

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: P1211641

Luminaire Tested: **ARCH4-70-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211641
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: ARCH4-70-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12009 lumens
Efficiency: N/A
Efficacy: 162.7 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): 73.8
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

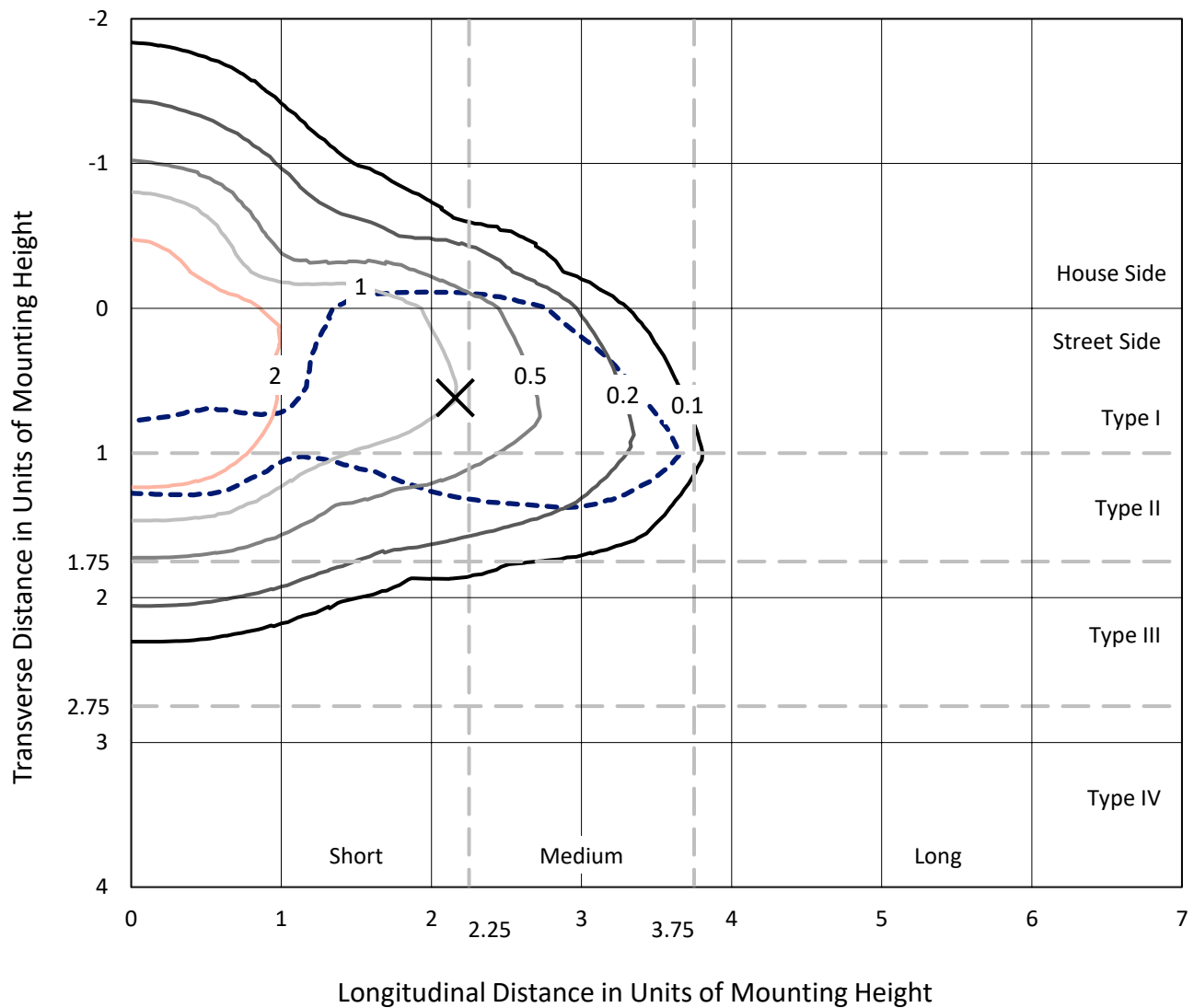


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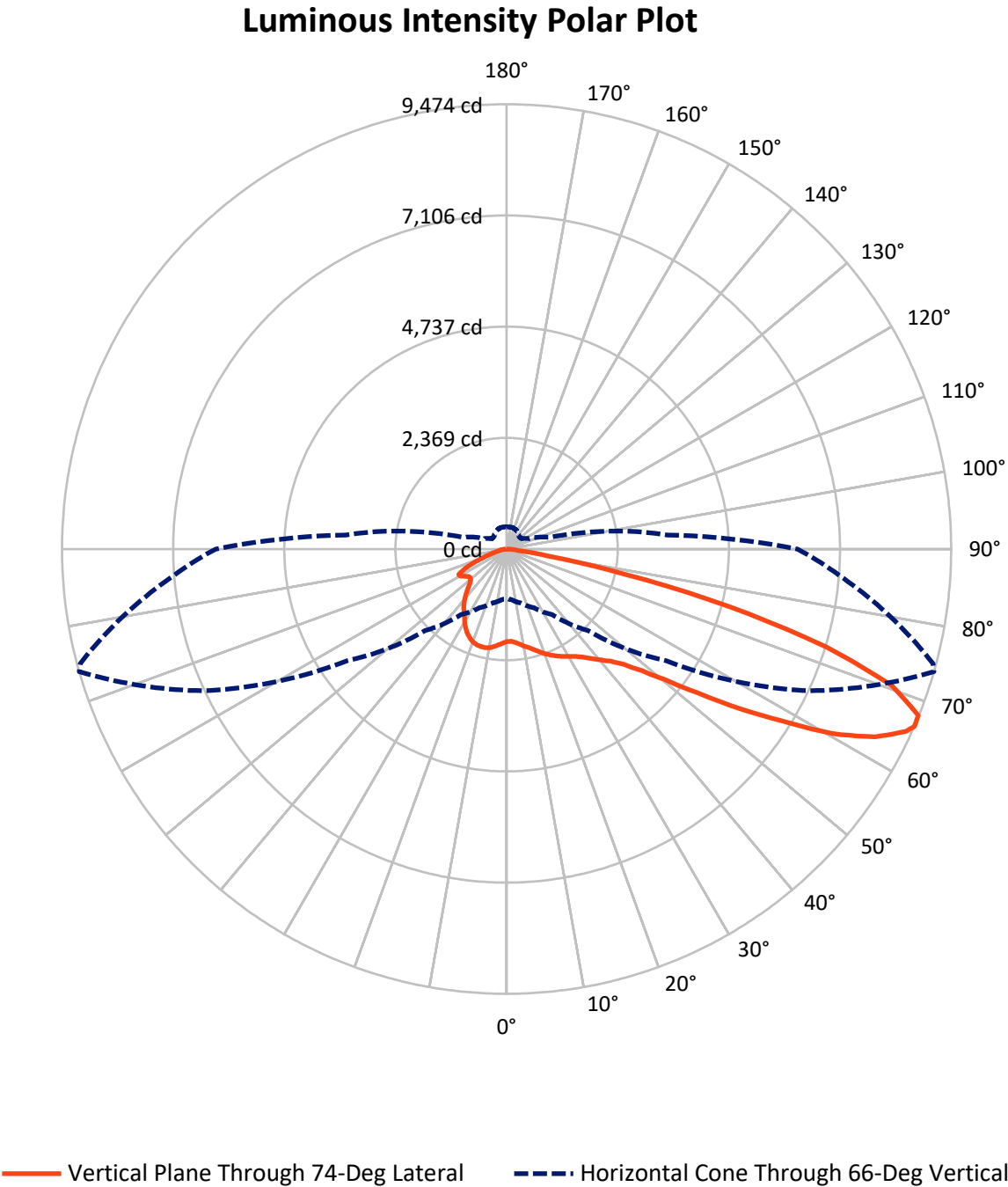
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



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

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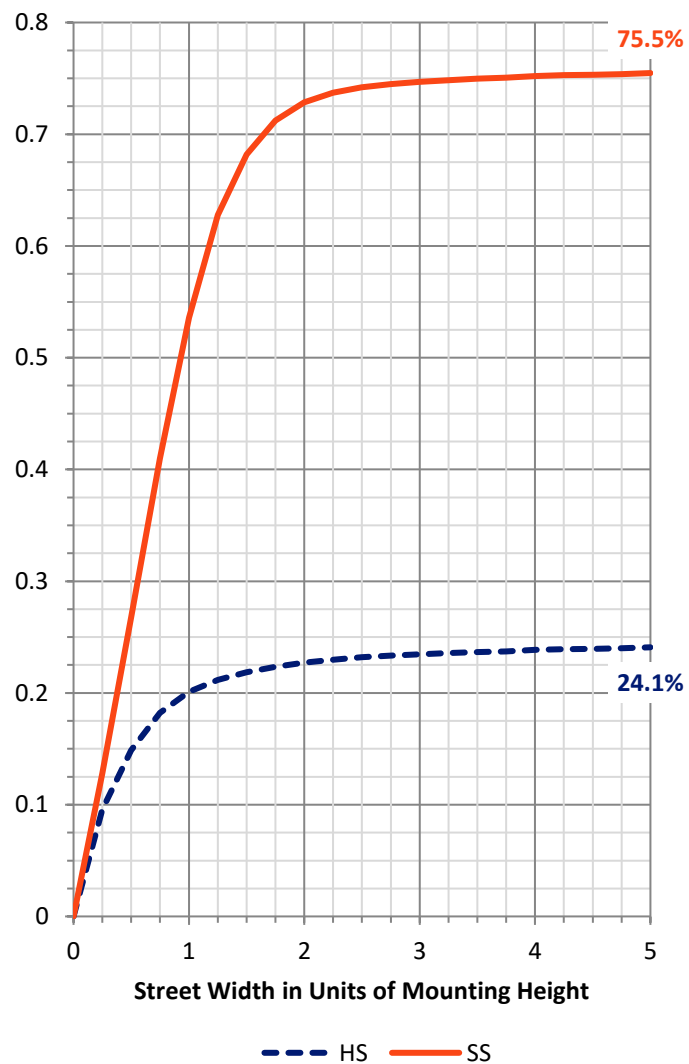
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2924.5	0.0	2924.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	9084.5	0.0	9084.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	12009.0	0.0	12009.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	1.6
10°-20°	577.5	4.8
20°-30°	1083.7	9.0
30°-40°	1667.0	13.9
40°-50°	2242.2	18.7
50°-60°	2651.7	22.1
60°-70°	2453.0	20.4
70°-80°	1031.9	8.6
80°-90°	114.2	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°	12009.0	100.0
0°-180°	12009.0	100.0

Coefficient of Utilization



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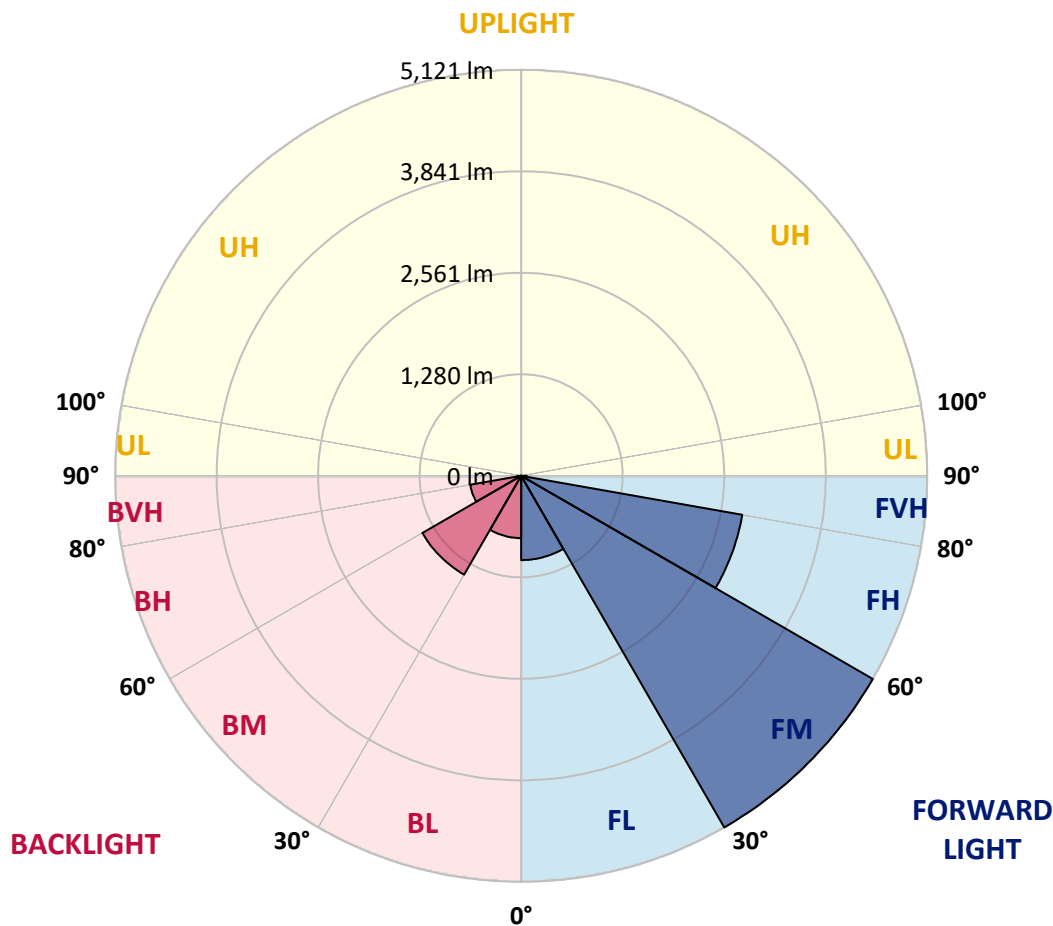
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1062.9	8.9			
FM	(30°-60°)	5121.2	42.6			
FH	(60°-80°)	2832.1	23.6			G2/5000
FVH	(80°-90°)	68.3	0.6			G1/100
BL	(0°-30°)	786.0	6.5	B2/1000		
BM	(30°-60°)	1439.7	12.0	B2/2500		
BH	(60°-80°)	652.9	5.4	B2/1000		G2/1000
BVH	(80°-90°)	45.9	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°	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7
2.5°	1962.5	1959.4	1965.6	1974.9	1979.5	1971.8	1968.7	1967.1	1967.1	1962.5	1970.2
5°	1869.8	1868.2	1882.1	1899.1	1931.6	1954.8	1985.7	2004.2	1998.0	1988.8	1994.9
7.5°	1749.2	1746.2	1763.2	1795.6	1840.4	1891.4	1967.1	2025.8	2049.0	2045.9	2044.4
10°	1795.6	1792.5	1791.0	1781.7	1797.1	1846.6	1925.4	2028.9	2107.7	2109.3	2110.8
12.5°	1956.3	1964.0	1956.3	1927.0	1893.0	1874.4	1920.8	2036.7	2157.2	2166.5	2205.1
15°	2175.7	2168.0	2152.6	2118.6	2066.0	2010.4	1976.4	2072.2	2228.3	2236.0	2321.0
17.5°	2368.9	2375.1	2365.8	2333.4	2271.5	2198.9	2095.4	2134.0	2304.0	2325.6	2444.6
20°	2579.1	2603.8	2591.4	2551.2	2500.2	2392.1	2262.3	2223.6	2387.4	2402.9	2572.9
22.5°	2821.7	2847.9	2824.8	2786.1	2744.4	2611.5	2444.6	2333.4	2457.0	2489.4	2696.5
25°	3112.2	3136.9	3115.3	3055.0	3002.5	2840.2	2640.9	2457.0	2525.0	2560.5	2796.9
27.5°	3342.4	3361.0	3381.1	3345.5	3265.2	3096.7	2844.8	2585.2	2593.0	2630.1	2889.7
30°	3547.9	3594.3	3611.3	3615.9	3547.9	3359.4	3053.5	2718.1	2651.7	2690.3	2982.4
32.5°	3829.2	3898.7	3870.9	3898.7	3858.5	3606.7	3269.8	2855.7	2727.4	2762.9	3070.5
35°	4240.2	4295.9	4223.2	4201.6	4136.7	3857.0	3478.4	2997.8	2827.8	2866.5	3153.9
37.5°	4682.2	4745.5	4640.4	4553.9	4430.3	4104.2	3657.7	3184.8	2966.9	2997.8	3231.2
40°	5068.5	5121.0	5029.9	4915.5	4708.4	4322.1	3812.2	3316.2	3106.0	3144.6	3320.8
42.5°	5425.4	5459.4	5357.5	5247.7	4971.1	4518.4	3979.1	3455.2	3268.2	3305.3	3393.4
45°	5787.0	5813.3	5671.1	5515.1	5190.6	4697.6	4163.0	3649.9	3506.2	3555.7	3510.9
47.5°	5851.9	5859.7	5834.9	5729.9	5363.6	4869.1	4390.1	3911.1	3869.4	3923.4	3713.3
50°	5402.3	5471.8	5624.8	5728.3	5433.2	5012.9	4617.3	4285.0	4370.0	4439.6	4133.6
52.5°	4529.2	4595.6	4949.5	5342.0	5266.3	5045.3	4861.4	4759.4	5076.2	5159.7	4705.3
55°	3608.2	3666.9	4040.9	4606.5	4727.0	4897.0	5122.6	5365.2	5977.1	6032.7	5332.7
57.5°	2971.6	3004.0	3271.3	3815.3	4008.4	4422.6	5263.2	6085.3	6893.5	6978.4	5878.2
60°	2436.9	2472.4	2671.8	3119.9	3376.4	3744.2	5151.9	6796.1	7987.5	7987.5	6578.2
62.5°	1834.2	1865.1	2050.6	2401.4	2832.5	3169.3	4796.5	7267.4	8812.7	8775.6	7085.1
65°	1259.4	1284.1	1418.6	1651.9	2039.8	2701.1	4311.3	7273.6	9359.7	9310.3	7301.4
66°	1057.0	1078.6	1192.9	1381.5	1707.5	2450.8	4139.8	7142.2	9474.1	9404.5	7210.2
67.5°	834.4	849.9	925.6	1036.9	1251.7	1984.1	3869.4	6769.8	9463.2	9421.5	6978.4
70°	596.5	607.3	662.9	686.1	740.2	1148.1	3073.5	5929.2	8704.5	8716.9	6066.7
72.5°	462.0	479.0	513.0	517.7	505.3	610.4	1865.1	4946.4	7120.6	7116.0	4502.9
75°	372.4	381.7	398.7	408.0	404.9	394.0	789.6	3690.1	4901.6	4958.8	2521.9
77.5°	293.6	292.1	307.5	319.9	329.1	309.1	361.6	2163.4	2569.8	2497.2	947.3
80°	216.3	216.3	238.0	242.6	256.5	259.6	241.1	834.4	882.3	802.0	245.7
82.5°	142.2	142.2	165.3	168.4	182.3	202.4	174.6	250.3	244.2	231.8	111.3
85°	77.3	74.2	81.9	92.7	100.4	119.0	105.1	125.2	128.3	126.7	74.2
87.5°	15.5	13.9	21.6	24.7	27.8	37.1	34.0	51.0	71.1	69.5	32.5
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°	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7
2.5°	1981.0	1979.5	1996.5	2016.6	2039.8	2053.7	2059.8	2070.7	2062.9	2066.0	2075.3
5°	2010.4	2015.0	2039.8	2066.0	2076.8	2069.1	2052.1	2045.9	2032.0	2028.9	2025.8
7.5°	2053.7	2061.4	2086.1	2092.3	2059.8	2005.8	1967.1	1945.5	1922.3	1916.1	1913.0
10°	2124.7	2129.4	2135.6	2072.2	1991.9	1919.2	1871.3	1851.2	1835.8	1823.4	1826.5
12.5°	2214.4	2211.3	2163.4	2032.0	1917.7	1843.5	1811.1	1798.7	1787.9	1780.2	1778.6
15°	2327.2	2305.5	2168.0	1976.4	1848.1	1786.3	1763.2	1758.5	1746.2	1746.2	1744.6
17.5°	2441.5	2385.9	2164.9	1917.7	1781.7	1747.7	1733.8	1730.7	1727.6	1726.1	1730.7
20°	2555.9	2457.0	2140.2	1845.1	1735.3	1715.3	1712.2	1713.7	1710.6	1715.3	1712.2
22.5°	2656.3	2503.3	2093.8	1767.8	1702.9	1701.3	1693.6	1696.7	1707.5	1709.1	1713.7
25°	2733.6	2520.3	2025.8	1696.7	1679.7	1676.6	1685.9	1698.3	1707.5	1709.1	1716.8
27.5°	2796.9	2511.1	1940.9	1641.1	1639.5	1656.5	1684.3	1689.0	1690.5	1690.5	1684.3
30°	2844.8	2491.0	1832.7	1579.3	1587.0	1628.7	1655.0	1655.0	1642.6	1639.5	1648.8
32.5°	2855.7	2464.7	1715.3	1515.9	1528.3	1577.7	1610.2	1599.4	1585.4	1585.4	1591.6
35°	2864.9	2429.2	1621.0	1429.4	1447.9	1506.6	1537.5	1515.9	1500.5	1495.8	1494.3
37.5°	2861.8	2415.3	1536.0	1319.7	1344.4	1401.6	1421.6	1401.6	1378.4	1367.6	1381.5
40°	2864.9	2406.0	1429.4	1199.1	1223.9	1257.9	1284.1	1268.7	1247.0	1219.2	1233.1
42.5°	2883.5	2418.3	1311.9	1081.7	1081.7	1100.2	1145.0	1134.2	1081.7	1070.9	1083.2
45°	2982.4	2484.8	1194.5	964.2	947.3	959.6	1006.0	959.6	927.2	927.2	938.0
47.5°	3221.9	2608.4	1091.0	860.7	820.5	845.3	857.6	814.4	789.6	783.5	794.3
50°	3710.2	2855.7	1029.2	775.7	726.3	744.8	737.1	735.5	710.8	713.9	720.1
52.5°	4451.9	3337.8	1010.6	734.0	672.2	676.8	669.1	672.2	667.6	683.0	687.6
55°	5260.1	3846.2	1033.8	740.2	635.1	602.7	605.7	621.2	639.7	664.5	669.1
57.5°	5864.3	4101.1	1094.1	781.9	588.7	539.3	547.0	576.4	611.9	632.0	642.8
60°	6314.0	4070.2	1182.1	792.7	533.1	482.1	496.0	539.3	570.2	587.2	598.0
62.5°	6460.8	3877.1	1203.8	713.9	460.5	428.0	462.0	506.8	520.8	539.3	547.0
65°	6340.2	3603.6	1046.1	579.5	404.9	387.9	437.3	471.3	489.9	499.1	500.7
66°	6198.1	3439.8	961.2	526.9	384.8	375.5	428.0	455.9	474.4	472.9	474.4
67.5°	5885.9	3096.7	823.6	452.8	355.4	357.0	412.6	431.1	437.3	432.7	432.7
70°	4824.3	2180.4	590.3	343.1	312.1	333.8	370.9	375.5	389.4	383.2	383.2
72.5°	2974.6	1070.9	395.6	262.7	278.1	312.1	310.6	326.1	358.5	367.8	374.0
75°	1461.8	434.2	261.2	222.5	248.8	261.2	258.1	296.7	343.1	383.2	397.1
77.5°	554.8	216.3	182.3	194.7	200.9	196.2	205.5	268.9	343.1	415.7	429.6
80°	171.5	149.9	143.7	160.7	151.4	143.7	154.5	222.5	290.5	315.2	315.2
82.5°	103.5	117.4	111.3	109.7	102.0	103.5	111.3	159.2	224.1	234.9	234.9
85°	72.6	77.3	63.4	60.3	58.7	57.2	57.2	92.7	132.9	131.3	136.0
87.5°	27.8	30.9	23.2	23.2	21.6	15.5	12.4	15.5	15.5	10.8	7.7
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)