

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: P842556

Luminaire Tested: **ARCH4-60-740-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11364 lumens
Efficiency: N/A
Efficacy: 180.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

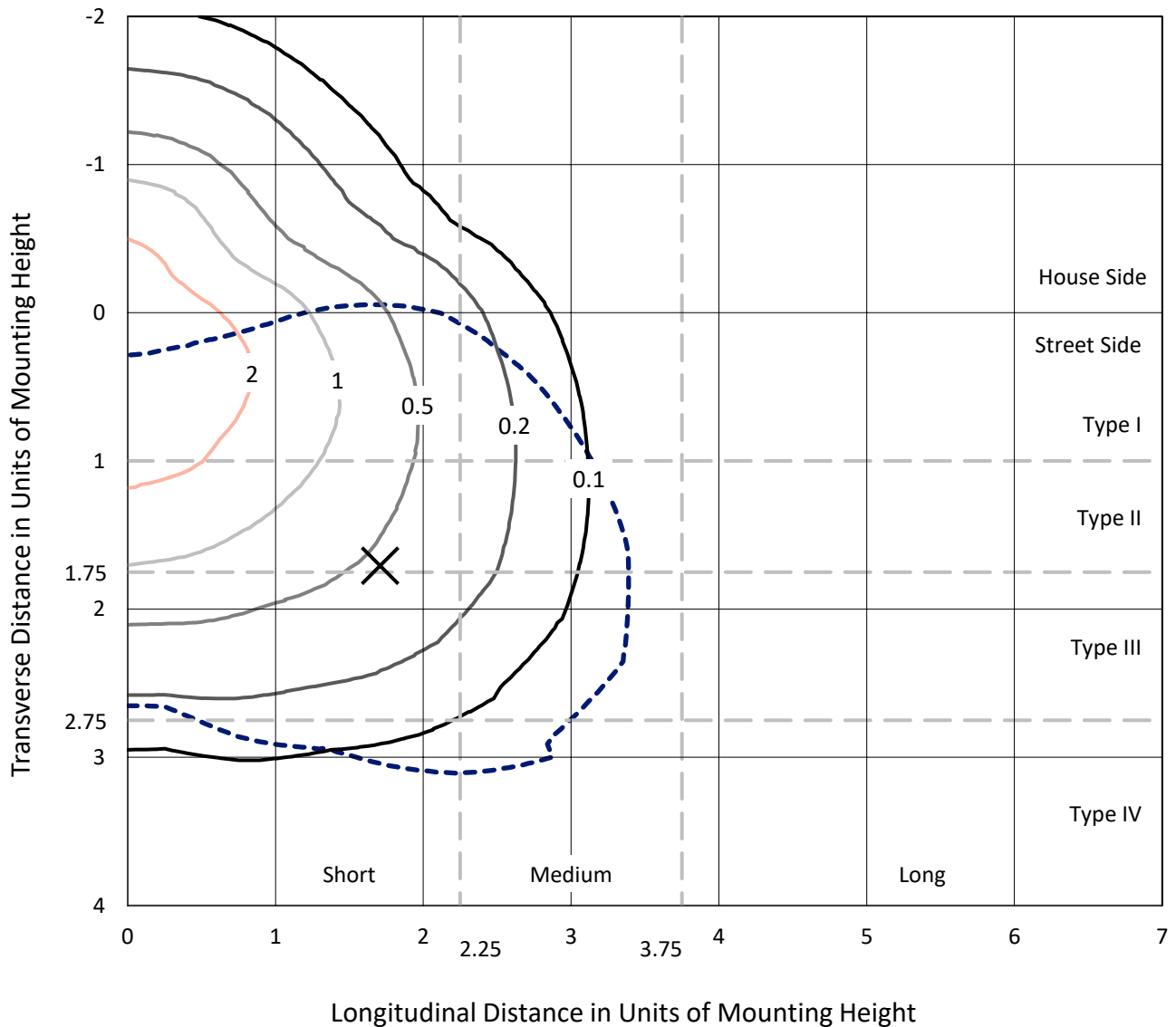
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P842556
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Iso-Footcandle Lines of Horizontal Illumination

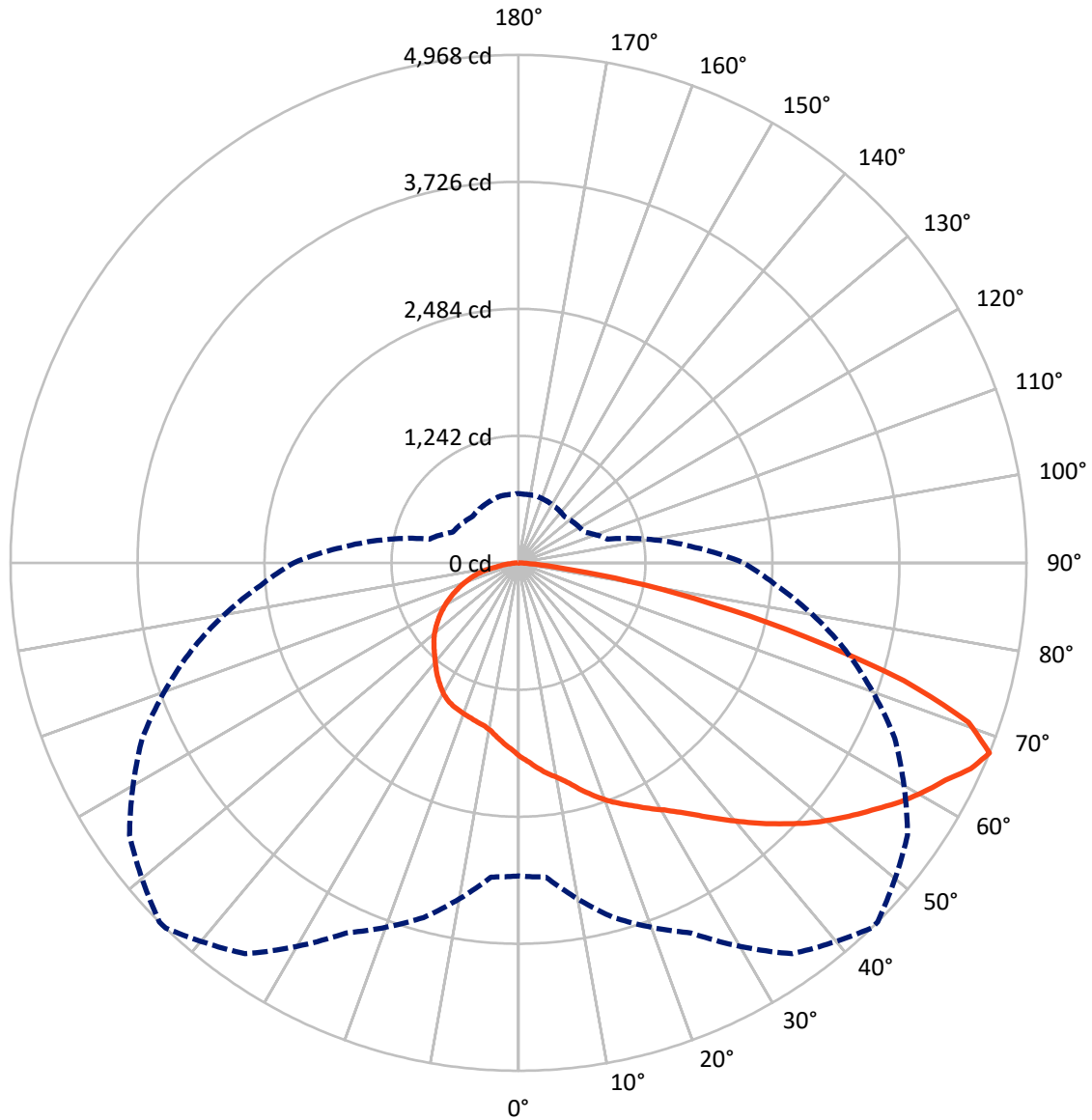
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P842556
CATALOG NUMBER: ARCH4-60-740-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: ARCH4-60-740-U-T4W

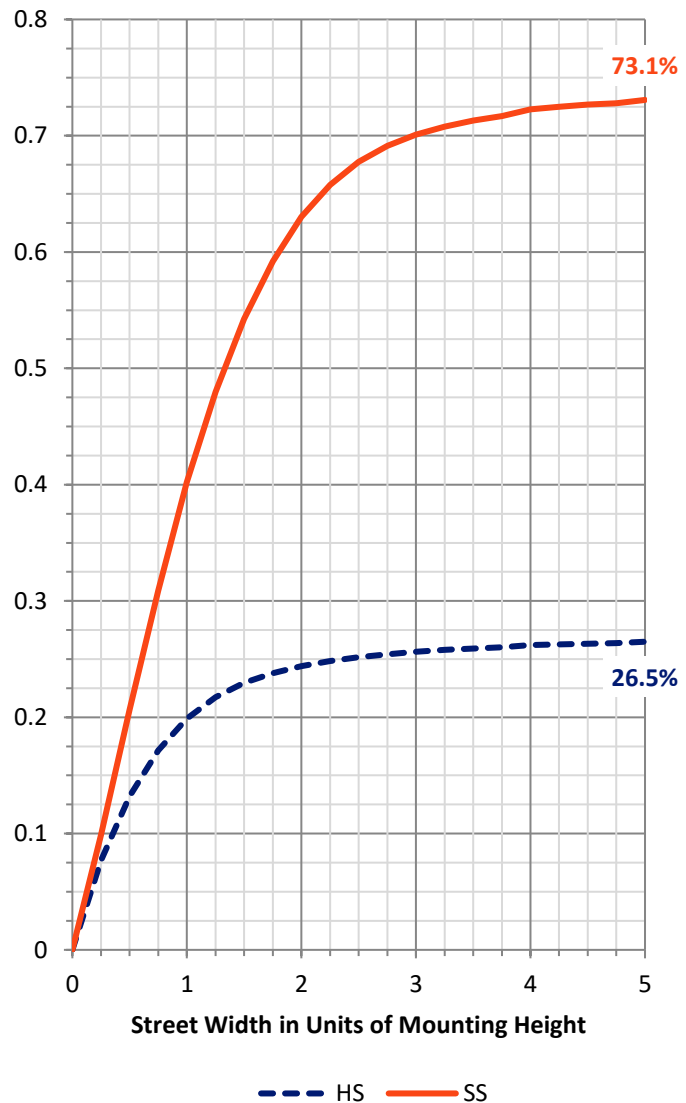
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3035.9	0.0	3035.9
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	8328.1	0.0	8328.1
	% Fixture	73.3	0.0	73.3
Total	Lumens	11364.0	0.0	11364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	1.6
10°-20°	560.6	4.9
20°-30°	967.6	8.5
30°-40°	1426.9	12.6
40°-50°	1933.1	17.0
50°-60°	2362.8	20.8
60°-70°	2436.9	21.4
70°-80°	1334.7	11.7
80°-90°	160.0	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°	11364.0	100.0
0°-180°	11364.0	100.0

Coefficient of Utilization



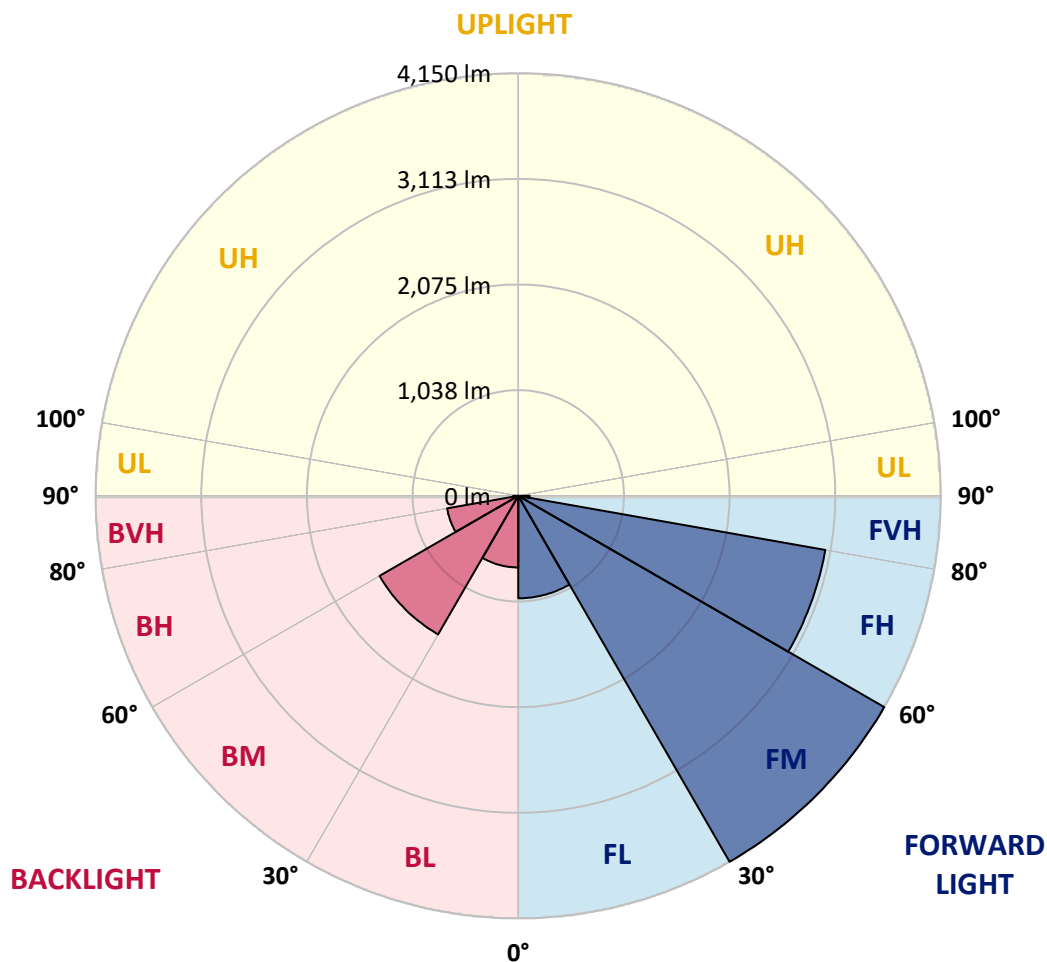
REPORT NUMBER: P842556
 CATALOG NUMBER: ARCH4-60-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1006.0	8.9			
FM (30°-60°)	4150.2	36.5			
FH (60°-80°)	3061.6	26.9			G2/5000
FVH (80°-90°)	110.2	1.0			G2/225
BL (0°-30°)	703.6	6.2	B2/1000		
BM (30°-60°)	1572.6	13.8	B2/2500		
BH (60°-80°)	710.0	6.2	B2/1000		G2/1000
BVH (80°-90°)	49.8	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: P842556
 CATALOG NUMBER: ARCH4-60-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1895.3	1895.3	1895.3	1895.3	1895.3	1895.3	1895.3	1895.3	1895.3	1895.3	1895.3
2.5°	1978.3	1976.6	1980.0	1967.9	1952.4	1950.6	1950.6	1940.3	1928.2	1903.9	1884.9
5°	2071.7	2068.2	2070.0	2052.7	2031.9	2021.5	2019.8	1997.3	1969.7	1931.6	1897.0
7.5°	2158.2	2154.7	2153.0	2133.9	2102.8	2085.5	2083.8	2050.9	2018.1	1959.3	1909.1
10°	2239.4	2236.0	2232.5	2206.6	2168.5	2142.6	2139.1	2097.6	2056.1	1983.5	1919.5
12.5°	2343.2	2336.3	2332.8	2301.7	2246.3	2218.7	2213.5	2158.2	2106.3	2018.1	1940.3
15°	2452.1	2446.9	2441.8	2412.4	2350.1	2313.8	2305.1	2236.0	2165.1	2063.0	1971.4
17.5°	2533.4	2528.2	2528.2	2502.3	2445.2	2403.7	2396.8	2313.8	2225.6	2104.5	1995.6
20°	2583.6	2578.4	2583.6	2568.0	2524.8	2490.2	2483.3	2391.6	2286.1	2142.6	2016.3
22.5°	2619.9	2614.7	2623.3	2616.4	2585.3	2564.5	2559.3	2469.4	2348.4	2182.4	2037.1
25°	2683.9	2683.9	2683.9	2671.7	2642.4	2635.4	2635.4	2557.6	2427.9	2234.2	2068.2
27.5°	2811.8	2804.9	2796.3	2761.7	2711.5	2709.8	2720.2	2647.5	2519.6	2301.7	2106.3
30°	3000.3	2996.9	2964.0	2891.4	2806.6	2798.0	2804.9	2744.4	2618.1	2372.6	2149.5
32.5°	3244.1	3232.0	3164.6	3055.7	2934.6	2894.8	2908.7	2844.7	2721.9	2445.2	2191.0
35°	3417.1	3420.5	3372.1	3273.5	3130.0	3024.5	3034.9	2957.1	2834.3	2526.5	2242.9
37.5°	3615.9	3628.0	3555.4	3481.1	3347.9	3168.1	3178.4	3072.9	2946.7	2628.5	2298.2
40°	3890.9	3866.7	3743.9	3655.7	3508.7	3318.5	3327.2	3202.6	3076.4	2725.4	2362.2
42.5°	4120.9	4077.7	3928.9	3816.5	3640.2	3477.6	3486.2	3342.7	3207.8	2832.6	2433.1
45°	4451.2	4331.9	4117.4	4062.1	3775.0	3633.2	3641.9	3491.4	3346.2	2946.7	2509.2
47.5°	4643.1	4452.9	4316.3	4286.9	3923.8	3794.1	3804.4	3648.8	3494.9	3076.4	2588.7
50°	4631.0	4508.3	4468.5	4395.9	4055.2	3944.5	3954.9	3811.4	3645.3	3204.4	2664.8
52.5°	4551.5	4574.0	4553.2	4432.2	4186.6	4089.8	4101.9	3972.2	3799.2	3323.7	2735.7
55°	4674.3	4689.8	4650.1	4491.0	4331.9	4235.0	4248.9	4141.6	3951.4	3429.2	2796.3
57.5°	4821.3	4765.9	4726.1	4594.7	4482.3	4392.4	4408.0	4314.6	4082.8	3513.9	2842.9
60°	4814.3	4698.5	4738.2	4601.6	4584.3	4537.7	4551.5	4456.4	4183.1	3576.2	2862.0
62.5°	4459.8	4397.6	4598.2	4551.5	4667.3	4667.3	4684.6	4542.8	4243.7	3602.1	2851.6
65°	3844.2	3847.7	4200.4	4394.1	4765.9	4845.5	4859.3	4596.4	4209.1	3526.0	2754.8
67.5°	3062.6	3085.0	3591.7	3994.7	4667.3	4966.5	4968.2	4644.9	4060.4	3311.6	2529.9
70°	2241.2	2258.5	2856.8	3346.2	4202.2	4698.5	4670.8	4508.3	3737.0	2938.1	2178.9
72.5°	1514.9	1530.4	2146.0	2569.7	3448.2	4001.6	3941.0	3984.3	3185.3	2414.1	1751.8
75°	1018.6	1037.6	1527.0	1838.2	2536.9	3038.4	2903.5	3017.6	2464.2	1827.9	1277.9
77.5°	641.6	653.7	970.1	1205.3	1732.7	2068.2	1933.3	1935.1	1419.7	984.0	686.5
80°	408.1	411.6	588.0	695.2	1003.0	1243.4	1099.8	894.0	639.8	522.2	409.8
82.5°	236.9	231.7	351.0	392.5	477.3	472.1	390.8	370.1	280.1	261.1	209.2
85°	95.1	88.2	153.9	143.5	145.3	153.9	114.1	114.1	91.7	70.9	51.9
87.5°	19.0	19.0	20.8	19.0	19.0	20.8	15.6	15.6	13.8	13.8	13.8
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: P842556
 CATALOG NUMBER: ARCH4-60-740-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1895.3	1895.3	1895.3	1895.3	1895.3	1895.3	1895.3	1895.3	1895.3	1895.3	1895.3
2.5°	1881.5	1878.0	1869.4	1846.9	1834.8	1827.9	1817.5	1814.0	1812.3	1814.0	1819.2
5°	1886.7	1874.5	1850.3	1814.0	1789.8	1774.2	1757.0	1750.0	1744.9	1744.9	1750.0
7.5°	1890.1	1871.1	1829.6	1776.0	1741.4	1717.2	1696.4	1687.8	1686.1	1691.2	1693.0
10°	1891.8	1864.2	1805.4	1737.9	1693.0	1661.8	1641.1	1635.9	1641.1	1651.5	1653.2
12.5°	1903.9	1865.9	1791.5	1712.0	1658.4	1627.3	1611.7	1611.7	1625.5	1644.6	1646.3
15°	1924.7	1878.0	1784.6	1691.2	1635.9	1608.2	1603.0	1611.7	1632.4	1661.8	1665.3
17.5°	1940.3	1884.9	1769.1	1663.6	1606.5	1589.2	1597.9	1618.6	1648.0	1687.8	1691.2
20°	1950.6	1884.9	1746.6	1630.7	1577.1	1573.7	1597.9	1630.7	1661.8	1708.5	1713.7
22.5°	1961.0	1881.5	1720.6	1590.9	1544.3	1554.6	1599.6	1641.1	1672.2	1722.4	1731.0
25°	1980.0	1886.7	1694.7	1551.2	1509.7	1539.1	1597.9	1648.0	1680.9	1732.7	1746.6
27.5°	2006.0	1898.8	1675.7	1514.9	1475.1	1514.9	1585.8	1646.3	1680.9	1731.0	1746.6
30°	2033.6	1912.6	1653.2	1475.1	1435.3	1480.3	1559.8	1627.3	1667.0	1713.7	1732.7
32.5°	2063.0	1928.2	1634.2	1431.9	1386.9	1433.6	1521.8	1597.9	1641.1	1684.3	1705.1
35°	2102.8	1955.8	1623.8	1397.3	1343.7	1385.2	1473.4	1559.8	1606.5	1646.3	1670.5
37.5°	2151.2	1990.4	1618.6	1362.7	1297.0	1331.6	1421.5	1513.1	1563.3	1596.1	1618.6
40°	2206.6	2033.6	1616.9	1329.8	1250.3	1276.2	1367.9	1459.5	1507.9	1533.9	1552.9
42.5°	2268.8	2082.1	1613.4	1297.0	1203.6	1224.3	1316.0	1405.9	1447.4	1469.9	1487.2
45°	2334.5	2130.5	1606.5	1257.2	1153.4	1177.6	1262.4	1341.9	1385.2	1404.2	1423.2
47.5°	2400.3	2178.9	1592.7	1212.2	1108.5	1131.0	1205.3	1274.5	1309.1	1326.4	1345.4
50°	2464.2	2222.1	1559.8	1160.4	1061.8	1082.5	1139.6	1186.3	1212.2	1226.1	1245.1
52.5°	2521.3	2251.5	1513.1	1099.8	1015.1	1025.5	1063.5	1103.3	1124.0	1125.8	1143.1
55°	2569.7	2267.1	1445.7	1037.6	964.9	966.7	987.4	1018.6	1027.2	1020.3	1032.4
57.5°	2597.4	2258.5	1371.3	973.6	913.1	906.1	921.7	937.3	939.0	921.7	933.8
60°	2604.3	2218.7	1274.5	909.6	861.2	842.2	847.4	843.9	840.4	833.5	843.9
62.5°	2569.7	2133.9	1167.3	847.4	805.8	776.5	774.7	773.0	778.2	779.9	781.6
65°	2443.5	1974.8	1039.3	783.4	747.1	707.3	705.5	726.3	733.2	722.8	726.3
67.5°	2199.7	1731.0	899.2	709.0	672.7	638.1	651.9	664.0	676.2	672.7	676.2
70°	1853.8	1421.5	771.3	626.0	591.4	572.4	588.0	598.3	600.1	596.6	600.1
72.5°	1457.8	1110.2	651.9	541.3	510.1	501.5	520.5	529.2	544.7	551.6	553.4
75°	1053.1	819.7	534.3	449.6	423.7	423.7	441.0	456.5	470.4	461.7	456.5
77.5°	588.0	489.4	383.9	309.5	314.7	338.9	345.9	363.2	377.0	375.3	371.8
80°	356.2	306.1	259.4	200.6	198.9	217.9	262.9	292.2	299.2	283.6	281.9
82.5°	185.0	160.8	138.3	112.4	124.5	145.3	152.2	183.3	202.3	195.4	204.1
85°	46.7	45.0	50.1	51.9	64.0	70.9	77.8	91.7	60.5	29.4	29.4
87.5°	13.8	13.8	17.3	17.3	22.5	27.7	25.9	25.9	13.8	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)