

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: P800069

Luminaire Tested: **ARCH2-70-750-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10509 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.6
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

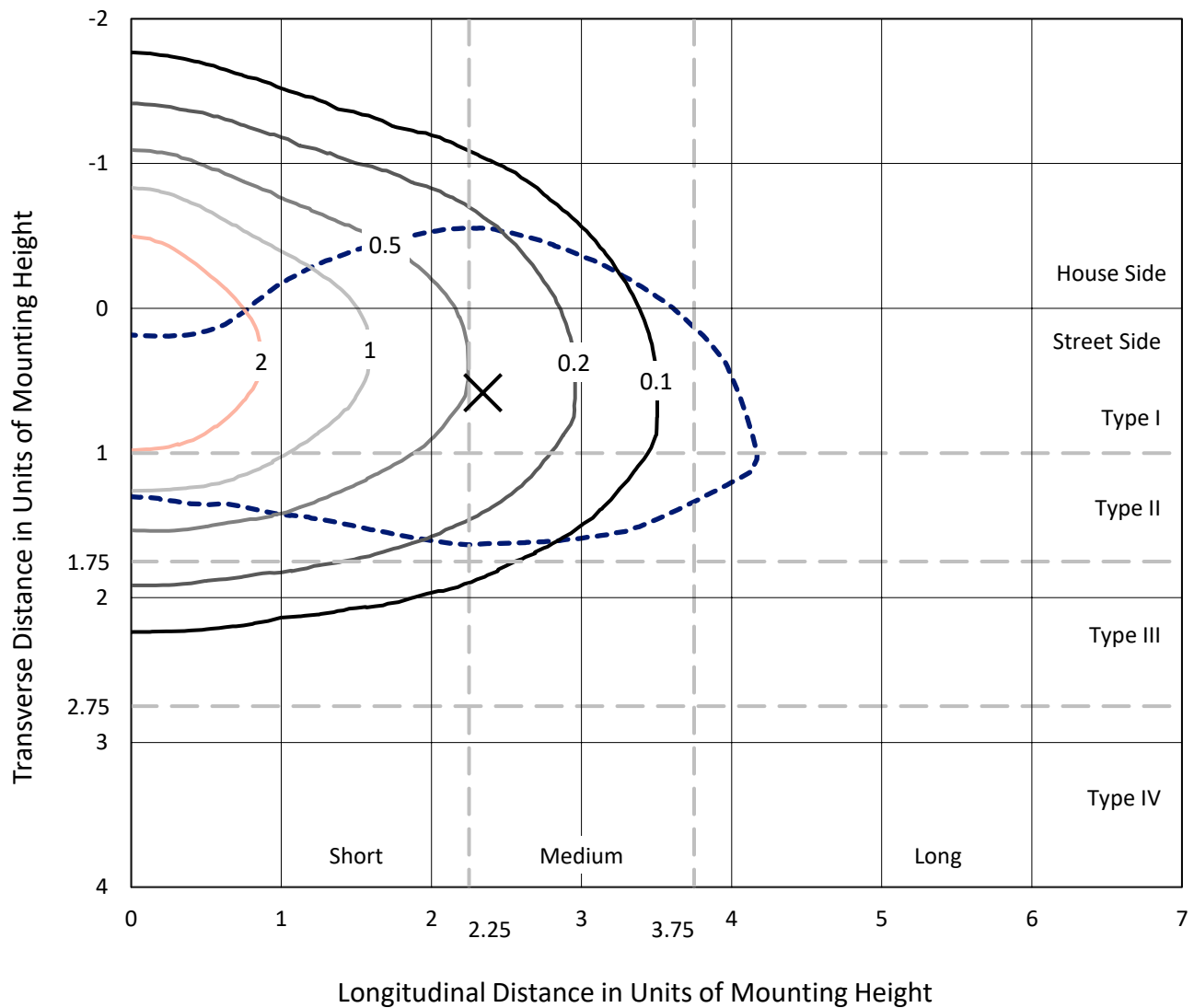


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

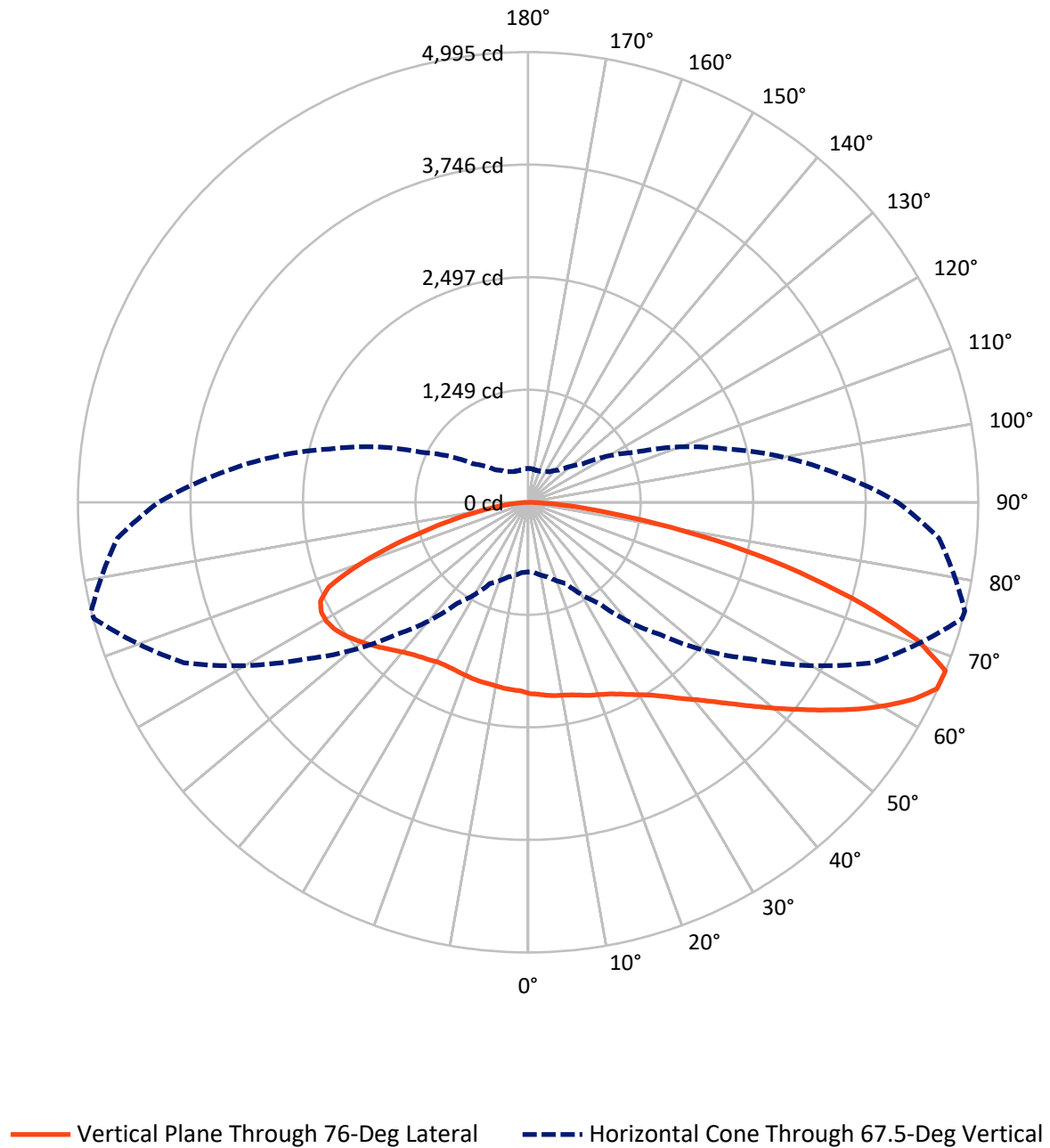


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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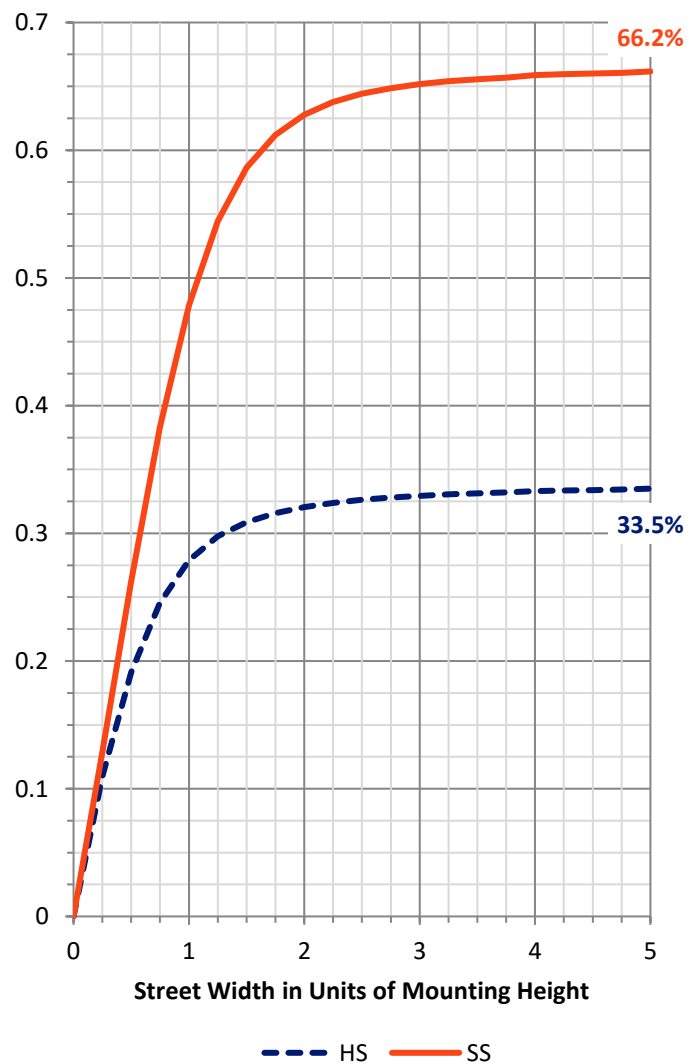
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3551.0	0.0	3551.0
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	6958.0	0.0	6958.0
	% Fixture	66.2	0.0	66.2
Total	Lumens	10509.0	0.0	10509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	1.9
10°-20°	625.8	6.0
20°-30°	1063.2	10.1
30°-40°	1512.9	14.4
40°-50°	1910.7	18.2
50°-60°	2068.7	19.7
60°-70°	1924.1	18.3
70°-80°	1033.4	9.8
80°-90°	165.6	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°	10509.0	100.0
0°-180°	10509.0	100.0

Coefficient of Utilization



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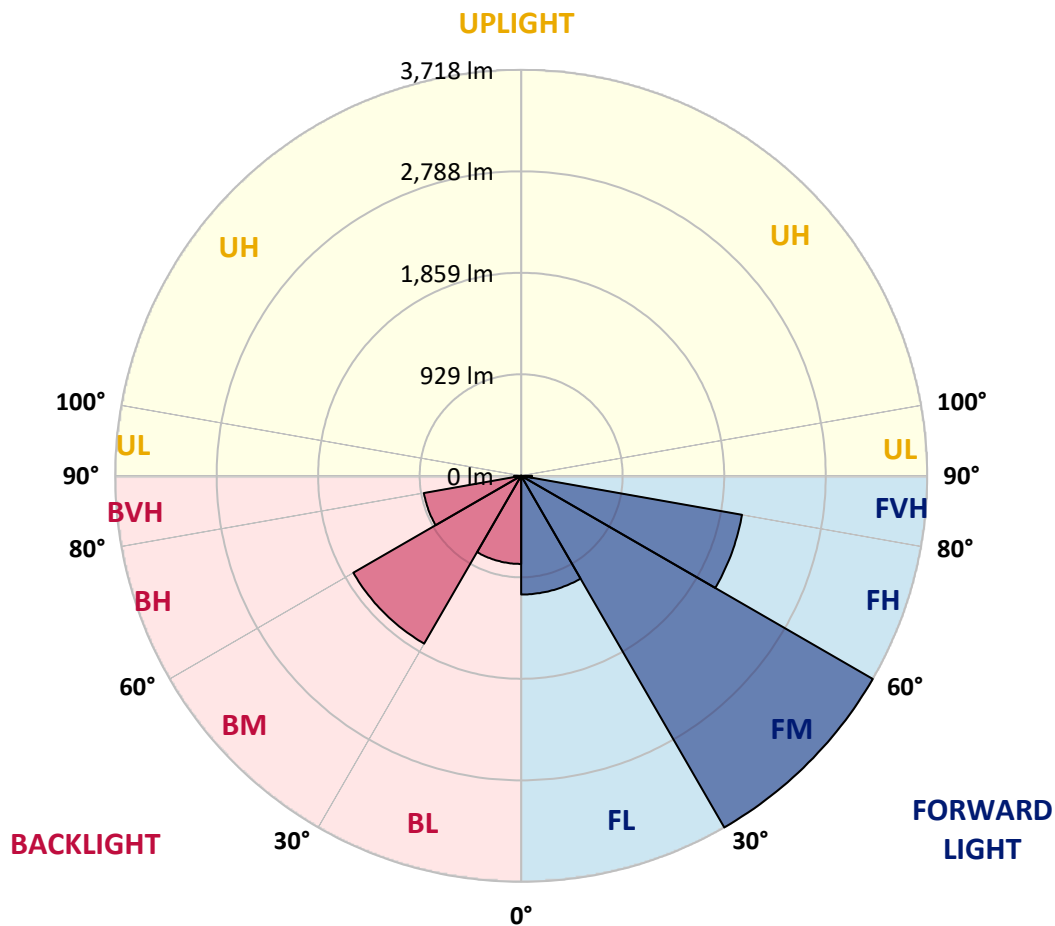
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1086.7	10.3			
FM	(30°-60°)	3717.7	35.4			
FH	(60°-80°)	2053.4	19.5			G2/5000
FVH	(80°-90°)	100.2	1.0			G2/225
BL	(0°-30°)	807.0	7.7	B2/1000		
BM	(30°-60°)	1774.5	16.9	B2/2500		
BH	(60°-80°)	904.1	8.6	B2/1000		G2/1000
BVH	(80°-90°)	65.4	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8
2.5°	2187.2	2183.3	2167.7	2169.6	2169.6	2167.7	2144.3	2134.5	2134.5	2132.6	2111.1
5°	2265.2	2259.4	2241.8	2237.9	2230.1	2220.3	2183.3	2161.8	2152.1	2150.1	2120.8
7.5°	2356.9	2349.1	2327.7	2316.0	2296.4	2271.1	2224.3	2191.1	2167.7	2165.7	2124.7
10°	2448.6	2440.8	2415.5	2394.0	2366.7	2325.7	2265.2	2216.4	2179.4	2175.5	2126.7
12.5°	2557.9	2550.1	2518.9	2491.6	2450.6	2395.9	2316.0	2249.6	2198.9	2193.0	2132.6
15°	2673.0	2661.3	2630.1	2598.9	2548.1	2477.9	2382.3	2294.5	2230.1	2220.3	2150.1
17.5°	2768.6	2753.0	2727.6	2696.4	2639.8	2557.9	2448.6	2339.4	2259.4	2251.6	2167.7
20°	2850.6	2838.8	2811.5	2782.3	2721.8	2632.0	2511.1	2384.2	2286.7	2276.9	2181.3
22.5°	2928.6	2913.0	2897.4	2875.9	2809.6	2710.1	2583.3	2438.9	2321.8	2310.1	2198.9
25°	3018.3	3000.8	2994.9	2983.2	2905.2	2803.7	2671.1	2507.2	2370.6	2356.9	2230.1
27.5°	3129.6	3110.1	3098.3	3098.3	3004.7	2899.3	2764.7	2587.2	2427.2	2415.5	2269.1
30°	3246.6	3223.2	3205.7	3205.7	3100.3	2994.9	2856.4	2667.2	2491.6	2477.9	2319.9
32.5°	3350.0	3326.6	3307.1	3305.2	3195.9	3090.5	2952.0	2755.0	2569.6	2552.0	2382.3
35°	3430.0	3408.6	3391.0	3394.9	3291.5	3188.1	3059.3	2872.0	2667.2	2647.6	2464.2
37.5°	3478.8	3471.0	3461.2	3474.9	3379.3	3281.7	3170.5	2985.2	2778.4	2760.8	2565.7
40°	3504.2	3498.3	3537.3	3554.9	3453.4	3365.6	3281.7	3102.2	2899.3	2879.8	2682.8
42.5°	3541.2	3590.0	3605.6	3601.7	3508.1	3430.0	3383.2	3229.1	3041.8	3024.2	2823.2
45°	3408.6	3396.9	3482.7	3529.5	3512.0	3471.0	3478.8	3381.3	3207.6	3190.0	2985.2
47.5°	3231.0	3215.4	3264.2	3379.3	3447.6	3486.6	3564.7	3539.3	3398.8	3383.2	3174.4
50°	2856.4	2877.9	3059.3	3213.5	3348.1	3482.7	3636.8	3709.0	3609.5	3593.9	3377.4
52.5°	2440.8	2462.3	2651.5	3006.6	3227.1	3453.4	3689.5	3878.8	3837.8	3820.3	3593.9
55°	2138.4	2185.2	2399.9	2657.4	3055.4	3361.7	3720.7	4052.4	4083.6	4068.0	3830.0
57.5°	1837.9	1873.1	2035.0	2263.3	2821.3	3201.8	3718.8	4214.4	4341.2	4325.6	4070.0
60°	1484.8	1529.7	1658.4	1904.3	2509.1	3010.5	3664.2	4341.2	4589.0	4577.3	4302.2
62.5°	1242.8	1256.5	1348.2	1560.9	2107.2	2768.6	3541.2	4409.5	4813.4	4805.6	4510.9
65°	1000.9	1002.9	1086.8	1264.3	1718.9	2468.1	3332.5	4384.1	4983.1	4987.0	4661.2
67.5°	772.6	782.4	858.5	993.1	1365.8	2077.9	3034.0	4212.4	4985.1	4994.8	4575.3
70°	534.6	542.4	657.5	788.2	1055.5	1656.5	2630.1	3757.8	4575.3	4583.1	4101.2
72.5°	376.6	380.5	503.4	630.2	825.3	1248.7	1984.3	3108.1	3900.2	3906.1	3449.5
75°	281.0	284.9	355.1	478.0	632.2	864.3	1356.0	2380.3	3115.9	3115.9	2723.7
77.5°	199.0	201.0	230.2	329.7	421.4	583.4	815.6	1558.9	2286.7	2290.6	1984.3
80°	134.6	136.6	150.2	222.4	263.4	316.1	442.9	817.5	1441.9	1447.7	1260.4
82.5°	70.2	74.1	83.9	113.2	132.7	175.6	228.3	415.6	798.0	813.6	757.0
85°	27.3	27.3	31.2	37.1	48.8	68.3	105.4	158.0	361.0	372.7	333.6
87.5°	9.8	9.8	11.7	11.7	13.7	15.6	17.6	23.4	41.0	41.0	39.0
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°	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8
2.5°	2103.3	2103.3	2093.5	2097.4	2095.5	2091.6	2087.7	2093.5	2087.7	2074.0	2072.1
5°	2107.2	2103.3	2087.7	2085.7	2079.9	2072.1	2062.3	2066.2	2056.5	2044.8	2042.8
7.5°	2109.1	2101.3	2079.9	2072.1	2060.4	2044.8	2029.1	2029.1	2015.5	2003.8	2001.8
10°	2105.2	2095.5	2066.2	2050.6	2029.1	2005.7	1984.3	1978.4	1962.8	1949.1	1949.1
12.5°	2107.2	2093.5	2056.5	2031.1	2001.8	1972.6	1945.2	1937.4	1923.8	1910.1	1908.2
15°	2118.9	2099.4	2052.6	2019.4	1976.5	1943.3	1914.0	1908.2	1896.5	1886.7	1886.7
17.5°	2130.6	2105.2	2046.7	1999.9	1947.2	1910.1	1882.8	1882.8	1875.0	1869.2	1869.2
20°	2136.5	2107.2	2035.0	1972.6	1912.1	1873.1	1847.7	1851.6	1849.6	1847.7	1847.7
22.5°	2150.1	2111.1	2025.2	1947.2	1875.0	1834.0	1810.6	1816.5	1814.5	1814.5	1816.5
25°	2171.6	2120.8	2017.4	1923.8	1839.9	1795.0	1769.6	1773.5	1773.5	1773.5	1773.5
27.5°	2200.8	2140.4	2015.5	1902.3	1804.8	1754.0	1722.8	1722.8	1715.0	1717.0	1718.9
30°	2245.7	2177.4	2019.4	1882.8	1767.7	1703.3	1666.2	1660.4	1658.4	1662.3	1664.3
32.5°	2300.3	2228.2	2042.8	1869.2	1728.7	1646.7	1599.9	1597.9	1592.1	1592.1	1592.1
35°	2368.6	2276.9	2064.3	1867.2	1689.7	1586.2	1535.5	1529.7	1516.0	1510.1	1510.1
37.5°	2456.4	2353.0	2089.6	1853.5	1656.5	1527.7	1467.2	1447.7	1432.1	1430.2	1430.2
40°	2563.7	2438.9	2126.7	1837.9	1621.4	1467.2	1387.2	1354.1	1356.0	1363.8	1363.8
42.5°	2690.6	2544.2	2173.5	1830.1	1570.6	1404.8	1293.6	1254.6	1268.2	1276.0	1278.0
45°	2838.8	2669.1	2226.2	1820.4	1523.8	1334.6	1194.1	1145.3	1151.1	1153.1	1155.1
47.5°	3010.5	2807.6	2280.8	1812.6	1471.1	1246.8	1084.8	1020.4	1018.5	1006.8	1010.7
50°	3190.0	2954.0	2337.4	1798.9	1406.7	1143.3	969.7	893.6	878.0	860.4	862.4
52.5°	3381.3	3104.2	2390.1	1777.5	1326.7	1038.0	860.4	778.5	747.3	727.8	731.7
55°	3592.0	3258.3	2440.8	1744.3	1242.8	932.6	762.9	679.0	640.0	624.4	626.3
57.5°	3785.1	3406.6	2477.9	1703.3	1151.1	837.0	677.0	595.1	569.7	567.8	569.7
60°	3972.4	3531.5	2493.5	1646.7	1057.5	749.2	597.0	534.6	517.0	526.8	528.7
62.5°	4130.5	3611.5	2485.7	1570.6	961.9	665.3	532.6	487.8	476.1	495.6	497.5
65°	4222.2	3636.8	2431.1	1461.4	858.5	583.4	472.2	423.4	417.5	429.2	435.1
67.5°	4101.2	3478.8	2282.8	1311.1	743.4	507.3	413.6	374.6	364.9	374.6	374.6
70°	3634.9	3014.4	1931.6	1073.1	616.5	433.1	359.0	331.7	323.9	331.7	329.7
72.5°	3028.1	2507.2	1521.9	837.0	485.8	364.9	312.2	286.8	279.0	271.2	267.3
75°	2349.1	1904.3	1104.3	614.6	366.8	292.7	261.4	238.0	218.5	226.3	222.4
77.5°	1720.9	1336.5	782.4	425.3	263.4	226.3	204.9	187.3	173.6	189.3	187.3
80°	1108.2	864.3	522.9	284.9	181.5	158.0	150.2	140.5	154.1	201.0	204.9
82.5°	677.0	548.3	312.2	185.4	119.0	105.4	97.6	97.6	158.0	173.6	175.6
85°	302.4	290.7	169.7	95.6	66.3	60.5	54.6	70.2	64.4	46.8	48.8
87.5°	48.8	50.7	37.1	33.2	25.4	25.4	19.5	13.7	9.8	5.9	5.9
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)