

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: P800249

Luminaire Tested: **ARCH2-90-722-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800249
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: ARCH2-90-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10010 lumens
Efficiency: N/A
Efficacy: 106.8 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): 93.7
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



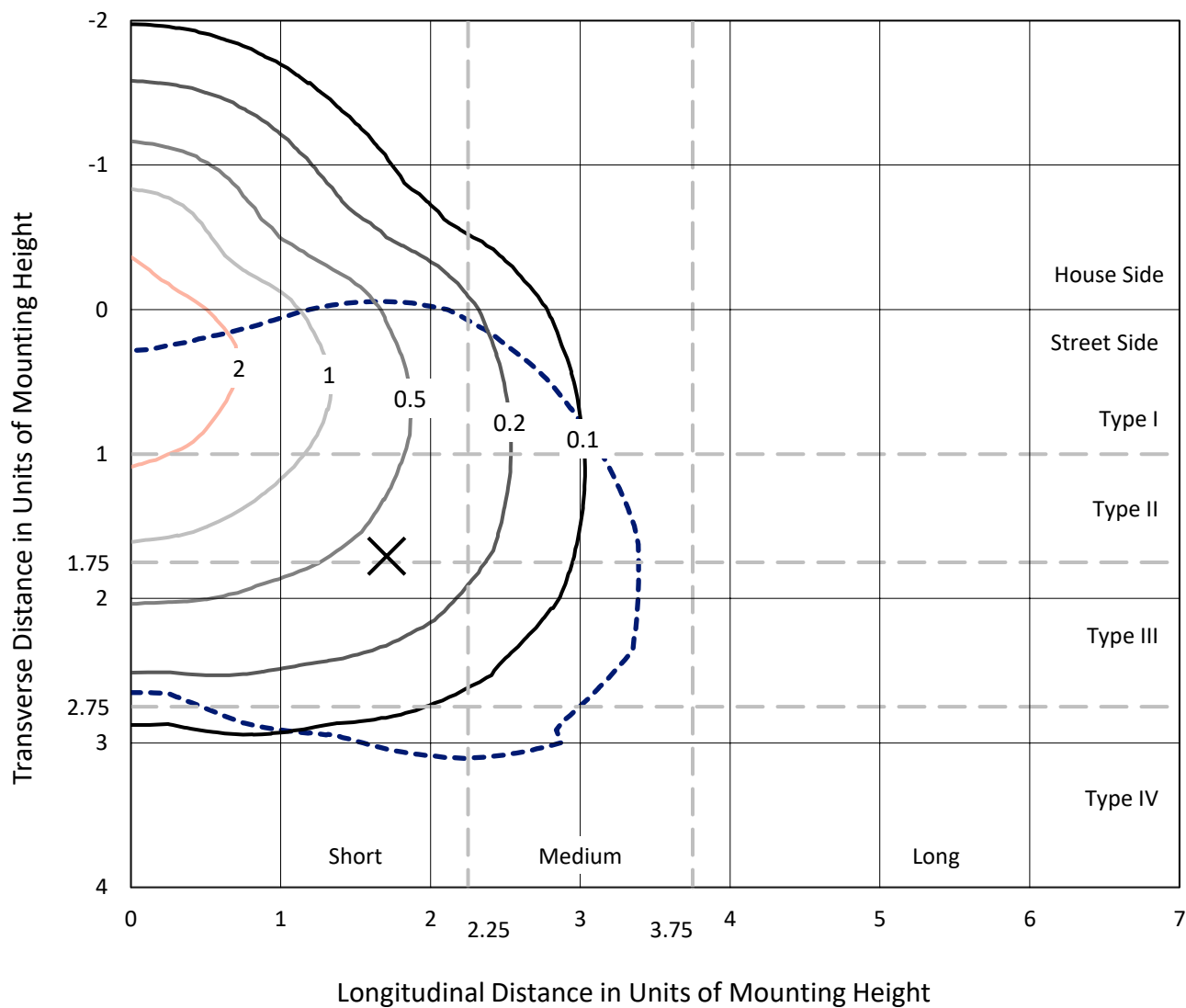
REPORT NUMBER: P800249

CATALOG NUMBER: ARCH2-90-722-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



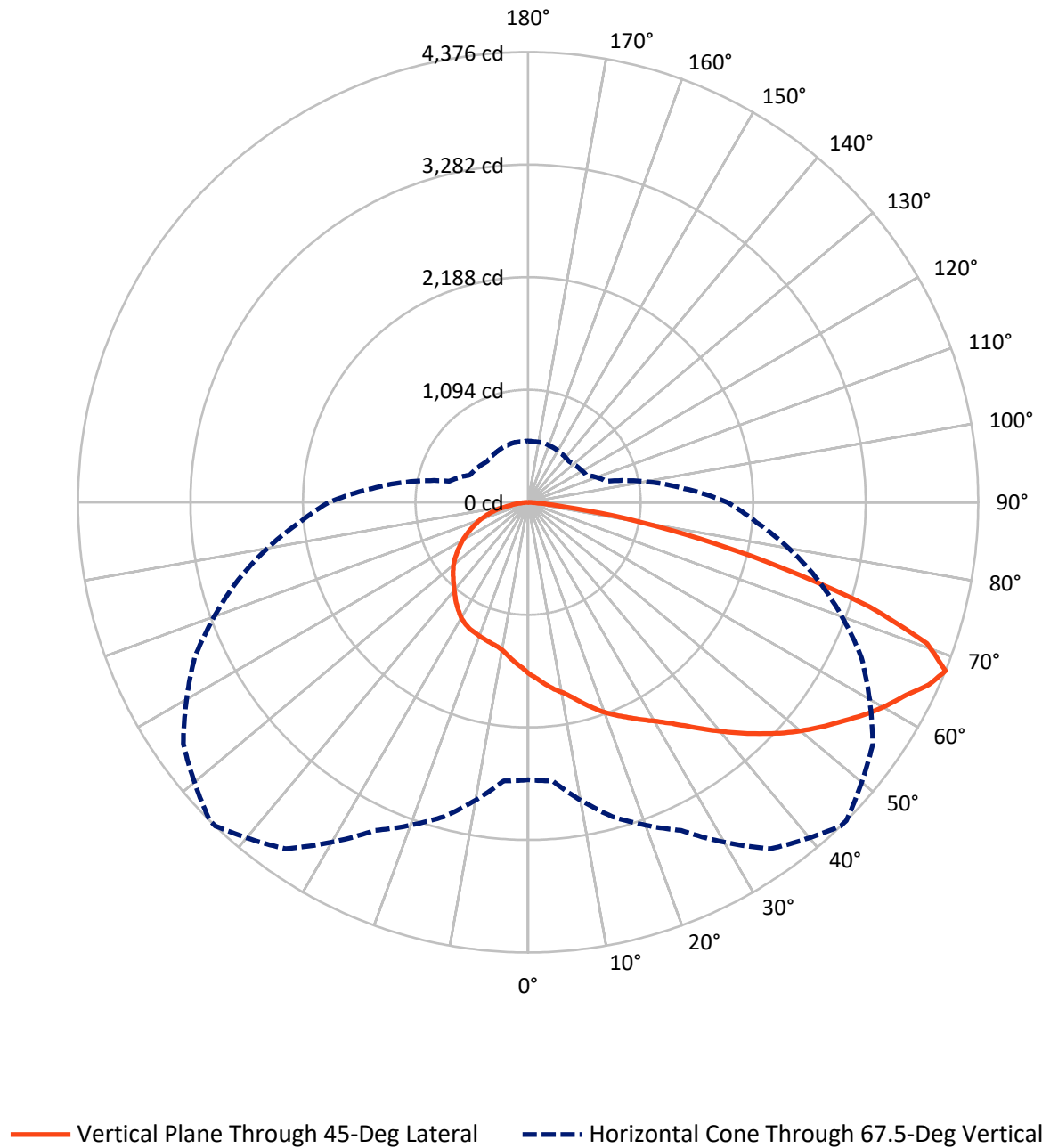
Based on 25 foot mounting height. Maximum calculated value = 3.1 fc

Type IV - Short - N/A

REPORT NUMBER: P800249

CATALOG NUMBER: ARCH2-90-722-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P800249

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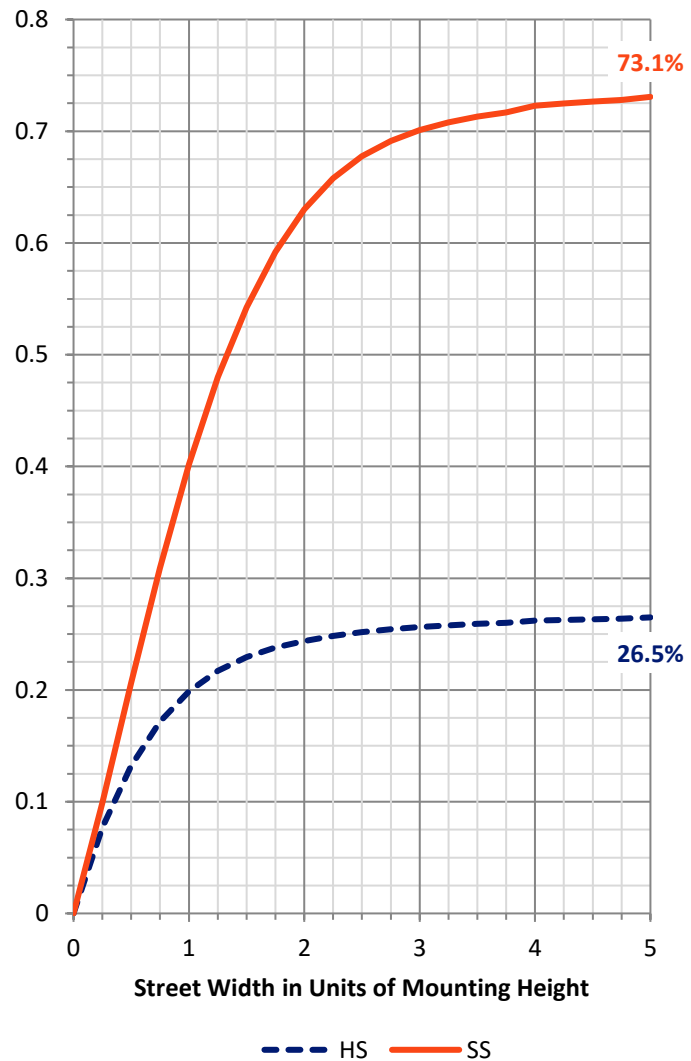
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2674.2	0.0	2674.2
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	7335.8	0.0	7335.8
	% Fixture	73.3	0.0	73.3
Total	Lumens	10010.0	0.0	10010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	1.6
10°-20°	493.8	4.9
20°-30°	852.3	8.5
30°-40°	1256.9	12.6
40°-50°	1702.8	17.0
50°-60°	2081.2	20.8
60°-70°	2146.5	21.4
70°-80°	1175.7	11.7
80°-90°	140.9	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°	10010.0	100.0
0°-180°	10010.0	100.0

Coefficient of Utilization



REPORT NUMBER: P800249

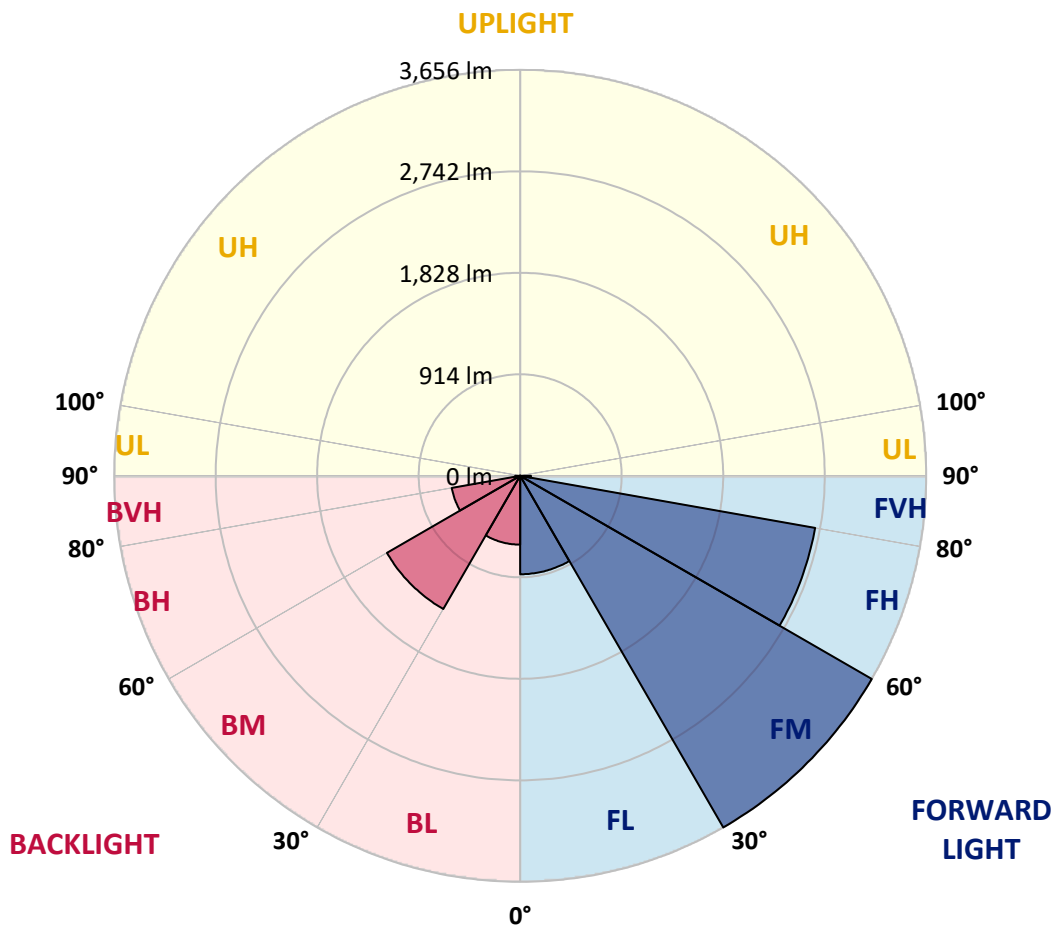
CATALOG NUMBER: ARCH2-90-722-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	886.2	8.9			
FM	(30°-60°)	3655.7	36.5			
FH	(60°-80°)	2696.8	26.9			G2/5000
FVH	(80°-90°)	97.1	1.0			G1/100
BL	(0°-30°)	619.8	6.2	B2/1000		
BM	(30°-60°)	1385.2	13.8	B2/2500		
BH	(60°-80°)	625.4	6.2	B2/1000		G2/1000
BVH	(80°-90°)	43.8	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



REPORT NUMBER: P800249

CATALOG NUMBER: ARCH2-90-722-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5
2.5°	1742.6	1741.1	1744.1	1733.5	1719.7	1718.2	1718.2	1709.1	1698.4	1677.1	1660.3
5°	1824.8	1821.8	1823.3	1808.1	1789.8	1780.7	1779.2	1759.3	1735.0	1701.5	1671.0
7.5°	1901.0	1898.0	1896.4	1879.7	1852.3	1837.0	1835.5	1806.6	1777.6	1725.8	1681.7
10°	1972.6	1969.6	1966.5	1943.7	1910.2	1887.3	1884.3	1847.7	1811.1	1747.2	1690.8
12.5°	2064.0	2057.9	2054.9	2027.4	1978.7	1954.3	1949.8	1901.0	1855.3	1777.6	1709.1
15°	2160.0	2155.4	2150.8	2124.9	2070.1	2038.1	2030.5	1969.6	1907.1	1817.2	1736.5
17.5°	2231.6	2227.0	2227.0	2204.1	2153.9	2117.3	2111.2	2038.1	1960.4	1853.8	1757.8
20°	2275.7	2271.2	2275.7	2262.0	2223.9	2193.5	2187.4	2106.6	2013.7	1887.3	1776.1
22.5°	2307.7	2303.1	2310.8	2304.7	2277.3	2259.0	2254.4	2175.2	2068.6	1922.3	1794.4
25°	2364.1	2364.1	2364.1	2353.4	2327.5	2321.4	2321.4	2252.9	2138.6	1968.0	1821.8
27.5°	2476.8	2470.7	2463.1	2432.6	2388.5	2386.9	2396.1	2332.1	2219.4	2027.4	1855.3
30°	2642.8	2639.8	2610.8	2546.9	2472.2	2464.6	2470.7	2417.4	2306.2	2089.9	1893.4
32.5°	2857.6	2846.9	2787.5	2691.6	2584.9	2549.9	2562.1	2505.7	2397.6	2153.9	1930.0
35°	3009.9	3013.0	2970.3	2883.5	2757.1	2664.2	2673.3	2604.8	2496.6	2225.5	1975.7
37.5°	3185.1	3195.8	3131.8	3066.3	2949.0	2790.6	2799.7	2706.8	2595.6	2315.3	2024.4
40°	3427.3	3406.0	3297.8	3220.1	3090.7	2923.1	2930.7	2821.1	2709.9	2400.6	2080.8
42.5°	3629.9	3591.8	3460.8	3361.8	3206.4	3063.2	3070.9	2944.4	2825.6	2495.1	2143.2
45°	3920.8	3815.7	3626.8	3578.1	3325.2	3200.3	3208.0	3075.4	2947.5	2595.6	2210.2
47.5°	4089.9	3922.4	3802.0	3776.1	3456.2	3342.0	3351.1	3214.1	3078.5	2709.9	2280.3
50°	4079.3	3971.1	3936.1	3872.1	3572.0	3474.5	3483.7	3357.2	3211.0	2822.6	2347.3
52.5°	4009.2	4029.0	4010.7	3904.1	3687.8	3602.5	3613.1	3498.9	3346.6	2927.7	2409.8
55°	4117.3	4131.0	4096.0	3955.9	3815.7	3730.4	3742.6	3648.2	3480.6	3020.6	2463.1
57.5°	4246.8	4198.1	4163.0	4047.3	3948.3	3869.0	3882.8	3800.5	3596.4	3095.2	2504.2
60°	4240.7	4138.7	4173.7	4053.4	4038.1	3997.0	4009.2	3925.4	3684.7	3150.1	2521.0
62.5°	3928.5	3873.6	4050.3	4009.2	4111.2	4111.2	4126.5	4001.6	3738.0	3172.9	2511.8
65°	3386.2	3389.2	3700.0	3870.6	4198.1	4268.1	4280.3	4048.8	3707.6	3105.9	2426.5
67.5°	2697.7	2717.5	3163.8	3518.7	4111.2	4374.8	4376.3	4091.4	3576.6	2917.0	2228.5
70°	1974.1	1989.4	2516.4	2947.5	3701.5	4138.7	4114.3	3971.1	3291.7	2588.0	1919.3
72.5°	1334.4	1348.1	1890.3	2263.5	3037.4	3524.8	3471.5	3509.6	2805.8	2126.5	1543.0
75°	897.2	913.9	1345.0	1619.2	2234.6	2676.3	2557.5	2658.1	2170.6	1610.1	1125.7
77.5°	565.1	575.8	854.5	1061.7	1526.3	1821.8	1703.0	1704.5	1250.6	866.7	604.7
80°	359.5	362.5	517.9	612.3	883.5	1095.2	968.8	787.5	563.6	460.0	361.0
82.5°	208.7	204.1	309.2	345.8	420.4	415.8	344.3	326.0	246.8	230.0	184.3
85°	83.8	77.7	135.6	126.4	128.0	135.6	100.5	100.5	80.7	62.5	45.7
87.5°	16.8	16.8	18.3	16.8	16.8	18.3	13.7	13.7	12.2	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P800249

CATALOG NUMBER: ARCH2-90-722-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5
2.5°	1657.3	1654.2	1646.6	1626.8	1616.2	1610.1	1600.9	1597.9	1596.4	1597.9	1602.5
5°	1661.9	1651.2	1629.9	1597.9	1576.6	1562.9	1547.6	1541.5	1537.0	1537.0	1541.5
7.5°	1664.9	1648.2	1611.6	1564.4	1533.9	1512.6	1494.3	1486.7	1485.2	1489.7	1491.3
10°	1666.4	1642.1	1590.3	1530.9	1491.3	1463.8	1445.6	1441.0	1445.6	1454.7	1456.2
12.5°	1677.1	1643.6	1578.1	1508.0	1460.8	1433.4	1419.7	1419.7	1431.9	1448.6	1450.1
15°	1695.4	1654.2	1572.0	1489.7	1441.0	1416.6	1412.0	1419.7	1437.9	1463.8	1466.9
17.5°	1709.1	1660.3	1558.3	1465.4	1415.1	1399.9	1407.5	1425.8	1451.7	1486.7	1489.7
20°	1718.2	1660.3	1538.5	1436.4	1389.2	1386.2	1407.5	1436.4	1463.8	1505.0	1509.5
22.5°	1727.4	1657.3	1515.6	1401.4	1360.3	1369.4	1409.0	1445.6	1473.0	1517.2	1524.8
25°	1744.1	1661.9	1492.8	1366.4	1329.8	1355.7	1407.5	1451.7	1480.6	1526.3	1538.5
27.5°	1767.0	1672.5	1476.0	1334.4	1299.3	1334.4	1396.8	1450.1	1480.6	1524.8	1538.5
30°	1791.3	1684.7	1456.2	1299.3	1264.3	1303.9	1374.0	1433.4	1468.4	1509.5	1526.3
32.5°	1817.2	1698.4	1439.5	1261.2	1221.6	1262.8	1340.5	1407.5	1445.6	1483.6	1501.9
35°	1852.3	1722.8	1430.3	1230.8	1183.6	1220.1	1297.8	1374.0	1415.1	1450.1	1471.5
37.5°	1894.9	1753.3	1425.8	1200.3	1142.4	1172.9	1252.1	1332.8	1377.0	1406.0	1425.8
40°	1943.7	1791.3	1424.2	1171.4	1101.3	1124.2	1204.9	1285.6	1328.3	1351.1	1367.9
42.5°	1998.5	1834.0	1421.2	1142.4	1060.2	1078.5	1159.2	1238.4	1275.0	1294.8	1310.0
45°	2056.4	1876.6	1415.1	1107.4	1016.0	1037.3	1112.0	1182.0	1220.1	1236.9	1253.6
47.5°	2114.3	1919.3	1402.9	1067.8	976.4	996.2	1061.7	1122.6	1153.1	1168.3	1185.1
50°	2170.6	1957.4	1374.0	1022.1	935.3	953.6	1003.8	1044.9	1067.8	1080.0	1096.7
52.5°	2220.9	1983.3	1332.8	968.8	894.1	903.3	936.8	971.8	990.1	991.6	1006.9
55°	2263.5	1997.0	1273.4	913.9	850.0	851.5	869.8	897.2	904.8	898.7	909.4
57.5°	2287.9	1989.4	1207.9	857.6	804.3	798.2	811.9	825.6	827.1	811.9	822.6
60°	2294.0	1954.3	1122.6	801.2	758.6	741.8	746.4	743.3	740.3	734.2	743.3
62.5°	2263.5	1879.7	1028.2	746.4	709.8	683.9	682.4	680.9	685.5	687.0	688.5
65°	2152.3	1739.5	915.5	690.0	658.0	623.0	621.5	639.8	645.9	636.7	639.8
67.5°	1937.6	1524.8	792.1	624.5	592.5	562.1	574.3	584.9	595.6	592.5	595.6
70°	1632.9	1252.1	679.4	551.4	521.0	504.2	517.9	527.0	528.6	525.5	528.6
72.5°	1284.1	977.9	574.3	476.8	449.4	441.7	458.5	466.1	479.8	485.9	487.4
75°	927.7	722.0	470.7	396.0	373.2	373.2	388.4	402.1	414.3	406.7	402.1
77.5°	517.9	431.1	338.2	272.7	277.2	298.6	304.6	319.9	332.1	330.5	327.5
80°	313.8	269.6	228.5	176.7	175.2	191.9	231.5	257.4	263.5	249.8	248.3
82.5°	163.0	141.7	121.9	99.0	109.7	128.0	134.0	161.5	178.2	172.1	179.7
85°	41.1	39.6	44.2	45.7	56.4	62.5	68.5	80.7	53.3	25.9	25.9
87.5°	12.2	12.2	15.2	15.2	19.8	24.4	22.8	22.8	12.2	1.5	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)