

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: P800185

Luminaire Tested: **ARCH2-80-740-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11133 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.3
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

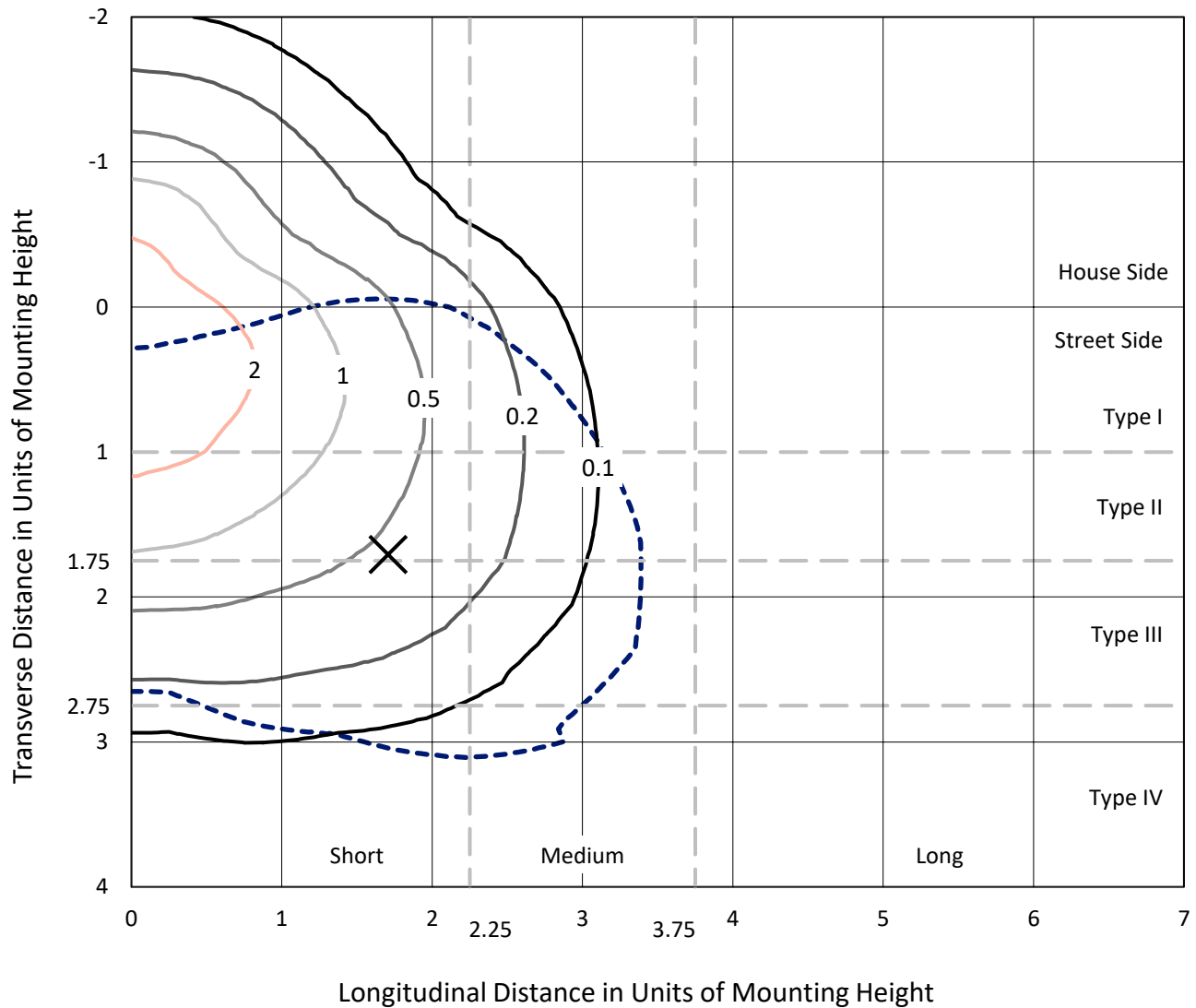


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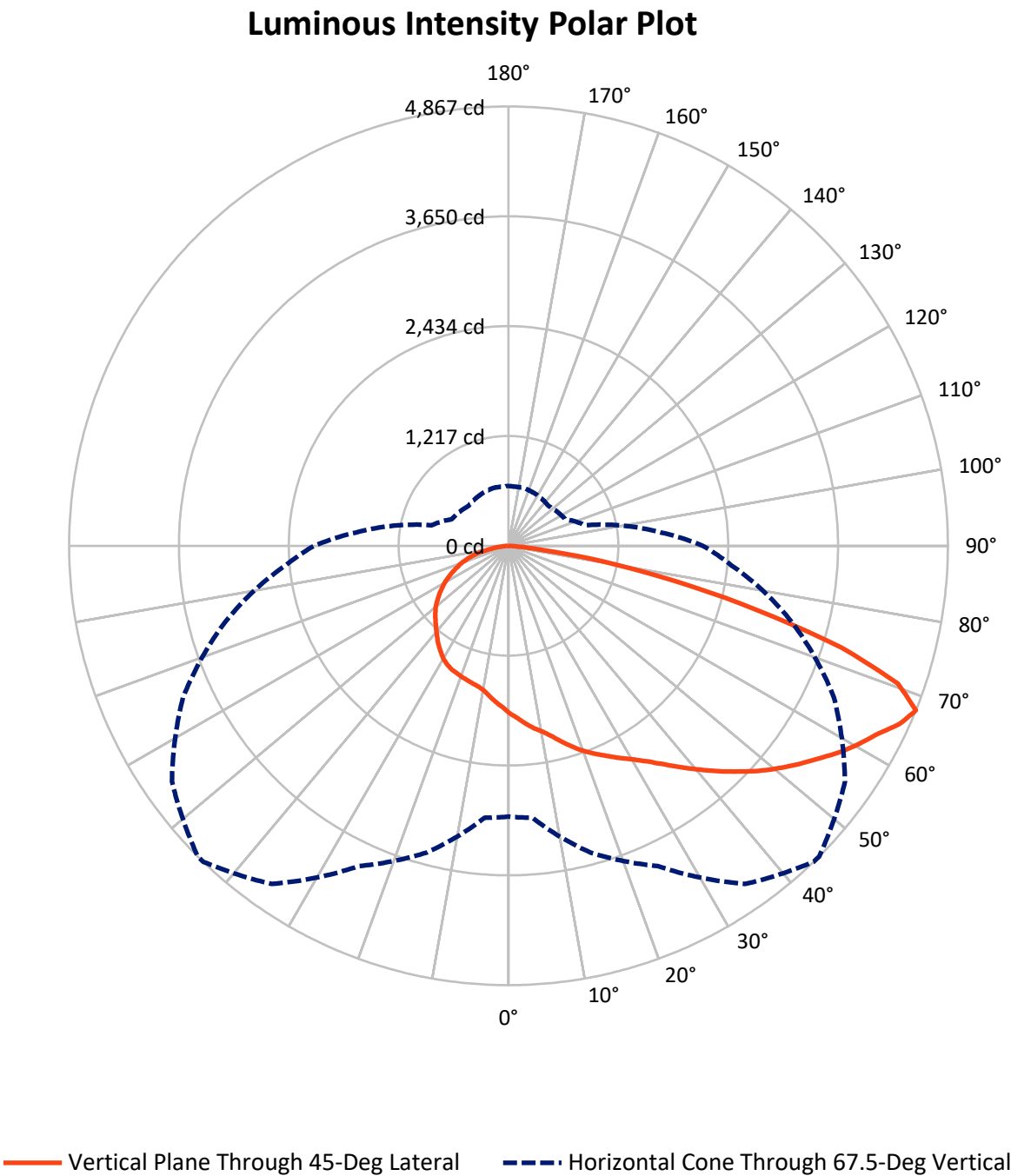
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type IV - Short - N/A

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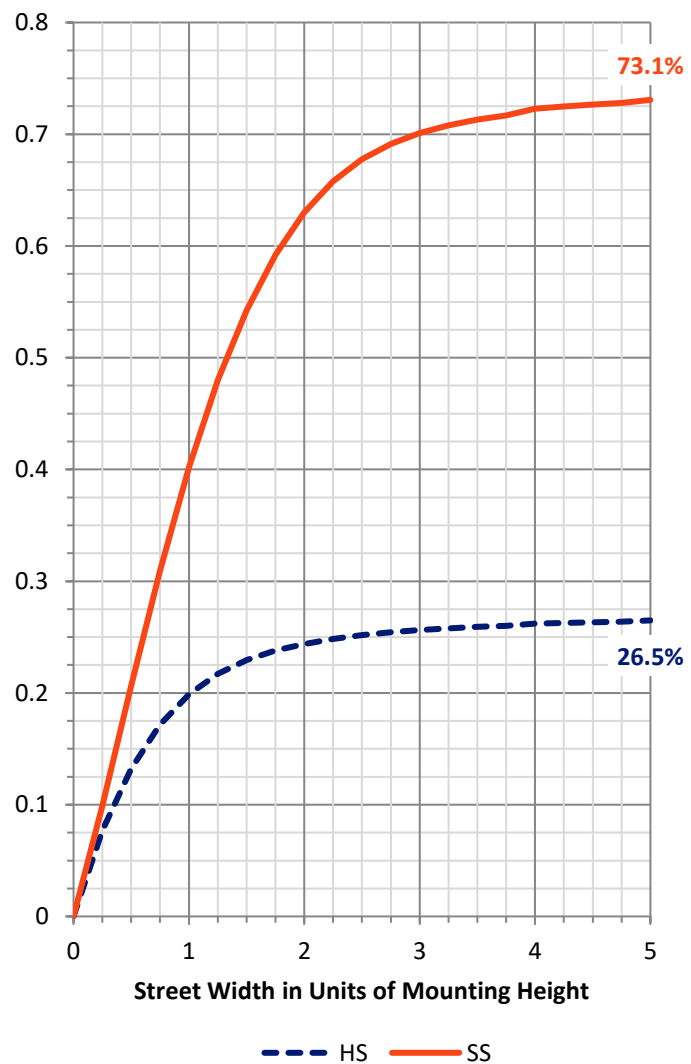
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2974.2	0.0	2974.2
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	8158.8	0.0	8158.8
	% Fixture	73.3	0.0	73.3
Total	Lumens	11133.0	0.0	11133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	1.6
10°-20°	549.2	4.9
20°-30°	947.9	8.5
30°-40°	1397.9	12.6
40°-50°	1893.9	17.0
50°-60°	2314.7	20.8
60°-70°	2387.3	21.4
70°-80°	1307.6	11.7
80°-90°	156.7	1.4
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°	11133.0	100.0
0°-180°	11133.0	100.0

Coefficient of Utilization



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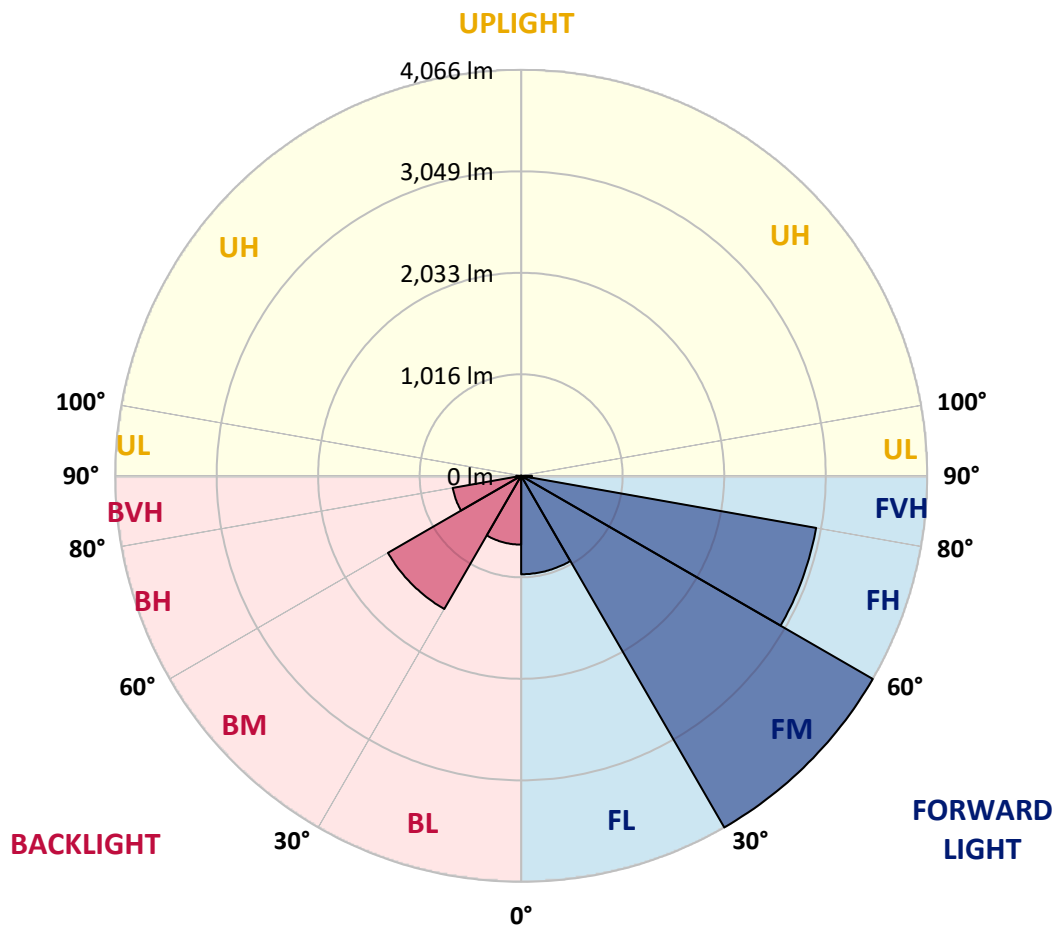
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	985.6	8.9			
FM	(30°-60°)	4065.9	36.5			
FH	(60°-80°)	2999.4	26.9			G2/5000
FVH	(80°-90°)	108.0	1.0			G2/225
BL	(0°-30°)	689.3	6.2	B2/1000		
BM	(30°-60°)	1540.6	13.8	B2/2500		
BH	(60°-80°)	695.5	6.2	B2/1000		G2/1000
BVH	(80°-90°)	48.8	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1856.8	1856.8	1856.8	1856.8	1856.8	1856.8	1856.8	1856.8	1856.8	1856.8	1856.8
2.5°	1938.1	1936.4	1939.8	1927.9	1912.7	1911.0	1911.0	1900.8	1889.0	1865.2	1846.6
5°	2029.6	2026.2	2027.9	2010.9	1990.6	1980.4	1978.8	1956.7	1929.6	1892.4	1858.5
7.5°	2114.3	2110.9	2109.2	2090.6	2060.1	2043.1	2041.4	2009.2	1977.1	1919.5	1870.3
10°	2193.9	2190.5	2187.1	2161.7	2124.4	2099.0	2095.6	2055.0	2014.3	1943.2	1880.5
12.5°	2295.6	2288.8	2285.4	2254.9	2200.7	2173.6	2168.5	2114.3	2063.5	1977.1	1900.8
15°	2402.3	2397.2	2392.1	2363.3	2302.3	2266.8	2258.3	2190.5	2121.1	2021.1	1931.3
17.5°	2481.9	2476.8	2476.8	2451.4	2395.5	2354.8	2348.1	2266.8	2180.4	2061.8	1955.0
20°	2531.0	2526.0	2531.0	2515.8	2473.4	2439.6	2432.8	2343.0	2239.6	2099.0	1975.4
22.5°	2566.6	2561.5	2570.0	2563.2	2532.7	2512.4	2507.3	2419.2	2300.6	2138.0	1995.7
25°	2629.3	2629.3	2629.3	2617.4	2588.6	2581.9	2581.9	2505.6	2378.6	2188.8	2026.2
27.5°	2754.7	2747.9	2739.4	2705.5	2656.4	2654.7	2664.9	2593.7	2468.4	2254.9	2063.5
30°	2939.3	2935.9	2903.7	2832.6	2749.6	2741.1	2747.9	2688.6	2564.9	2324.4	2105.8
32.5°	3178.2	3166.3	3100.3	2993.5	2874.9	2836.0	2849.5	2786.9	2666.6	2395.5	2146.5
35°	3347.6	3351.0	3303.6	3207.0	3066.4	2963.0	2973.2	2897.0	2776.7	2475.1	2197.3
37.5°	3542.4	3554.3	3483.1	3410.3	3279.8	3103.7	3113.8	3010.5	2886.8	2575.1	2251.5
40°	3811.8	3788.1	3667.8	3581.4	3437.4	3251.0	3259.5	3137.5	3013.9	2670.0	2314.2
42.5°	4037.1	3994.8	3849.1	3739.0	3566.2	3406.9	3415.4	3274.8	3142.6	2775.0	2383.6
45°	4360.7	4243.8	4033.7	3979.5	3698.3	3559.4	3567.9	3420.5	3278.2	2886.8	2458.2
47.5°	4548.8	4362.4	4228.6	4199.8	3844.0	3716.9	3727.1	3574.6	3423.8	3013.9	2536.1
50°	4536.9	4416.6	4377.6	4306.5	3972.7	3864.3	3874.5	3733.9	3571.2	3139.2	2610.7
52.5°	4459.0	4481.0	4460.7	4342.1	4101.5	4006.6	4018.5	3891.4	3722.0	3256.1	2680.1
55°	4579.3	4594.5	4555.5	4399.7	4243.8	4148.9	4162.5	4057.5	3871.1	3359.5	2739.4
57.5°	4723.3	4669.0	4630.1	4501.3	4391.2	4303.1	4318.4	4226.9	3999.9	3442.5	2785.2
60°	4716.5	4603.0	4641.9	4508.1	4491.2	4445.4	4459.0	4365.8	4098.1	3503.5	2803.8
62.5°	4369.2	4308.2	4504.7	4459.0	4572.5	4572.5	4589.4	4450.5	4157.4	3528.9	2793.6
65°	3766.1	3769.5	4115.1	4304.8	4669.0	4747.0	4760.5	4503.0	4123.5	3454.3	2698.8
67.5°	3000.3	3022.3	3518.7	3913.5	4572.5	4865.6	4867.3	4550.4	3977.8	3244.3	2478.5
70°	2195.6	2212.5	2798.7	3278.2	4116.8	4603.0	4575.9	4416.6	3661.0	2878.3	2134.6
72.5°	1484.1	1499.3	2102.4	2517.5	3378.1	3920.2	3860.9	3903.3	3120.6	2365.0	1716.2
75°	997.8	1016.5	1495.9	1800.9	2485.3	2976.6	2844.5	2956.3	2414.1	1790.7	1252.0
77.5°	628.5	640.4	950.4	1180.8	1697.5	2026.2	1894.0	1895.7	1390.9	964.0	672.6
80°	399.8	403.2	576.0	681.0	982.6	1218.1	1077.5	875.9	626.8	511.6	401.5
82.5°	232.1	227.0	343.9	384.6	467.6	462.5	382.9	362.5	274.5	255.8	205.0
85°	93.2	86.4	150.8	140.6	142.3	150.8	111.8	111.8	89.8	69.5	50.8
87.5°	18.6	18.6	20.3	18.6	18.6	20.3	15.2	15.2	13.6	13.6	13.6
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°	1856.8	1856.8	1856.8	1856.8	1856.8	1856.8	1856.8	1856.8	1856.8	1856.8	1856.8
2.5°	1843.2	1839.8	1831.4	1809.3	1797.5	1790.7	1780.5	1777.1	1775.5	1777.1	1782.2
5°	1848.3	1836.4	1812.7	1777.1	1753.4	1738.2	1721.2	1714.5	1709.4	1709.4	1714.5
7.5°	1851.7	1833.1	1792.4	1739.9	1706.0	1682.3	1661.9	1653.5	1651.8	1656.9	1658.6
10°	1853.4	1826.3	1768.7	1702.6	1658.6	1628.1	1607.7	1602.7	1607.7	1617.9	1619.6
12.5°	1865.2	1828.0	1755.1	1677.2	1624.7	1594.2	1578.9	1578.9	1592.5	1611.1	1612.8
15°	1885.6	1839.8	1748.3	1656.9	1602.7	1575.5	1570.5	1578.9	1599.3	1628.1	1631.5
17.5°	1900.8	1846.6	1733.1	1629.8	1573.9	1556.9	1565.4	1585.7	1614.5	1653.5	1656.9
20°	1911.0	1846.6	1711.1	1597.6	1545.1	1541.7	1565.4	1597.6	1628.1	1673.8	1678.9
22.5°	1921.2	1843.2	1685.7	1558.6	1512.9	1523.0	1567.1	1607.7	1638.2	1687.4	1695.8
25°	1939.8	1848.3	1660.3	1519.6	1479.0	1507.8	1565.4	1614.5	1646.7	1697.5	1711.1
27.5°	1965.2	1860.2	1641.6	1484.1	1445.1	1484.1	1553.5	1612.8	1646.7	1695.8	1711.1
30°	1992.3	1873.7	1619.6	1445.1	1406.1	1450.2	1528.1	1594.2	1633.1	1678.9	1697.5
32.5°	2021.1	1889.0	1601.0	1402.7	1358.7	1404.4	1490.8	1565.4	1607.7	1650.1	1670.4
35°	2060.1	1916.1	1590.8	1368.9	1316.3	1357.0	1443.4	1528.1	1573.9	1612.8	1636.5
37.5°	2107.5	1950.0	1585.7	1335.0	1270.6	1304.5	1392.6	1482.4	1531.5	1563.7	1585.7
40°	2161.7	1992.3	1584.0	1302.8	1224.9	1250.3	1340.1	1429.9	1477.3	1502.7	1521.3
42.5°	2222.7	2039.7	1580.6	1270.6	1179.1	1199.4	1289.2	1377.3	1418.0	1440.0	1457.0
45°	2287.1	2087.2	1573.9	1231.6	1130.0	1153.7	1236.7	1314.6	1357.0	1375.6	1394.3
47.5°	2351.5	2134.6	1560.3	1187.6	1085.9	1108.0	1180.8	1248.6	1282.5	1299.4	1318.0
50°	2414.1	2177.0	1528.1	1136.8	1040.2	1060.5	1116.4	1162.2	1187.6	1201.1	1219.8
52.5°	2470.1	2205.8	1482.4	1077.5	994.5	1004.6	1041.9	1080.9	1101.2	1102.9	1119.8
55°	2517.5	2221.0	1416.3	1016.5	945.3	947.0	967.4	997.8	1006.3	999.5	1011.4
57.5°	2544.6	2212.5	1343.4	953.8	894.5	887.7	903.0	918.2	919.9	903.0	914.8
60°	2551.4	2173.6	1248.6	891.1	843.7	825.0	830.1	826.7	823.4	816.6	826.7
62.5°	2517.5	2090.6	1143.5	830.1	789.5	760.7	759.0	757.3	762.4	764.1	765.7
65°	2393.8	1934.7	1018.2	767.4	731.9	692.9	691.2	711.5	718.3	708.1	711.5
67.5°	2154.9	1695.8	881.0	694.6	659.0	625.1	638.7	650.5	662.4	659.0	662.4
70°	1816.1	1392.6	755.6	613.3	579.4	560.8	576.0	586.2	587.9	584.5	587.9
72.5°	1428.2	1087.6	638.7	530.3	499.8	491.3	509.9	518.4	533.7	540.4	542.1
75°	1031.7	803.0	523.5	440.5	415.1	415.1	432.0	447.3	460.8	452.3	447.3
77.5°	576.0	479.4	376.1	303.3	308.3	332.1	338.8	355.8	369.3	367.6	364.2
80°	349.0	299.9	254.1	196.5	194.8	213.5	257.5	286.3	293.1	277.8	276.1
82.5°	181.3	157.6	135.5	110.1	122.0	142.3	149.1	179.6	198.2	191.4	199.9
85°	45.7	44.0	49.1	50.8	62.7	69.5	76.2	89.8	59.3	28.8	28.8
87.5°	13.6	13.6	16.9	16.9	22.0	27.1	25.4	25.4	13.6	1.7	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)