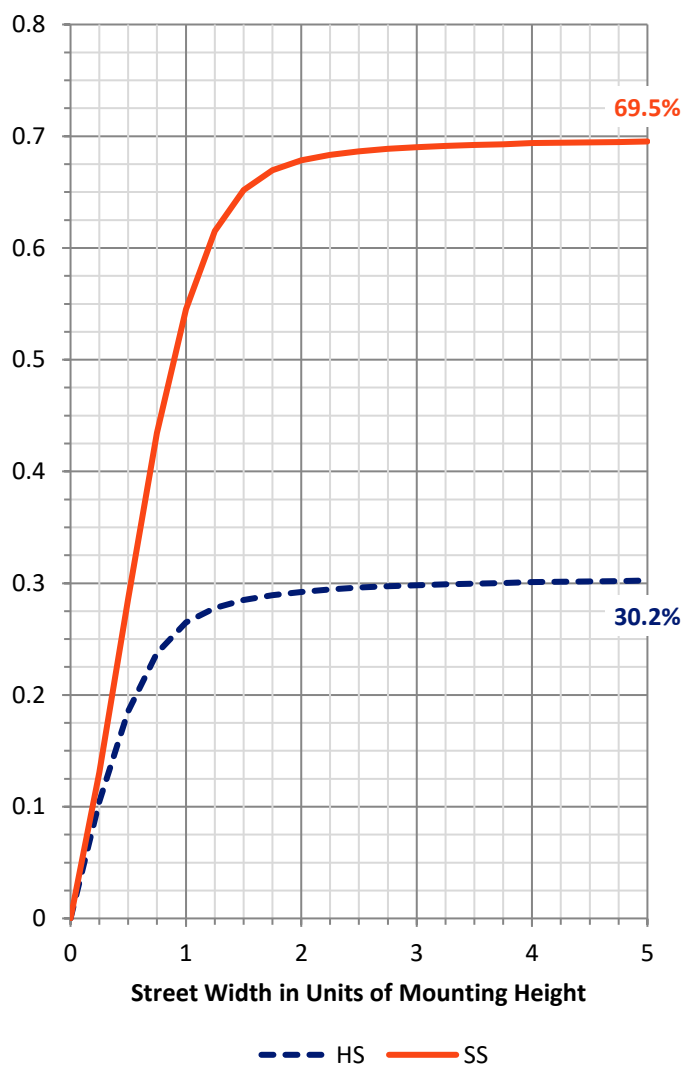
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4209.4	0.0	4209.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	9612.6	0.0	9612.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	13822.0	0.0	13822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.3	1.5
10°-20°	739.6	5.4
20°-30°	1486.5	10.8
30°-40°	2335.1	16.9
40°-50°	2844.6	20.6
50°-60°	2687.8	19.4
60°-70°	2219.5	16.1
70°-80°	1208.6	8.7
80°-90°	95.0	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°	13822.0	100.0
0°-180°	13822.0	100.0

Coefficient of Utilization



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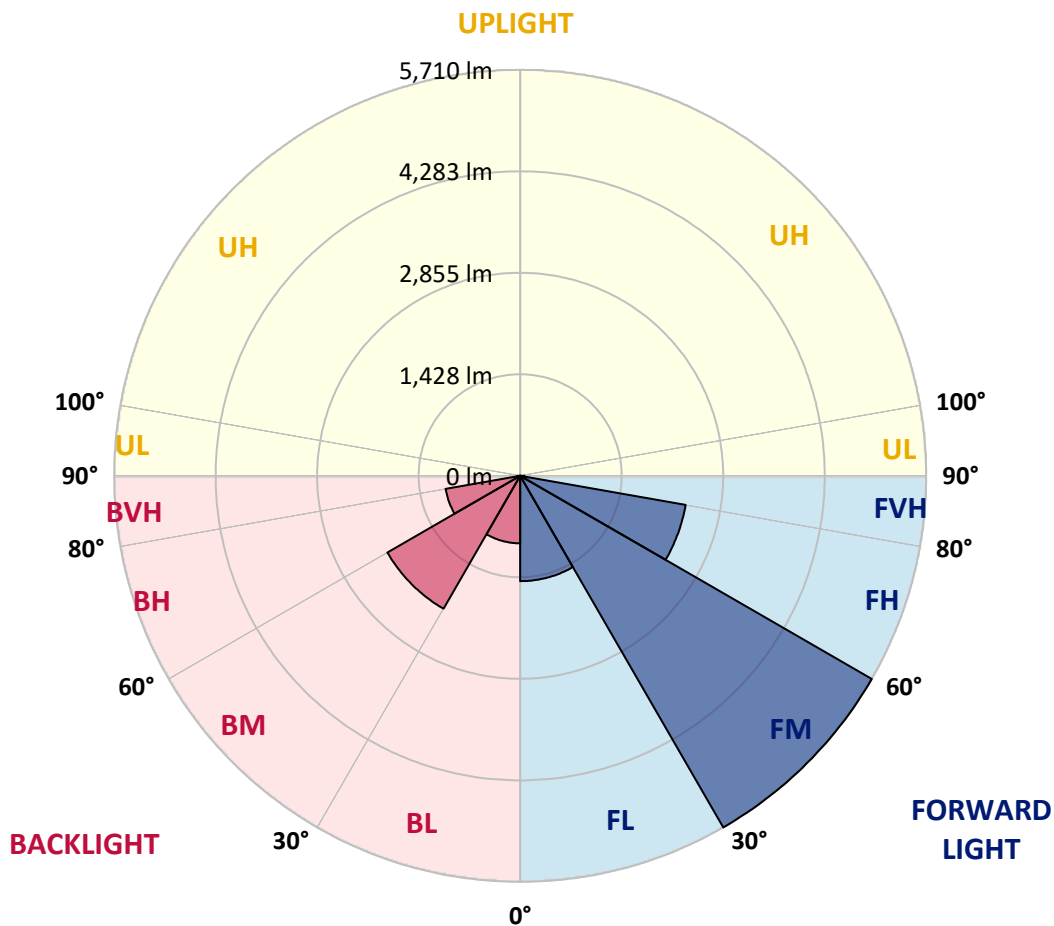
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1482.2	10.7			
FM	(30°-60°)	5710.5	41.3			
FH	(60°-80°)	2362.7	17.1			G2/5000
FVH	(80°-90°)	57.3	0.4			G1/100
BL	(0°-30°)	949.2	6.9	B2/1000		
BM	(30°-60°)	2157.0	15.6	B2/2500		
BH	(60°-80°)	1065.4	7.7	B3/2500		G3/2500
BVH	(80°-90°)	37.7	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°	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9
2.5°	2077.2	2077.2	2093.3	2093.3	2079.2	2057.1	2051.1	2027.0	2005.0	2005.0	2007.0
5°	2275.9	2273.9	2285.9	2269.9	2235.8	2191.6	2161.5	2109.3	2065.2	2051.1	2049.1
7.5°	2518.8	2516.7	2522.8	2496.7	2432.5	2360.2	2300.0	2215.7	2143.4	2113.3	2105.3
10°	2789.7	2787.7	2781.7	2737.5	2651.2	2538.8	2448.5	2332.1	2223.7	2175.6	2165.5
12.5°	3100.8	3096.8	3082.7	3018.5	2900.1	2755.6	2625.1	2474.6	2330.1	2263.9	2241.8
15°	3448.0	3442.0	3415.9	3337.6	3179.0	2996.4	2827.8	2635.2	2458.5	2372.2	2342.1
17.5°	3813.3	3813.3	3773.1	3656.7	3480.1	3253.3	3044.6	2799.7	2593.0	2486.6	2450.5
20°	4184.5	4182.5	4132.4	3991.9	3783.1	3522.2	3257.3	2988.4	2731.5	2603.0	2558.9
22.5°	4575.9	4571.9	4509.7	4349.1	4100.3	3805.2	3496.2	3175.0	2884.0	2729.5	2673.3
25°	5025.5	5019.4	4943.2	4746.5	4451.5	4118.3	3765.1	3393.8	3058.6	2870.0	2803.7
27.5°	5503.1	5495.1	5404.8	5176.0	4852.9	4451.5	4062.1	3646.7	3251.3	3026.5	2952.3
30°	5928.6	5922.6	5824.2	5589.4	5218.1	4782.6	4345.1	3899.6	3454.0	3193.1	3100.8
32.5°	6249.7	6249.7	6161.4	5930.6	5545.3	5099.7	4630.1	4138.4	3664.7	3371.7	3263.3
35°	6444.4	6450.4	6374.2	6189.5	5826.2	5398.8	4925.1	4419.4	3889.5	3562.4	3446.0
37.5°	6472.5	6492.6	6448.4	6324.0	6020.9	5647.6	5214.1	4690.3	4122.3	3755.1	3624.6
40°	6342.0	6356.1	6358.1	6309.9	6101.2	5826.2	5469.0	4977.3	4369.2	3957.8	3807.2
42.5°	6081.1	6091.2	6109.2	6123.3	6043.0	5904.5	5663.7	5244.2	4632.1	4164.5	3987.9
45°	5744.0	5742.0	5772.1	5832.3	5828.3	5860.4	5772.1	5487.1	4905.0	4399.3	4188.6
47.5°	5240.2	5230.2	5336.5	5473.0	5541.3	5691.8	5774.1	5677.7	5202.1	4658.2	4417.4
50°	4451.5	4441.4	4674.2	4995.4	5196.1	5424.9	5663.7	5792.1	5513.2	4949.2	4666.2
52.5°	3492.1	3482.1	3777.1	4339.1	4776.6	5109.8	5440.9	5818.2	5808.2	5274.3	4947.2
55°	2597.0	2589.0	2876.0	3484.1	4192.6	4744.5	5168.0	5750.0	6085.1	5647.6	5288.4
57.5°	1830.4	1826.3	2075.2	2579.0	3442.0	4298.9	4905.0	5617.5	6340.0	6053.0	5673.7
60°	1284.5	1278.4	1459.1	1848.4	2603.0	3626.6	4644.1	5440.9	6530.7	6452.4	6083.1
62.5°	865.0	861.0	989.4	1314.6	1848.4	2791.7	4248.8	5322.5	6639.1	6853.8	6496.6
65°	656.3	654.3	712.5	891.1	1308.5	2005.0	3620.6	5308.4	6653.1	7154.9	6847.8
67.5°	529.8	531.8	564.0	666.3	905.1	1425.0	2807.8	5220.1	6578.9	7257.2	7018.4
70°	433.5	433.5	447.6	515.8	668.3	961.3	1960.8	4818.7	6372.1	6990.3	6815.7
72.5°	331.2	333.2	377.3	417.5	503.8	674.3	1256.4	3987.9	5884.5	6163.4	6031.0
75°	262.9	260.9	287.0	343.2	391.4	481.7	770.7	2859.9	5007.4	4816.7	4732.4
77.5°	188.7	186.6	206.7	254.9	297.0	341.2	459.6	1443.0	2723.5	2502.7	2440.5
80°	128.4	124.4	142.5	176.6	196.7	200.7	224.8	553.9	1188.1	1119.9	1105.8
82.5°	66.2	66.2	76.3	100.3	102.4	104.4	100.3	178.6	393.4	367.3	351.2
85°	26.1	26.1	28.1	34.1	34.1	36.1	36.1	46.2	42.1	40.1	38.1
87.5°	2.0	2.0	4.0	4.0	6.0	6.0	6.0	8.0	10.0	10.0	10.0
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°	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9
2.5°	2003.0	1994.9	1968.8	1962.8	1958.8	1952.8	1954.8	1940.7	1934.7	1936.7	1928.7
5°	2039.1	2025.0	1992.9	1978.9	1974.9	1968.8	1974.9	1964.8	1954.8	1958.8	1954.8
7.5°	2089.3	2069.2	2029.1	2015.0	2013.0	2007.0	2015.0	2007.0	1998.9	2003.0	1994.9
10°	2141.4	2115.4	2071.2	2057.1	2057.1	2055.1	2063.2	2051.1	2043.1	2045.1	2041.1
12.5°	2217.7	2183.6	2135.4	2123.4	2117.4	2123.4	2125.4	2109.3	2095.3	2097.3	2091.3
15°	2310.0	2271.9	2219.7	2201.7	2197.6	2195.6	2187.6	2167.5	2149.5	2147.5	2141.4
17.5°	2410.4	2362.2	2300.0	2281.9	2263.9	2257.8	2237.8	2211.7	2183.6	2183.6	2175.6
20°	2506.7	2452.5	2378.3	2352.2	2326.1	2302.0	2267.9	2225.7	2189.6	2183.6	2175.6
22.5°	2611.1	2546.9	2460.6	2422.4	2376.3	2328.1	2269.9	2213.7	2167.5	2157.5	2151.5
25°	2727.5	2647.2	2544.8	2488.6	2414.4	2340.1	2253.8	2181.6	2127.4	2111.3	2107.3
27.5°	2855.9	2759.6	2635.2	2552.9	2444.5	2328.1	2217.7	2131.4	2065.2	2045.1	2039.1
30°	2986.4	2872.0	2717.4	2597.0	2444.5	2290.0	2151.5	2051.1	1974.9	1946.8	1942.8
32.5°	3116.8	2988.4	2791.7	2621.1	2420.4	2225.7	2065.2	1946.8	1860.5	1826.3	1834.4
35°	3273.4	3116.8	2859.9	2631.1	2380.3	2147.5	1966.8	1828.4	1740.0	1709.9	1716.0
37.5°	3435.9	3245.3	2914.1	2623.1	2324.1	2059.2	1856.5	1722.0	1611.6	1559.4	1565.4
40°	3576.4	3361.7	2952.3	2595.0	2251.8	1958.8	1748.1	1571.5	1418.9	1368.8	1362.7
42.5°	3708.9	3448.0	2972.3	2552.9	2169.5	1842.4	1593.5	1366.8	1214.2	1152.0	1154.0
45°	3847.4	3532.3	2964.3	2496.7	2067.2	1705.9	1394.8	1166.1	1031.6	975.4	977.4
47.5°	4005.9	3622.6	2956.3	2436.5	1942.8	1529.3	1204.2	989.4	873.0	832.9	828.9
50°	4174.5	3722.9	2946.2	2362.2	1804.3	1332.6	1015.5	824.9	726.5	700.4	694.4
52.5°	4365.2	3831.3	2940.2	2273.9	1637.7	1123.9	846.9	680.4	614.1	596.1	594.1
55°	4594.0	3957.8	2948.2	2167.5	1437.0	927.2	704.4	586.0	541.9	531.8	529.8
57.5°	4872.9	4120.3	2972.3	2043.1	1226.3	756.6	600.1	527.8	499.7	491.7	491.7
60°	5176.0	4305.0	3016.5	1902.6	1015.5	624.2	531.8	481.7	469.6	479.7	479.7
62.5°	5503.1	4521.7	3094.8	1732.0	818.8	527.8	477.7	443.5	435.5	455.6	457.6
65°	5806.2	4732.4	3144.9	1527.3	650.3	457.6	435.5	405.4	409.4	429.5	427.5
67.5°	5992.8	4907.1	3074.7	1270.4	515.8	405.4	391.4	365.3	375.3	391.4	393.4
70°	5878.4	4808.7	2727.5	959.3	403.4	353.2	343.2	327.1	335.2	355.2	363.3
72.5°	5318.5	4307.0	2121.4	648.3	325.1	297.0	301.0	293.0	303.1	321.1	339.2
75°	4317.0	3255.3	1422.9	415.4	256.9	252.9	258.9	252.9	256.9	275.0	285.0
77.5°	2253.8	1587.5	708.5	258.9	190.7	196.7	206.7	208.7	220.8	224.8	228.8
80°	1051.7	714.5	295.0	144.5	126.4	138.5	158.6	160.6	164.6	170.6	172.6
82.5°	343.2	214.7	136.5	78.3	72.3	78.3	102.4	122.4	124.4	136.5	136.5
85°	36.1	22.1	30.1	32.1	28.1	34.1	46.2	44.2	20.1	12.0	12.0
87.5°	10.0	8.0	10.0	10.0	8.0	8.0	6.0	2.0	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)