

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: P799891

Luminaire Tested: **ARCH2-60-730-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8938 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.8
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

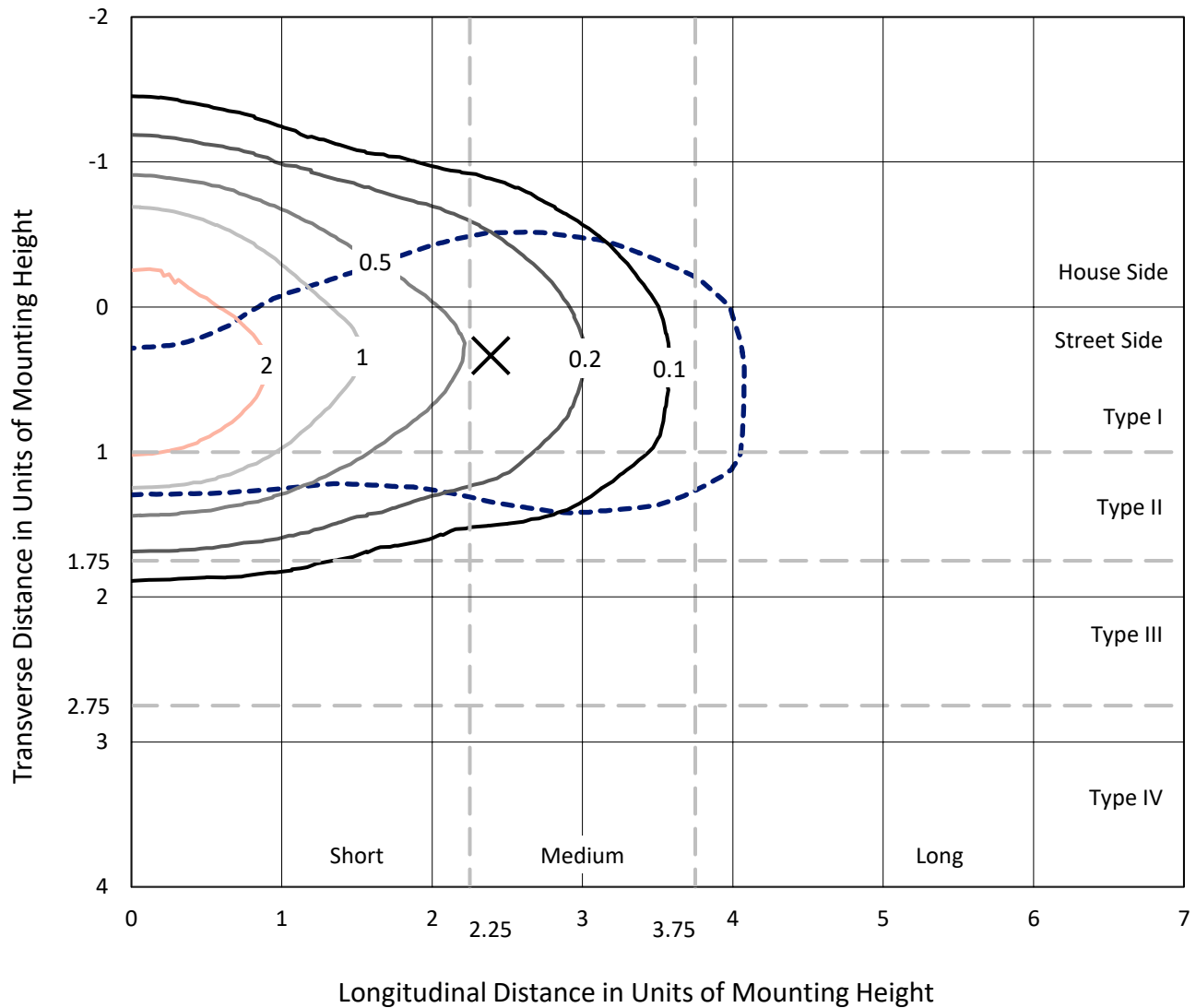


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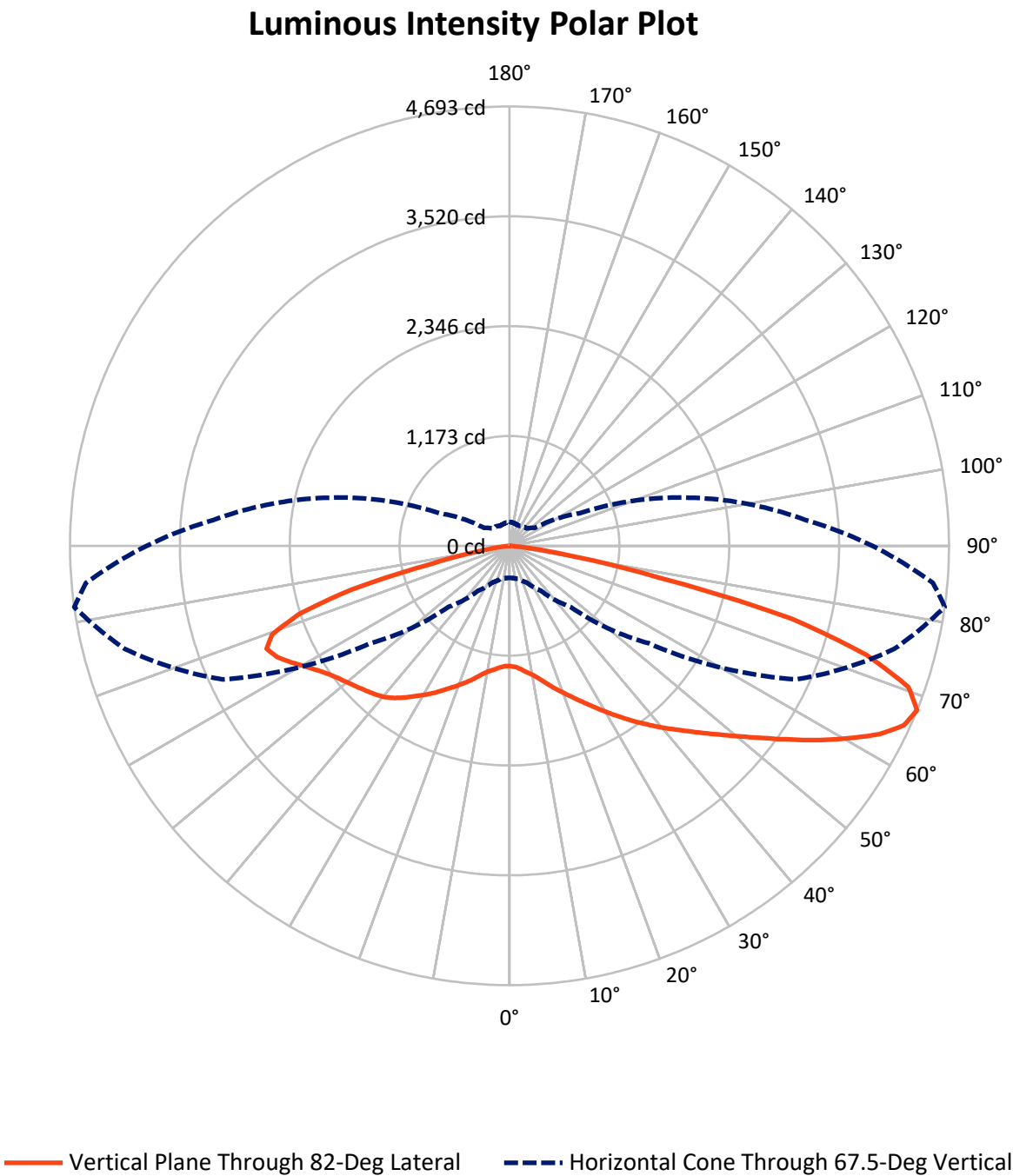
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type II - Medium - N/A

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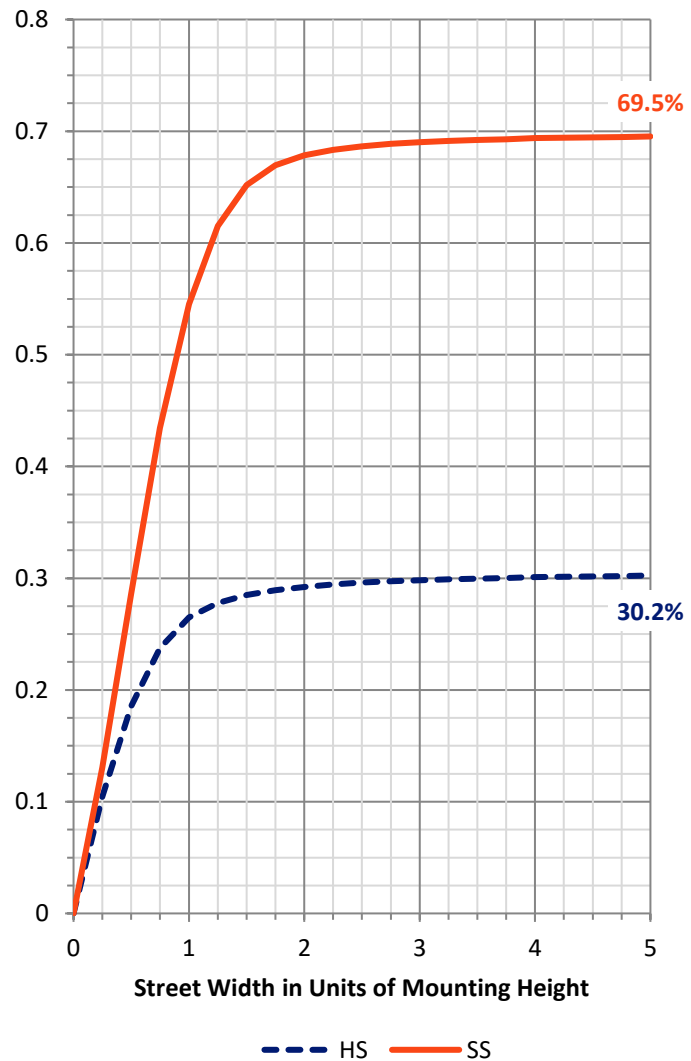
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2722.0	0.0	2722.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	6216.0	0.0	6216.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	8938.0	0.0	8938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	1.5
10°-20°	478.3	5.4
20°-30°	961.2	10.8
30°-40°	1510.0	16.9
40°-50°	1839.4	20.6
50°-60°	1738.1	19.4
60°-70°	1435.2	16.1
70°-80°	781.5	8.7
80°-90°	61.5	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°	8938.0	100.0
0°-180°	8938.0	100.0

Coefficient of Utilization



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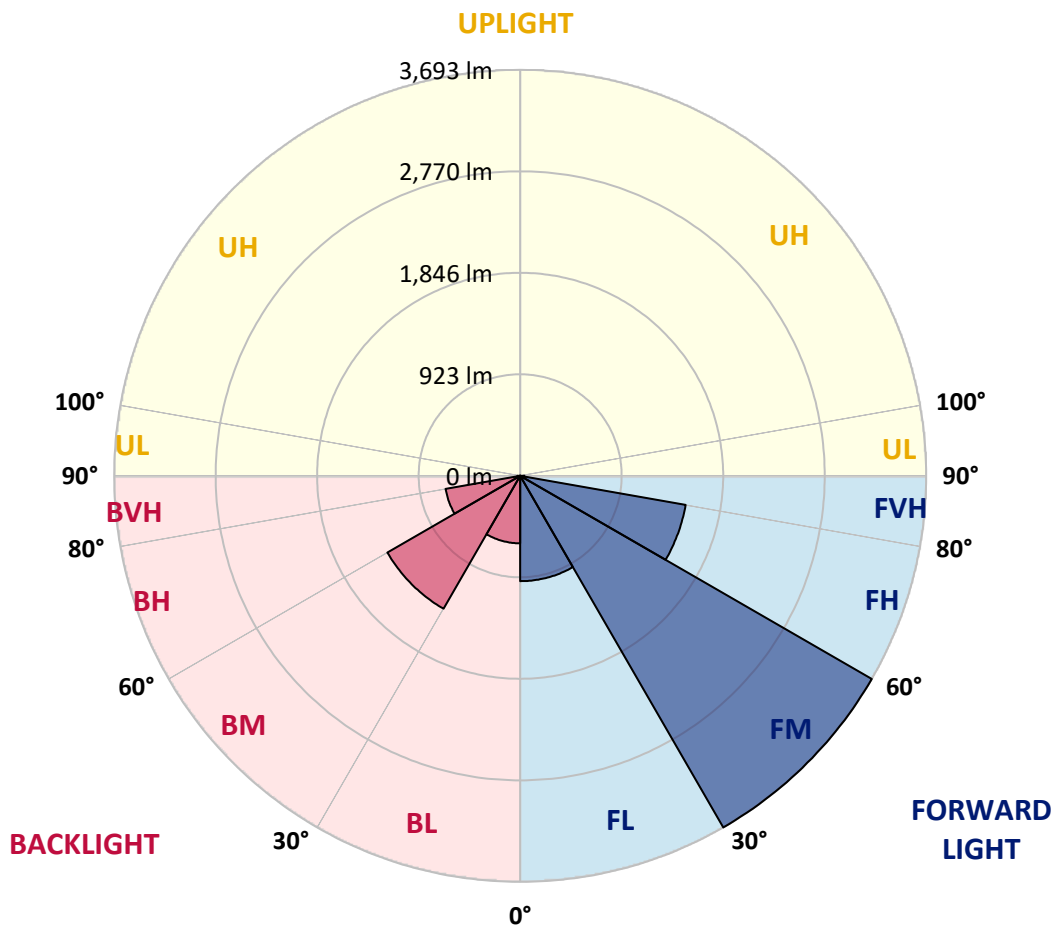
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	958.5	10.7			
FM	(30°-60°)	3692.7	41.3			
FH	(60°-80°)	1527.8	17.1			G1/1800
FVH	(80°-90°)	37.0	0.4			G1/100
BL	(0°-30°)	613.8	6.9	B2/1000		
BM	(30°-60°)	1394.8	15.6	B2/2500		
BH	(60°-80°)	688.9	7.7	B2/1000		G2/1000
BVH	(80°-90°)	24.4	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°	1284.8	1284.8	1284.8	1284.8	1284.8	1284.8	1284.8	1284.8	1284.8	1284.8	1284.8
2.5°	1343.2	1343.2	1353.6	1353.6	1344.5	1330.3	1326.4	1310.8	1296.5	1296.5	1297.8
5°	1471.7	1470.4	1478.2	1467.8	1445.8	1417.2	1397.7	1364.0	1335.4	1326.4	1325.1
7.5°	1628.8	1627.5	1631.3	1614.5	1572.9	1526.2	1487.3	1432.8	1386.1	1366.6	1361.4
10°	1804.0	1802.7	1798.8	1770.2	1714.4	1641.7	1583.3	1508.1	1438.0	1406.8	1400.3
12.5°	2005.1	2002.5	1993.4	1951.9	1875.3	1781.9	1697.5	1600.2	1506.8	1463.9	1449.7
15°	2229.6	2225.7	2208.9	2158.3	2055.7	1937.6	1828.6	1704.0	1589.8	1534.0	1514.5
17.5°	2465.8	2465.8	2439.9	2364.6	2250.4	2103.8	1968.8	1810.4	1676.8	1608.0	1584.6
20°	2705.9	2704.6	2672.2	2581.3	2446.4	2277.7	2106.3	1932.4	1766.3	1683.3	1654.7
22.5°	2959.0	2956.4	2916.2	2812.4	2651.4	2460.6	2260.8	2053.1	1865.0	1765.0	1728.7
25°	3249.7	3245.8	3196.5	3069.3	2878.5	2663.1	2434.7	2194.6	1977.9	1855.9	1813.0
27.5°	3558.6	3553.4	3495.0	3347.1	3138.1	2878.5	2626.8	2358.1	2102.5	1957.1	1909.1
30°	3833.7	3829.8	3766.2	3614.4	3374.3	3092.7	2809.8	2521.6	2233.5	2064.8	2005.1
32.5°	4041.4	4041.4	3984.3	3835.0	3585.9	3297.7	2994.0	2676.1	2369.8	2180.3	2110.2
35°	4167.3	4171.2	4121.8	4002.4	3767.5	3491.1	3184.8	2857.8	2515.2	2303.6	2228.3
37.5°	4185.4	4198.4	4169.9	4089.4	3893.4	3652.0	3371.7	3033.0	2665.7	2428.2	2343.8
40°	4101.1	4110.2	4111.5	4080.3	3945.3	3767.5	3536.5	3218.6	2825.3	2559.3	2461.9
42.5°	3932.4	3938.9	3950.5	3959.6	3907.7	3818.2	3662.4	3391.2	2995.3	2693.0	2578.8
45°	3714.3	3713.0	3732.5	3771.4	3768.8	3789.6	3732.5	3548.2	3171.9	2844.8	2708.5
47.5°	3388.6	3382.1	3450.9	3539.1	3583.3	3680.6	3733.8	3671.5	3363.9	3012.2	2856.5
50°	2878.5	2872.1	3022.6	3230.3	3360.0	3508.0	3662.4	3745.5	3565.1	3200.4	3017.4
52.5°	2258.2	2251.7	2442.5	2805.9	3088.8	3304.2	3518.4	3762.4	3755.9	3410.6	3199.1
55°	1679.4	1674.2	1859.8	2253.0	2711.1	3068.0	3341.9	3718.2	3935.0	3652.0	3419.7
57.5°	1183.6	1181.0	1341.9	1667.7	2225.7	2779.9	3171.9	3632.6	4099.8	3914.2	3668.9
60°	830.6	826.7	943.5	1195.3	1683.3	2345.1	3003.1	3518.4	4223.1	4172.5	3933.7
62.5°	559.4	556.8	639.8	850.1	1195.3	1805.3	2747.5	3441.8	4293.2	4432.0	4201.0
65°	424.4	423.1	460.7	576.2	846.2	1296.5	2341.3	3432.7	4302.2	4626.7	4428.1
67.5°	342.6	343.9	364.7	430.9	585.3	921.4	1815.6	3375.6	4254.2	4692.9	4538.4
70°	280.3	280.3	289.4	333.5	432.2	621.7	1268.0	3116.0	4120.5	4520.3	4407.4
72.5°	214.1	215.4	244.0	269.9	325.8	436.1	812.4	2578.8	3805.2	3985.6	3899.9
75°	170.0	168.7	185.6	221.9	253.1	311.5	498.4	1849.4	3238.0	3114.7	3060.2
77.5°	122.0	120.7	133.7	164.8	192.1	220.6	297.2	933.1	1761.1	1618.4	1578.1
80°	83.1	80.5	92.1	114.2	127.2	129.8	145.4	358.2	768.3	724.2	715.1
82.5°	42.8	42.8	49.3	64.9	66.2	67.5	64.9	115.5	254.4	237.5	227.1
85°	16.9	16.9	18.2	22.1	22.1	23.4	23.4	29.8	27.3	26.0	24.7
87.5°	1.3	1.3	2.6	2.6	3.9	3.9	3.9	5.2	6.5	6.5	6.5
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°	1284.8	1284.8	1284.8	1284.8	1284.8	1284.8	1284.8	1284.8	1284.8	1284.8	1284.8
2.5°	1295.2	1290.0	1273.2	1269.3	1266.7	1262.8	1264.1	1255.0	1251.1	1252.4	1247.2
5°	1318.6	1309.5	1288.7	1279.6	1277.0	1273.2	1277.0	1270.6	1264.1	1266.7	1264.1
7.5°	1351.0	1338.0	1312.1	1303.0	1301.7	1297.8	1303.0	1297.8	1292.6	1295.2	1290.0
10°	1384.8	1367.9	1339.3	1330.3	1330.3	1329.0	1334.1	1326.4	1321.2	1322.5	1319.9
12.5°	1434.1	1412.0	1380.9	1373.1	1369.2	1373.1	1374.4	1364.0	1354.9	1356.2	1352.3
15°	1493.8	1469.1	1435.4	1423.7	1421.1	1419.8	1414.6	1401.6	1390.0	1388.7	1384.8
17.5°	1558.7	1527.5	1487.3	1475.6	1463.9	1460.0	1447.1	1430.2	1412.0	1412.0	1406.8
20°	1621.0	1585.9	1537.9	1521.0	1504.2	1488.6	1466.5	1439.3	1415.9	1412.0	1406.8
22.5°	1688.5	1646.9	1591.1	1566.5	1536.6	1505.5	1467.8	1431.5	1401.6	1395.1	1391.3
25°	1763.7	1711.8	1645.6	1609.3	1561.3	1513.2	1457.4	1410.7	1375.7	1365.3	1362.7
27.5°	1846.8	1784.5	1704.0	1650.8	1580.7	1505.5	1434.1	1378.3	1335.4	1322.5	1318.6
30°	1931.1	1857.2	1757.2	1679.4	1580.7	1480.8	1391.3	1326.4	1277.0	1258.9	1256.3
32.5°	2015.5	1932.4	1805.3	1694.9	1565.2	1439.3	1335.4	1258.9	1203.1	1181.0	1186.2
35°	2116.7	2015.5	1849.4	1701.4	1539.2	1388.7	1271.9	1182.3	1125.2	1105.7	1109.6
37.5°	2221.9	2098.6	1884.4	1696.2	1502.9	1331.6	1200.5	1113.5	1042.1	1008.4	1012.3
40°	2312.7	2173.8	1909.1	1678.1	1456.1	1266.7	1130.4	1016.2	917.6	885.1	881.2
42.5°	2398.4	2229.6	1922.1	1650.8	1402.9	1191.4	1030.5	883.8	785.2	744.9	746.2
45°	2487.9	2284.1	1916.9	1614.5	1336.7	1103.1	902.0	754.0	667.1	630.7	632.0
47.5°	2590.4	2342.5	1911.7	1575.5	1256.3	988.9	778.7	639.8	564.5	538.6	536.0
50°	2699.4	2407.4	1905.2	1527.5	1166.7	861.7	656.7	533.4	469.8	452.9	449.0
52.5°	2822.7	2477.5	1901.3	1470.4	1059.0	726.8	547.7	440.0	397.1	385.4	384.2
55°	2970.7	2559.3	1906.5	1401.6	929.2	599.6	455.5	379.0	350.4	343.9	342.6
57.5°	3151.1	2664.4	1922.1	1321.2	793.0	489.3	388.0	341.3	323.2	318.0	318.0
60°	3347.1	2783.8	1950.6	1230.3	656.7	403.6	343.9	311.5	303.7	310.2	310.2
62.5°	3558.6	2924.0	2001.2	1120.0	529.5	341.3	308.9	286.8	281.6	294.6	295.9
65°	3754.6	3060.2	2033.7	987.6	420.5	295.9	281.6	262.2	264.8	277.7	276.4
67.5°	3875.3	3173.1	1988.2	821.5	333.5	262.2	253.1	236.2	242.7	253.1	254.4
70°	3801.3	3109.6	1763.7	620.4	260.9	228.4	221.9	211.5	216.7	229.7	234.9
72.5°	3439.2	2785.1	1371.8	419.2	210.2	192.1	194.7	189.5	196.0	207.6	219.3
75°	2791.6	2105.0	920.1	268.6	166.1	163.5	167.4	163.5	166.1	177.8	184.3
77.5°	1457.4	1026.6	458.1	167.4	123.3	127.2	133.7	135.0	142.8	145.4	148.0
80°	680.1	462.0	190.8	93.4	81.8	89.5	102.5	103.8	106.4	110.3	111.6
82.5°	221.9	138.9	88.3	50.6	46.7	50.6	66.2	79.2	80.5	88.3	88.3
85°	23.4	14.3	19.5	20.8	18.2	22.1	29.8	28.6	13.0	7.8	7.8
87.5°	6.5	5.2	6.5	6.5	5.2	5.2	3.9	1.3	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)