

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: P836739

Luminaire Tested: **ARCH3-70-722-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10430 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.1
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



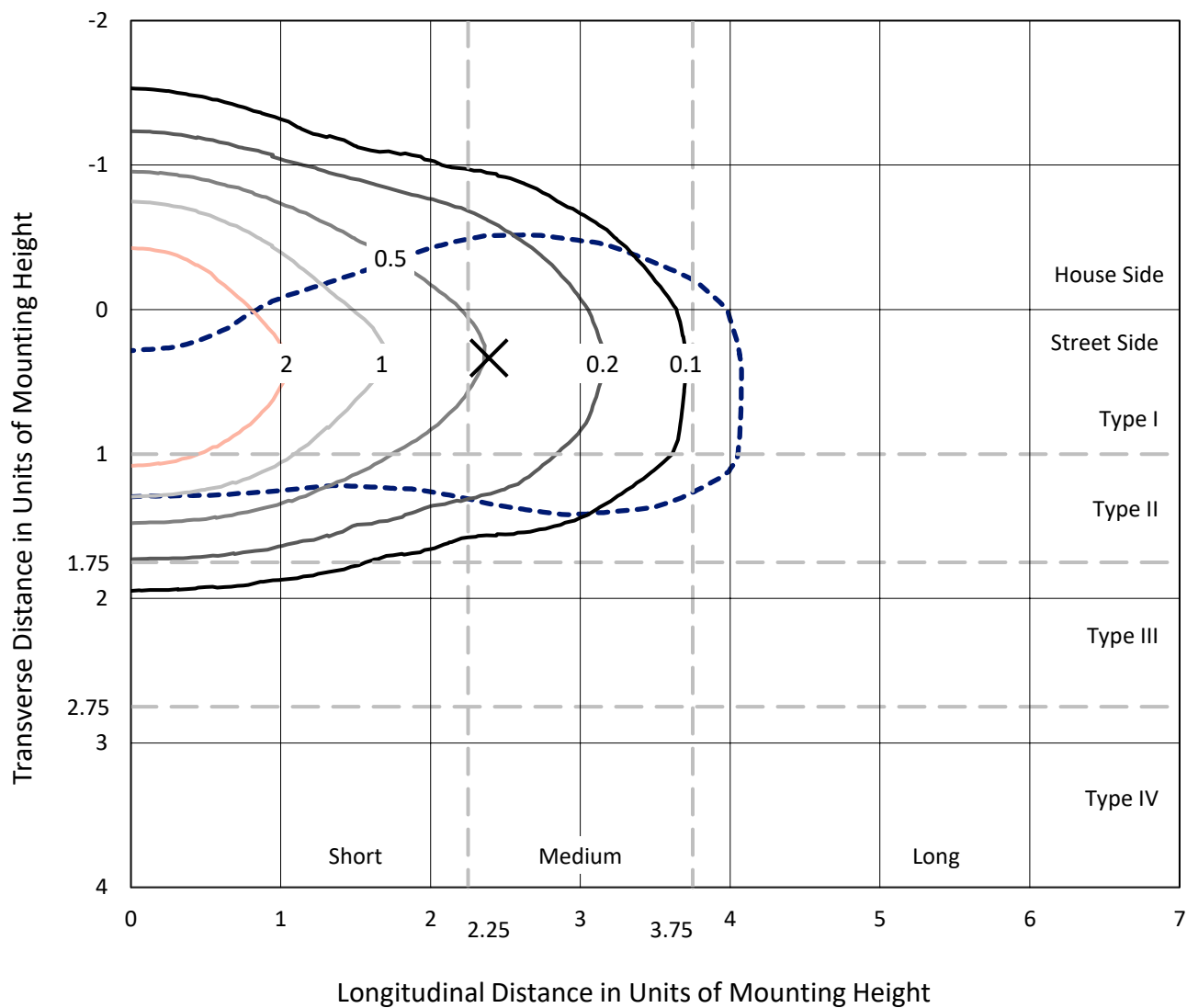
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Iso-Footcandle Lines of Horizontal Illumination

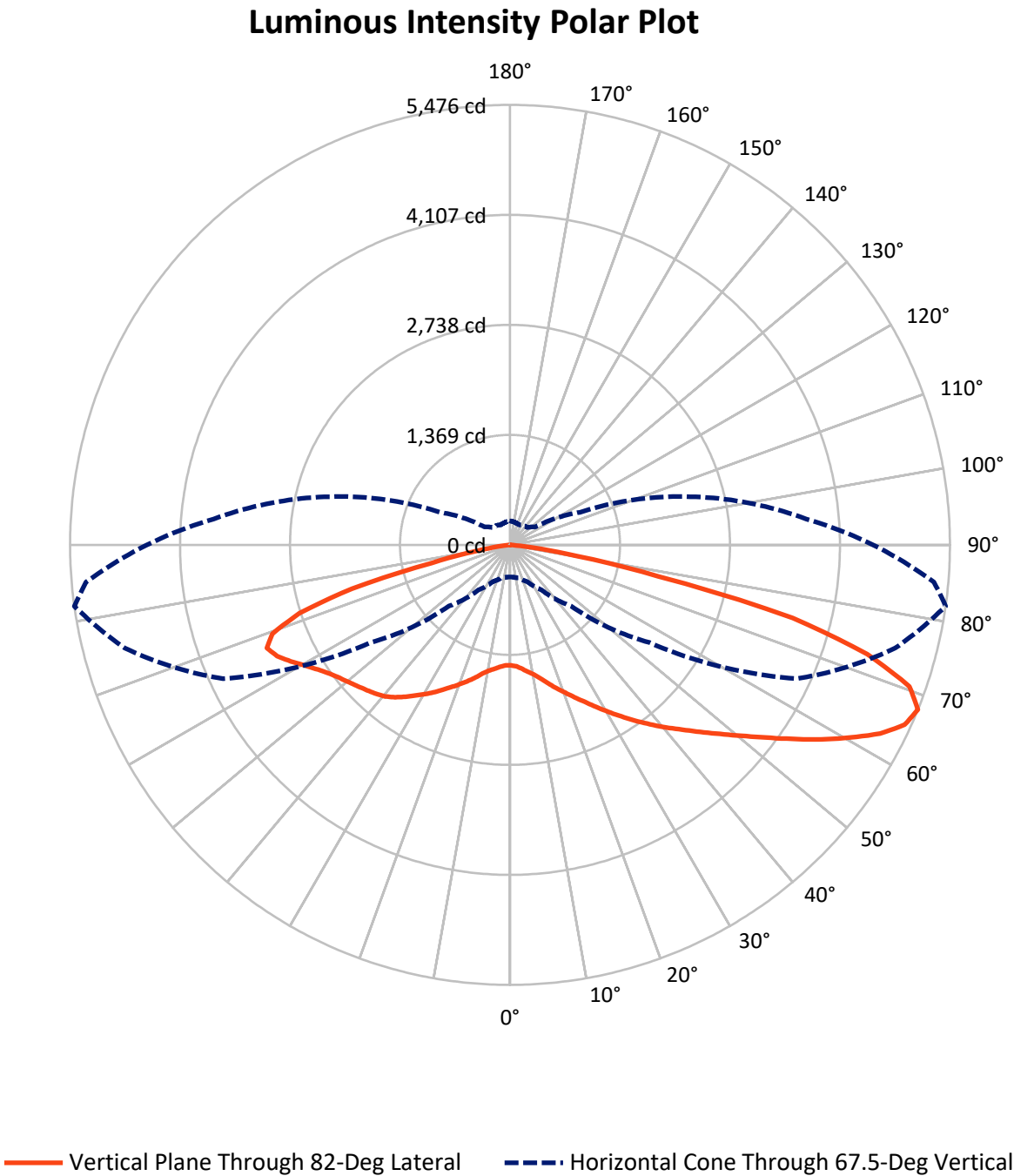
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type II - Medium - N/A

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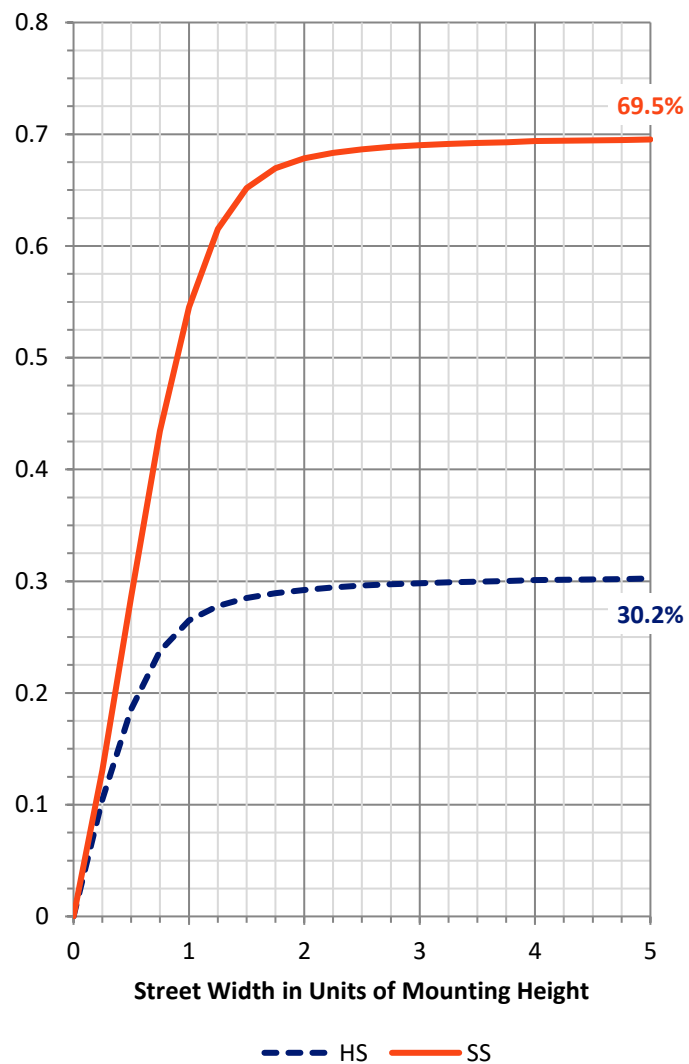
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3176.3	0.0	3176.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7253.6	0.0	7253.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	10430.0	0.0	10430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	1.5
10°-20°	558.1	5.4
20°-30°	1121.7	10.8
30°-40°	1762.0	16.9
40°-50°	2146.5	20.6
50°-60°	2028.2	19.4
60°-70°	1674.8	16.1
70°-80°	912.0	8.7
80°-90°	71.7	0.7
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°	10430.0	100.0
0°-180°	10430.0	100.0

Coefficient of Utilization



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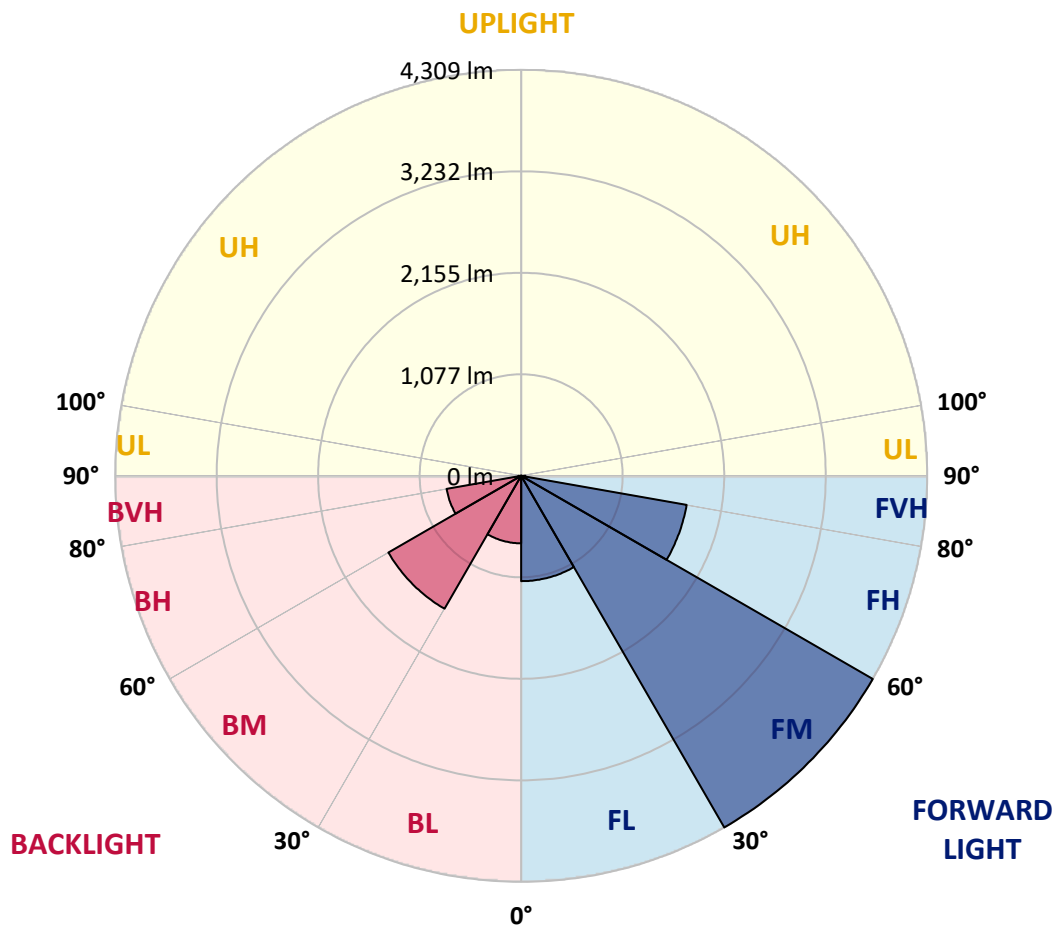
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1118.5	10.7			
FM	(30°-60°)	4309.1	41.3			
FH	(60°-80°)	1782.9	17.1			G1/1800
FVH	(80°-90°)	43.2	0.4			G1/100
BL	(0°-30°)	716.3	6.9	B2/1000		
BM	(30°-60°)	1627.6	15.6	B2/2500		
BH	(60°-80°)	803.9	7.7	B2/1000		G2/1000
BVH	(80°-90°)	28.5	0.3			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°	82°	85°
0°	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3
2.5°	1567.5	1567.5	1579.6	1579.6	1569.0	1552.3	1547.8	1529.6	1512.9	1512.9	1514.5
5°	1717.4	1715.9	1725.0	1712.8	1687.1	1653.8	1631.1	1591.7	1558.4	1547.8	1546.3
7.5°	1900.6	1899.1	1903.7	1884.0	1835.5	1781.0	1735.6	1672.0	1617.4	1594.7	1588.7
10°	2105.1	2103.6	2099.0	2065.7	2000.6	1915.8	1847.6	1759.8	1678.0	1641.7	1634.1
12.5°	2339.8	2336.8	2326.2	2277.7	2188.4	2079.3	1980.9	1867.3	1758.3	1708.3	1691.6
15°	2601.8	2597.3	2577.6	2518.5	2398.9	2261.1	2133.9	1988.5	1855.2	1790.1	1767.4
17.5°	2877.5	2877.5	2847.2	2759.3	2626.1	2454.9	2297.4	2112.7	1956.7	1876.4	1849.1
20°	3157.6	3156.1	3118.3	3012.2	2854.7	2657.9	2458.0	2255.0	2061.2	1964.2	1930.9
22.5°	3452.9	3449.9	3403.0	3281.8	3094.0	2871.4	2638.2	2395.9	2176.3	2059.7	2017.2
25°	3792.2	3787.6	3730.1	3581.7	3359.1	3107.7	2841.1	2560.9	2308.0	2165.7	2115.7
27.5°	4152.6	4146.6	4078.4	3905.8	3661.9	3359.1	3065.3	2751.8	2453.4	2283.8	2227.8
30°	4473.7	4469.1	4394.9	4217.7	3937.6	3608.9	3278.8	2942.6	2606.4	2409.5	2339.8
32.5°	4716.0	4716.0	4649.4	4475.2	4184.4	3848.2	3493.8	3122.8	2765.4	2544.3	2462.5
35°	4862.9	4867.4	4809.9	4670.6	4396.5	4073.9	3716.5	3334.8	2935.0	2688.2	2600.3
37.5°	4884.1	4899.3	4865.9	4772.0	4543.4	4261.7	3934.5	3539.3	3110.7	2833.5	2735.1
40°	4785.7	4796.3	4797.8	4761.4	4603.9	4396.5	4126.9	3755.8	3297.0	2986.5	2872.9
42.5°	4588.8	4596.4	4610.0	4620.6	4560.0	4455.5	4273.8	3957.3	3495.4	3142.5	3009.2
45°	4334.4	4332.8	4355.6	4401.0	4398.0	4422.2	4355.6	4140.5	3701.3	3319.7	3160.7
47.5°	3954.2	3946.7	4026.9	4129.9	4181.4	4295.0	4357.1	4284.4	3925.5	3515.0	3333.3
50°	3359.1	3351.5	3527.2	3769.5	3920.9	4093.6	4273.8	4370.7	4160.2	3734.6	3521.1
52.5°	2635.1	2627.6	2850.2	3274.2	3604.4	3855.8	4105.7	4390.4	4382.8	3980.0	3733.1
55°	1959.7	1953.6	2170.2	2629.1	3163.7	3580.2	3899.7	4338.9	4591.8	4261.7	3990.6
57.5°	1381.2	1378.2	1565.9	1946.1	2597.3	3244.0	3701.3	4239.0	4784.2	4567.6	4281.4
60°	969.2	964.7	1101.0	1394.8	1964.2	2736.6	3504.4	4105.7	4928.0	4869.0	4590.3
62.5°	652.7	649.7	746.6	992.0	1394.8	2106.6	3206.1	4016.3	5009.8	5171.9	4902.3
65°	495.2	493.7	537.6	672.4	987.4	1512.9	2732.1	4005.7	5020.4	5399.0	5167.3
67.5°	399.8	401.3	425.6	502.8	683.0	1075.3	2118.7	3939.1	4964.4	5476.3	5296.0
70°	327.1	327.1	337.7	389.2	504.3	725.4	1479.6	3636.2	4808.4	5274.8	5143.1
72.5°	249.9	251.4	284.7	315.0	380.1	508.9	948.0	3009.2	4440.4	4650.9	4550.9
75°	198.4	196.9	216.6	259.0	295.3	363.5	581.5	2158.1	3778.6	3634.7	3571.1
77.5°	142.4	140.8	156.0	192.3	224.1	257.5	346.8	1088.9	2055.1	1888.5	1841.6
80°	96.9	93.9	107.5	133.3	148.4	151.4	169.6	418.0	896.6	845.1	834.5
82.5°	50.0	50.0	57.5	75.7	77.2	78.8	75.7	134.8	296.8	277.1	265.0
85°	19.7	19.7	21.2	25.7	25.7	27.3	27.3	34.8	31.8	30.3	28.8
87.5°	1.5	1.5	3.0	3.0	4.5	4.5	4.5	6.1	7.6	7.6	7.6
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°	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3
2.5°	1511.4	1505.4	1485.7	1481.1	1478.1	1473.6	1475.1	1464.5	1459.9	1461.4	1455.4
5°	1538.7	1528.1	1503.9	1493.2	1490.2	1485.7	1490.2	1482.6	1475.1	1478.1	1475.1
7.5°	1576.5	1561.4	1531.1	1520.5	1519.0	1514.5	1520.5	1514.5	1508.4	1511.4	1505.4
10°	1615.9	1596.2	1562.9	1552.3	1552.3	1550.8	1556.9	1547.8	1541.7	1543.2	1540.2
12.5°	1673.5	1647.7	1611.4	1602.3	1597.7	1602.3	1603.8	1591.7	1581.1	1582.6	1578.1
15°	1743.1	1714.4	1675.0	1661.4	1658.3	1656.8	1650.8	1635.6	1622.0	1620.5	1615.9
17.5°	1818.9	1782.5	1735.6	1721.9	1708.3	1703.8	1688.6	1668.9	1647.7	1647.7	1641.7
20°	1891.6	1850.7	1794.6	1774.9	1755.2	1737.1	1711.3	1679.5	1652.3	1647.7	1641.7
22.5°	1970.3	1921.8	1856.7	1827.9	1793.1	1756.8	1712.8	1670.4	1635.6	1628.0	1623.5
25°	2058.1	1997.6	1920.3	1877.9	1821.9	1765.9	1700.7	1646.2	1605.3	1593.2	1590.2
27.5°	2155.1	2082.4	1988.5	1926.4	1844.6	1756.8	1673.5	1608.3	1558.4	1543.2	1538.7
30°	2253.5	2167.2	2050.6	1959.7	1844.6	1728.0	1623.5	1547.8	1490.2	1469.0	1466.0
32.5°	2351.9	2255.0	2106.6	1977.9	1826.4	1679.5	1558.4	1469.0	1403.9	1378.2	1384.2
35°	2470.1	2351.9	2158.1	1985.4	1796.1	1620.5	1484.2	1379.7	1313.0	1290.3	1294.9
37.5°	2592.7	2448.9	2199.0	1979.4	1753.7	1553.8	1400.9	1299.4	1216.1	1176.7	1181.3
40°	2698.8	2536.7	2227.8	1958.2	1699.2	1478.1	1319.1	1185.8	1070.7	1032.9	1028.3
42.5°	2798.7	2601.8	2242.9	1926.4	1637.1	1390.3	1202.5	1031.3	916.2	869.3	870.8
45°	2903.2	2665.4	2236.8	1884.0	1559.9	1287.3	1052.5	879.9	778.4	736.0	737.5
47.5°	3022.8	2733.6	2230.8	1838.5	1466.0	1154.0	908.7	746.6	658.8	628.5	625.5
50°	3150.1	2809.3	2223.2	1782.5	1361.5	1005.6	766.3	622.4	548.2	528.5	524.0
52.5°	3293.9	2891.1	2218.7	1715.9	1235.8	848.1	639.1	513.4	463.4	449.8	448.3
55°	3466.6	2986.5	2224.7	1635.6	1084.3	699.7	531.6	442.2	408.9	401.3	399.8
57.5°	3677.1	3109.2	2242.9	1541.7	925.3	570.9	452.8	398.3	377.1	371.0	371.0
60°	3905.8	3248.5	2276.2	1435.7	766.3	471.0	401.3	363.5	354.4	362.0	362.0
62.5°	4152.6	3412.1	2335.3	1307.0	617.9	398.3	360.4	334.7	328.6	343.8	345.3
65°	4381.3	3571.1	2373.1	1152.5	490.7	345.3	328.6	305.9	308.9	324.1	322.6
67.5°	4522.2	3702.8	2320.1	958.6	389.2	305.9	295.3	275.6	283.2	295.3	296.8
70°	4435.8	3628.6	2058.1	723.9	304.4	266.5	259.0	246.9	252.9	268.1	274.1
72.5°	4013.3	3250.0	1600.8	489.2	245.3	224.1	227.2	221.1	228.7	242.3	255.9
75°	3257.6	2456.4	1073.7	313.5	193.8	190.8	195.4	190.8	193.8	207.5	215.1
77.5°	1700.7	1197.9	534.6	195.4	143.9	148.4	156.0	157.5	166.6	169.6	172.6
80°	793.6	539.1	222.6	109.0	95.4	104.5	119.6	121.2	124.2	128.7	130.2
82.5°	259.0	162.0	103.0	59.1	54.5	59.1	77.2	92.4	93.9	103.0	103.0
85°	27.3	16.7	22.7	24.2	21.2	25.7	34.8	33.3	15.1	9.1	9.1
87.5°	7.6	6.1	7.6	7.6	6.1	6.1	4.5	1.5	0.0	0.0	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)