

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: P1211589

Luminaire Tested: **ARCH4-50-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211589
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: ARCH4-50-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

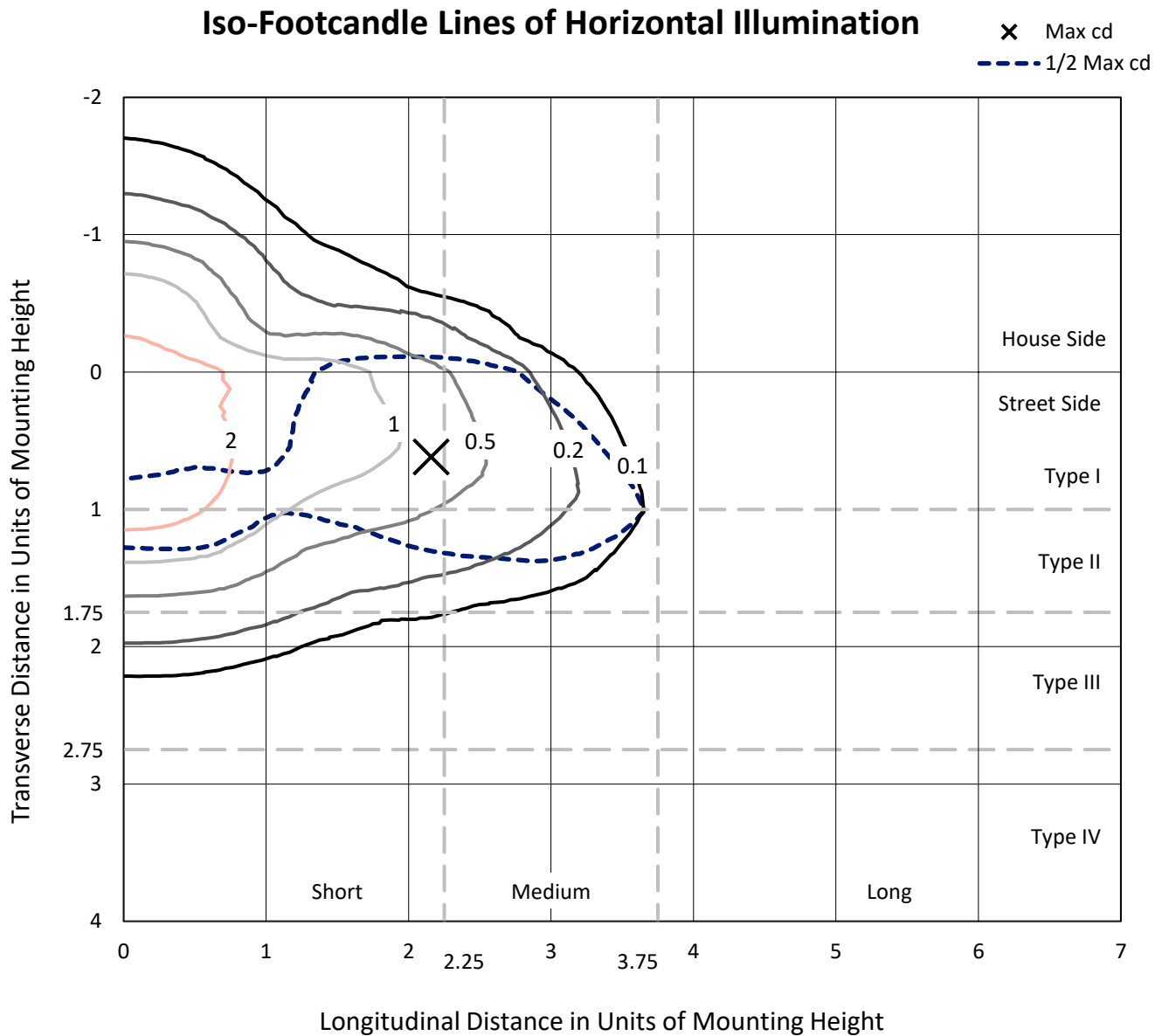
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9504 lumens
Efficiency: N/A
Efficacy: 178.6 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): 53.2
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



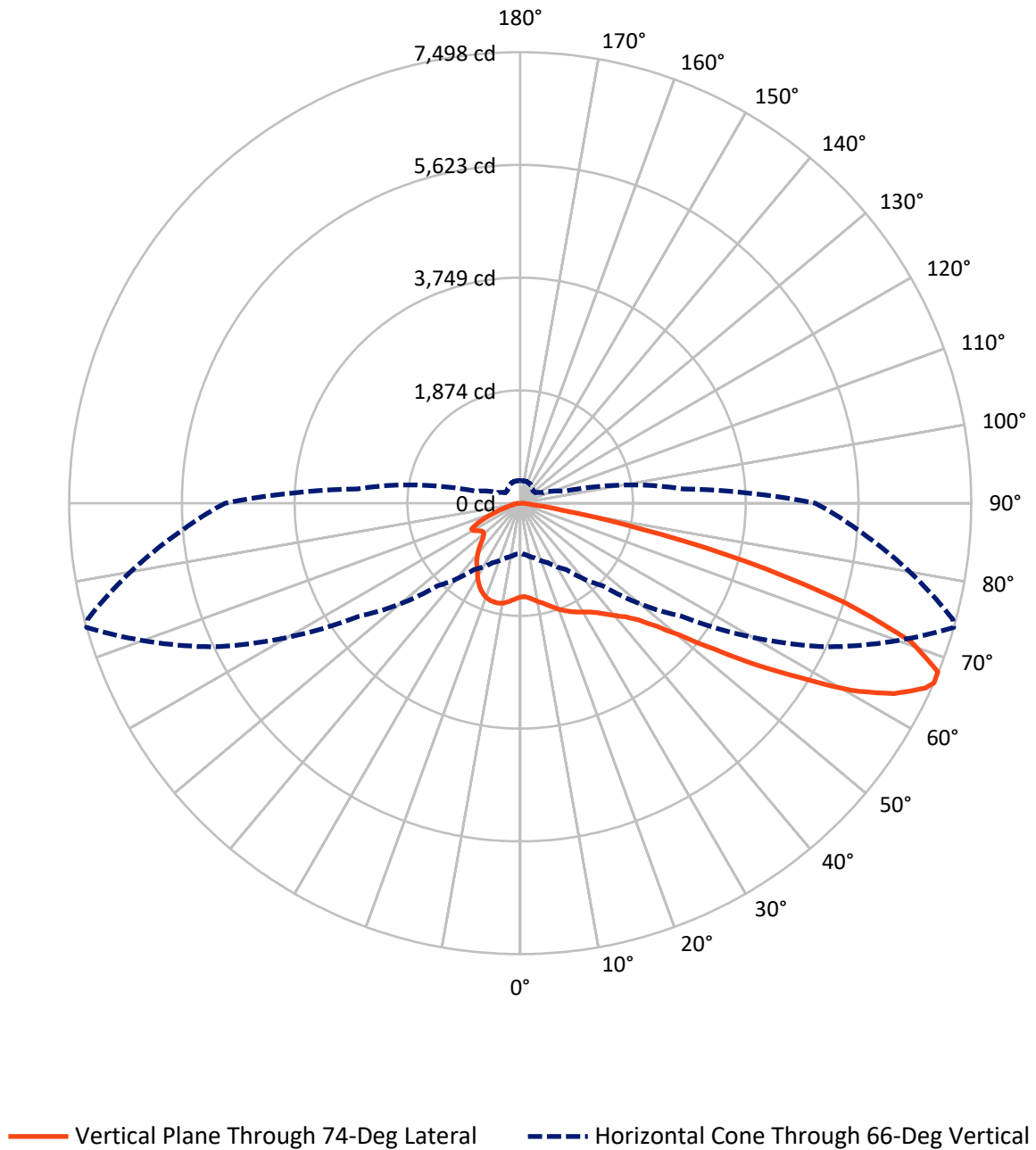
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Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2314.5	0.0	2314.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	7189.5	0.0	7189.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	9504.0	0.0	9504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	1.6
10°-20°	457.0	4.8
20°-30°	857.6	9.0
30°-40°	1319.3	13.9
40°-50°	1774.5	18.7
50°-60°	2098.6	22.1
60°-70°	1941.3	20.4
70°-80°	816.7	8.6
80°-90°	90.4	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°	9504.0	100.0
0°-180°	9504.0	100.0

Coefficient of Utilization



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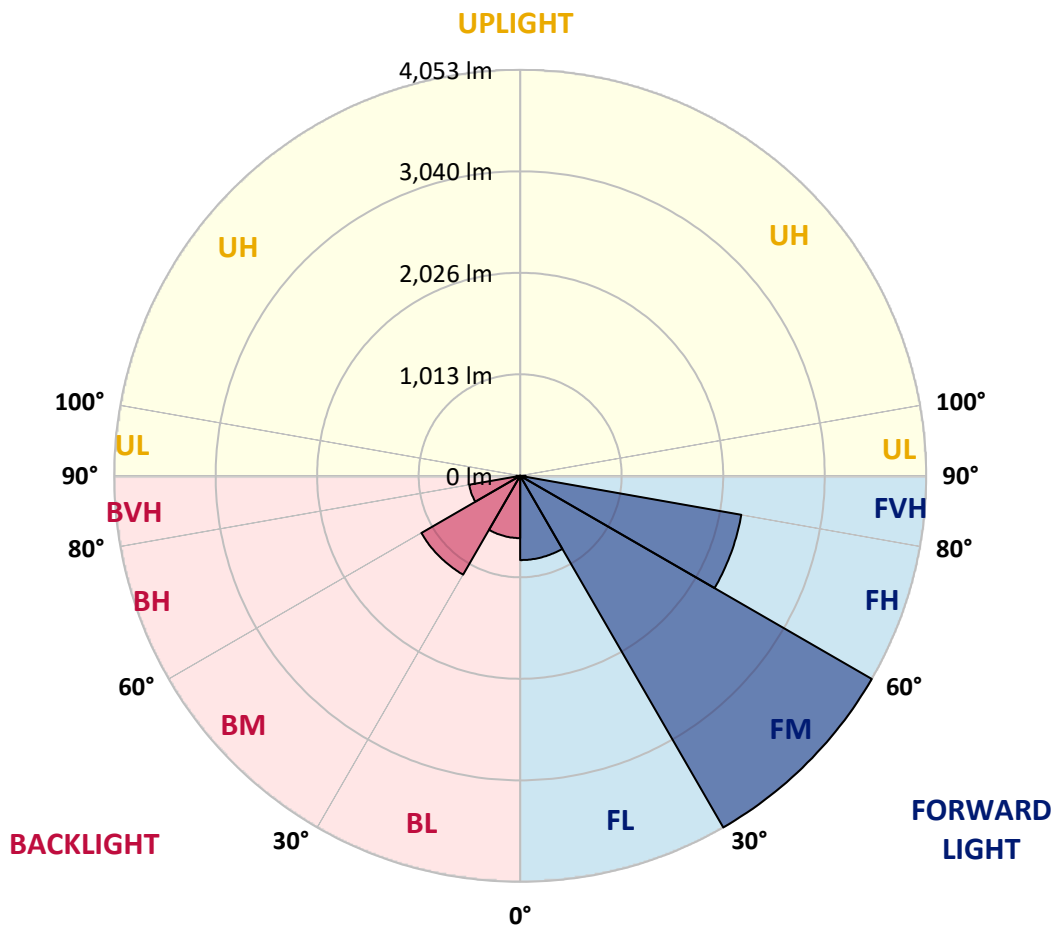
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	841.2	8.9			
FM	(30°-60°)	4052.9	42.6			
FH	(60°-80°)	2241.3	23.6			G2/5000
FVH	(80°-90°)	54.1	0.6			G1/100
BL	(0°-30°)	622.1	6.5	B2/1000		
BM	(30°-60°)	1139.4	12.0	B2/2500		
BH	(60°-80°)	516.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	36.3	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°	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0
2.5°	1553.1	1550.7	1555.6	1562.9	1566.6	1560.5	1558.0	1556.8	1556.8	1553.1	1559.2
5°	1479.8	1478.5	1489.5	1503.0	1528.7	1547.0	1571.5	1586.1	1581.3	1573.9	1578.8
7.5°	1384.4	1381.9	1395.4	1421.1	1456.5	1496.9	1556.8	1603.3	1621.6	1619.2	1617.9
10°	1421.1	1418.6	1417.4	1410.0	1422.3	1461.4	1523.8	1605.7	1668.1	1669.3	1670.5
12.5°	1548.2	1554.4	1548.2	1525.0	1498.1	1483.4	1520.1	1611.8	1707.2	1714.6	1745.1
15°	1721.9	1715.8	1703.6	1676.6	1635.1	1591.0	1564.1	1640.0	1763.5	1769.6	1836.9
17.5°	1874.8	1879.7	1872.3	1846.6	1797.7	1740.2	1658.3	1688.9	1823.4	1840.5	1934.7
20°	2041.1	2060.6	2050.9	2019.1	1978.7	1893.1	1790.4	1759.8	1889.4	1901.7	2036.2
22.5°	2233.1	2253.9	2235.5	2205.0	2171.9	2066.8	1934.7	1846.6	1944.5	1970.2	2134.0
25°	2463.0	2482.6	2465.4	2417.7	2376.2	2247.8	2090.0	1944.5	1998.3	2026.4	2213.5
27.5°	2645.2	2659.9	2675.8	2647.7	2584.1	2450.8	2251.4	2046.0	2052.1	2081.4	2286.9
30°	2807.9	2844.6	2858.0	2861.7	2807.9	2658.7	2416.5	2151.1	2098.6	2129.1	2360.3
32.5°	3030.4	3085.5	3063.5	3085.5	3053.7	2854.3	2587.7	2260.0	2158.5	2186.6	2430.0
35°	3355.7	3399.8	3342.3	3325.2	3273.8	3052.5	2752.8	2372.5	2238.0	2268.5	2496.0
37.5°	3705.5	3755.6	3672.5	3604.0	3506.2	3248.1	2894.7	2520.5	2348.0	2372.5	2557.2
40°	4011.2	4052.8	3980.7	3890.2	3726.3	3420.6	3017.0	2624.4	2458.1	2488.7	2628.1
42.5°	4293.7	4320.6	4239.9	4153.1	3934.2	3575.9	3149.1	2734.5	2586.5	2615.9	2685.6
45°	4579.9	4600.7	4488.2	4364.7	4107.8	3717.7	3294.6	2888.6	2774.8	2814.0	2778.5
47.5°	4631.3	4637.4	4617.8	4534.6	4244.8	3853.5	3474.4	3095.3	3062.2	3105.0	2938.7
50°	4275.4	4330.4	4451.5	4533.4	4299.8	3967.2	3654.1	3391.2	3458.5	3513.5	3271.4
52.5°	3584.4	3637.0	3917.1	4227.7	4167.8	3992.9	3847.4	3766.6	4017.3	4083.4	3723.8
55°	2855.6	2902.0	3198.0	3645.6	3741.0	3875.5	4054.0	4246.0	4730.3	4774.3	4220.4
57.5°	2351.7	2377.4	2589.0	3019.4	3172.3	3500.0	4165.3	4815.9	5455.5	5522.8	4652.1
60°	1928.6	1956.7	2114.5	2469.1	2672.1	2963.2	4077.3	5378.5	6321.4	6321.4	5206.0
62.5°	1451.6	1476.1	1622.8	1900.4	2241.6	2508.2	3796.0	5751.5	6974.4	6945.1	5607.2
65°	996.7	1016.3	1122.7	1307.3	1614.3	2137.7	3412.0	5756.4	7407.3	7368.2	5778.4
66°	836.5	853.6	944.1	1093.3	1351.3	1939.6	3276.2	5652.4	7497.8	7442.8	5706.2
67.5°	660.4	672.6	732.5	820.6	990.6	1570.3	3062.2	5357.7	7489.3	7456.2	5522.8
70°	472.1	480.6	524.6	543.0	585.8	908.6	2432.4	4692.4	6888.8	6898.6	4801.3
72.5°	365.7	379.1	406.0	409.7	399.9	483.1	1476.1	3914.6	5635.3	5631.6	3563.6
75°	294.7	302.1	315.5	322.9	320.4	311.8	624.9	2920.4	3879.2	3924.4	1995.8
77.5°	232.4	231.1	243.4	253.1	260.5	244.6	286.2	1712.1	2033.7	1976.3	749.7
80°	171.2	171.2	188.3	192.0	203.0	205.5	190.8	660.4	698.3	634.7	194.4
82.5°	112.5	112.5	130.9	133.3	144.3	160.2	138.2	198.1	193.2	183.4	88.1
85°	61.1	58.7	64.8	73.4	79.5	94.2	83.2	99.1	101.5	100.3	58.7
87.5°	12.2	11.0	17.1	19.6	22.0	29.4	26.9	40.4	56.3	55.0	25.7
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°	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0	1558.0
2.5°	1567.8	1566.6	1580.0	1595.9	1614.3	1625.3	1630.2	1638.7	1632.6	1635.1	1642.4
5°	1591.0	1594.7	1614.3	1635.1	1643.6	1637.5	1624.1	1619.2	1608.2	1605.7	1603.3
7.5°	1625.3	1631.4	1651.0	1655.9	1630.2	1587.4	1556.8	1539.7	1521.3	1516.4	1514.0
10°	1681.5	1685.2	1690.1	1640.0	1576.4	1518.9	1481.0	1465.1	1452.8	1443.1	1445.5
12.5°	1752.5	1750.0	1712.1	1608.2	1517.7	1459.0	1433.3	1423.5	1414.9	1408.8	1407.6
15°	1841.7	1824.6	1715.8	1564.1	1462.6	1413.7	1395.4	1391.7	1381.9	1381.9	1380.7
17.5°	1932.2	1888.2	1713.3	1517.7	1410.0	1383.1	1372.1	1369.7	1367.2	1366.0	1369.7
20°	2022.7	1944.5	1693.8	1460.2	1373.4	1357.5	1355.0	1356.2	1353.8	1357.5	1355.0
22.5°	2102.2	1981.2	1657.1	1399.0	1347.7	1346.5	1340.3	1342.8	1351.3	1352.6	1356.2
25°	2163.4	1994.6	1603.3	1342.8	1329.3	1326.9	1334.2	1344.0	1351.3	1352.6	1358.7
27.5°	2213.5	1987.3	1536.0	1298.8	1297.5	1311.0	1333.0	1336.7	1337.9	1337.9	1333.0
30°	2251.4	1971.4	1450.4	1249.8	1256.0	1289.0	1309.8	1309.8	1300.0	1297.5	1304.9
32.5°	2260.0	1950.6	1357.5	1199.7	1209.5	1248.6	1274.3	1265.7	1254.7	1254.7	1259.6
35°	2267.3	1922.5	1282.9	1131.2	1145.9	1192.4	1216.8	1199.7	1187.5	1183.8	1182.6
37.5°	2264.9	1911.5	1215.6	1044.4	1064.0	1109.2	1125.1	1109.2	1090.9	1082.3	1093.3
40°	2267.3	1904.1	1131.2	949.0	968.6	995.5	1016.3	1004.0	986.9	964.9	975.9
42.5°	2282.0	1913.9	1038.3	856.1	856.1	870.7	906.2	897.6	856.1	847.5	857.3
45°	2360.3	1966.5	945.3	763.1	749.7	759.4	796.1	759.4	733.8	733.8	742.3
47.5°	2549.8	2064.3	863.4	681.2	649.4	668.9	678.7	644.5	624.9	620.0	628.6
50°	2936.3	2260.0	814.5	613.9	574.8	589.5	583.3	582.1	562.6	565.0	569.9
52.5°	3523.3	2641.5	799.8	580.9	532.0	535.6	529.5	532.0	528.3	540.5	544.2
55°	4162.9	3043.9	818.1	585.8	502.6	476.9	479.4	491.6	506.3	525.9	529.5
57.5°	4641.0	3245.7	865.8	618.8	465.9	426.8	432.9	456.2	484.3	500.2	508.7
60°	4996.9	3221.2	935.5	627.4	421.9	381.6	392.6	426.8	451.3	464.7	473.3
62.5°	5113.1	3068.3	952.7	565.0	364.4	338.8	365.7	401.1	412.1	426.8	432.9
65°	5017.7	2851.9	827.9	458.6	320.4	307.0	346.1	373.0	387.7	395.0	396.2
66°	4905.2	2722.3	760.7	417.0	304.5	297.2	338.8	360.8	375.4	374.2	375.4
67.5°	4658.2	2450.8	651.8	358.3	281.3	282.5	326.5	341.2	346.1	342.4	342.4
70°	3818.0	1725.6	467.2	271.5	247.0	264.2	293.5	297.2	308.2	303.3	303.3
72.5°	2354.2	847.5	313.1	207.9	220.1	247.0	245.8	258.0	283.7	291.1	296.0
75°	1156.9	343.6	206.7	176.1	196.9	206.7	204.2	234.8	271.5	303.3	314.3
77.5°	439.0	171.2	144.3	154.1	159.0	155.3	162.7	212.8	271.5	329.0	340.0
80°	135.7	118.6	113.7	127.2	119.8	113.7	122.3	176.1	229.9	249.5	249.5
82.5°	81.9	92.9	88.1	86.8	80.7	81.9	88.1	126.0	177.3	185.9	185.9
85°	57.5	61.1	50.1	47.7	46.5	45.2	45.2	73.4	105.2	103.9	107.6
87.5°	22.0	24.5	18.3	18.3	17.1	12.2	9.8	12.2	12.2	8.6	6.1
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)