

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: P400538

Luminaire Tested: **ARCH-L-PA3-90-827-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-827-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11422 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

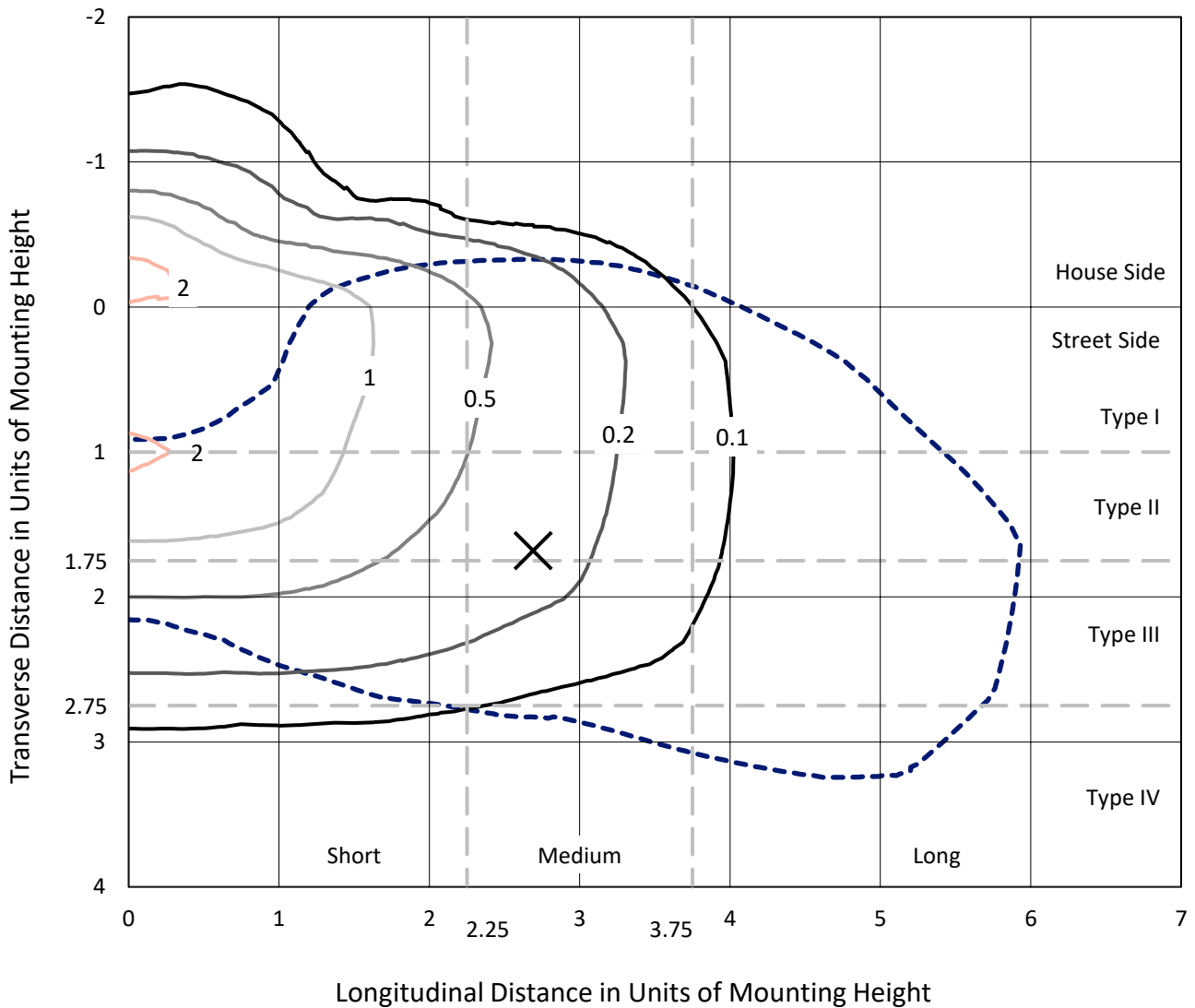
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

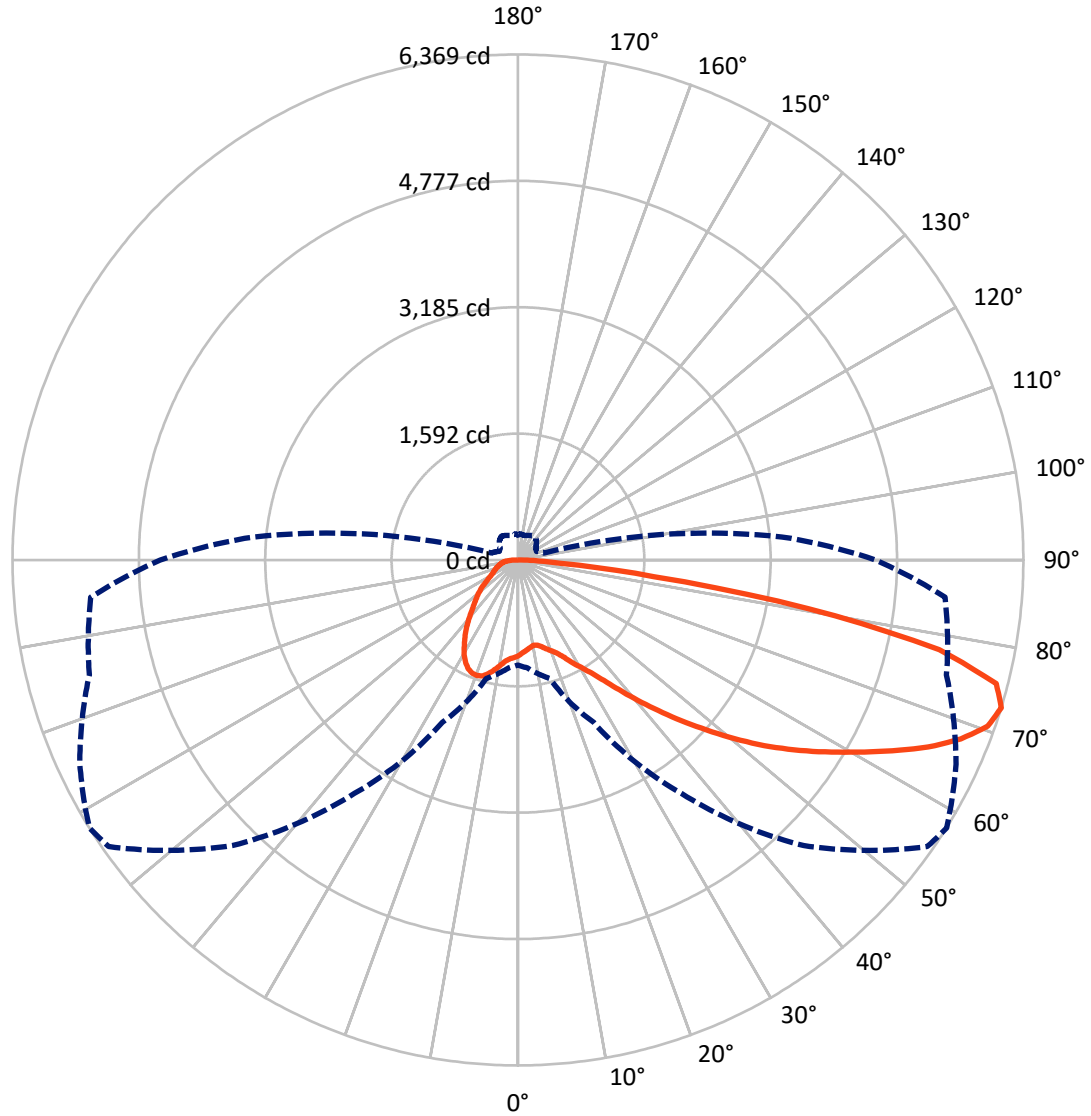
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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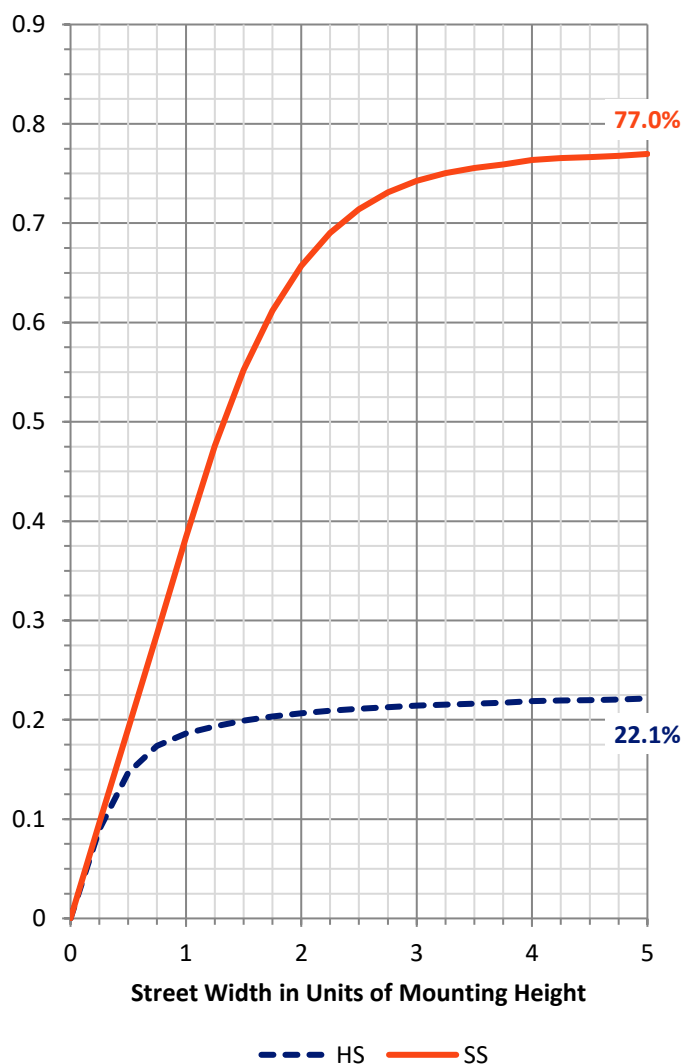
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2590.4	0.0	2590.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	8831.6	0.0	8831.6
	% Fixture	77.3	0.0	77.3
Total	Lumens	11422.0	0.0	11422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	1.0
10°-20°	368.6	3.2
20°-30°	660.2	5.8
30°-40°	993.2	8.7
40°-50°	1608.3	14.1
50°-60°	2421.0	21.2
60°-70°	2849.3	24.9
70°-80°	2020.4	17.7
80°-90°	385.0	3.4
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°	11422.0	100.0
0°-180°	11422.0	100.0

Coefficient of Utilization



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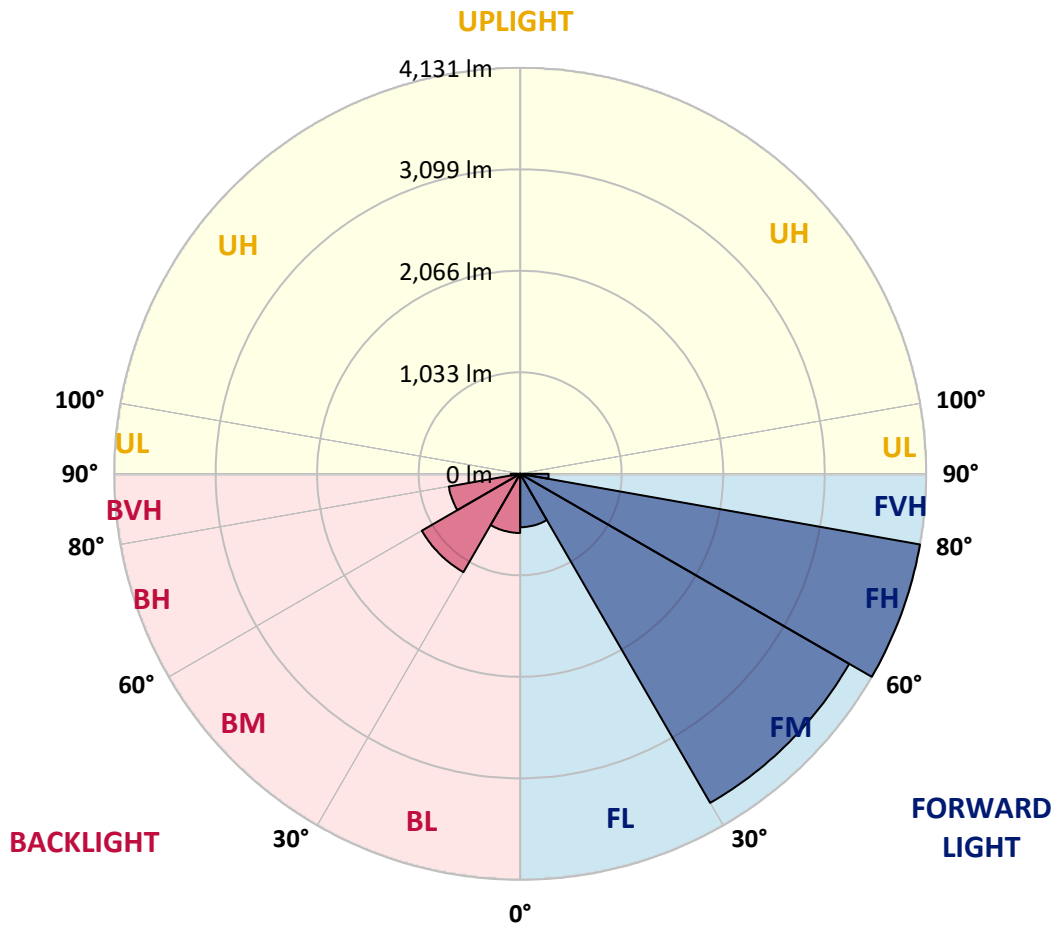
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.2	4.8			
FM (30°-60°)	3866.7	33.9			
FH (60°-80°)	4131.4	36.2			G2/5000
FVH (80°-90°)	290.4	2.5			G3/500
BL (0°-30°)	601.7	5.3	B2/1000		
BM (30°-60°)	1155.8	10.1	B2/2500		
BH (60°-80°)	738.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	94.6	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8
2.5°	1159.5	1153.5	1155.0	1155.0	1161.1	1164.1	1165.6	1170.1	1173.1	1180.7	1191.2
5°	1105.3	1100.7	1102.2	1103.8	1114.3	1124.9	1133.9	1139.9	1149.0	1161.1	1176.1
7.5°	1066.1	1063.0	1064.5	1067.6	1076.6	1088.7	1103.8	1112.8	1126.4	1149.0	1174.6
10°	1037.4	1037.4	1038.9	1044.9	1054.0	1069.1	1081.1	1091.7	1118.8	1159.5	1198.7
12.5°	1014.8	1014.8	1019.3	1031.4	1046.5	1061.5	1090.2	1102.2	1138.4	1194.2	1241.0
15°	1013.3	1014.8	1016.3	1026.9	1043.4	1076.6	1118.8	1136.9	1180.7	1247.0	1301.3
17.5°	1037.4	1038.9	1032.9	1035.9	1055.5	1102.2	1158.0	1179.1	1234.9	1307.3	1363.1
20°	1111.3	1111.3	1093.2	1076.6	1090.2	1141.4	1204.8	1225.9	1287.7	1367.6	1423.4
22.5°	1262.1	1269.6	1227.4	1191.2	1170.1	1198.7	1256.0	1278.7	1348.0	1434.0	1489.8
25°	1444.5	1452.1	1394.8	1343.5	1304.3	1299.8	1337.5	1361.6	1418.9	1507.9	1554.6
27.5°	1620.9	1607.4	1554.6	1506.3	1456.6	1415.9	1444.5	1465.6	1532.0	1599.8	1628.5
30°	1759.7	1749.1	1697.8	1663.2	1616.4	1563.6	1547.1	1569.7	1624.0	1687.3	1702.4
32.5°	1913.5	1905.9	1854.7	1809.4	1770.2	1720.5	1684.3	1694.8	1725.0	1770.2	1779.3
35°	2109.5	2126.1	2071.8	1979.8	1936.1	1887.8	1862.2	1865.2	1887.8	1916.5	1901.4
37.5°	2316.1	2335.7	2338.7	2193.9	2135.1	2091.4	2064.3	2074.8	2102.0	2121.6	2074.8
40°	2699.1	2679.5	2601.1	2494.0	2403.5	2361.3	2323.6	2322.1	2341.7	2376.4	2291.9
42.5°	3207.2	3189.1	3030.8	2892.1	2748.8	2700.6	2626.7	2595.0	2604.1	2647.8	2530.2
45°	3694.3	3686.7	3560.1	3398.7	3226.8	3133.3	2964.4	2887.5	2880.0	2914.7	2774.5
47.5°	4127.0	4093.8	4001.9	3876.7	3858.6	3614.3	3303.7	3199.7	3163.5	3183.1	3026.3
50°	4589.9	4476.8	4350.2	4273.3	4404.5	4176.8	3646.0	3537.4	3448.5	3462.0	3299.2
52.5°	4835.7	4645.7	4562.8	4585.4	4761.8	4674.4	4018.4	3885.7	3742.5	3762.1	3570.6
55°	4624.6	4623.1	4659.3	4799.5	5045.3	4944.3	4372.8	4223.5	4066.7	4071.2	3882.7
57.5°	4335.1	4393.9	4580.9	4890.0	5396.6	5227.7	4721.1	4562.8	4419.5	4396.9	4237.1
60°	4071.2	4136.1	4407.5	4874.9	5518.8	5487.1	5052.8	4914.1	4798.0	4731.7	4609.5
62.5°	3670.1	3718.4	4102.9	4778.4	5416.2	5674.1	5389.1	5294.1	5206.6	5069.4	5010.6
65°	3198.2	3214.8	3620.4	4460.2	5288.1	5746.4	5723.8	5681.6	5597.2	5395.1	5407.2
67.5°	2687.0	2720.2	3076.0	3952.1	5007.6	5713.3	5983.2	6017.9	5918.3	5615.3	5660.5
70°	2142.7	2183.4	2453.3	3249.4	4531.1	5570.0	6222.9	6278.7	6087.2	5687.6	5707.2
72.5°	1325.4	1364.6	1545.6	2257.3	3591.7	5089.0	6296.8	6369.2	6091.7	5591.1	5402.7
75°	458.4	462.9	604.7	1082.6	2132.1	3842.0	6055.6	6225.9	5900.2	5239.8	4701.5
77.5°	209.6	217.1	268.4	446.3	945.4	2073.3	5000.1	5426.8	5318.2	4690.9	3618.9
80°	144.8	147.8	185.5	266.9	545.8	729.8	3155.9	3712.3	3902.3	3632.4	2319.1
82.5°	108.6	111.6	143.2	180.9	393.6	354.3	1201.8	1725.0	2144.2	2105.0	969.6
85°	104.0	102.5	111.6	120.6	262.4	211.1	389.0	533.8	836.9	716.2	244.3
87.5°	45.2	49.8	114.6	67.9	137.2	98.0	168.9	197.5	254.8	221.7	87.5
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°	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8
2.5°	1195.7	1198.7	1207.8	1221.4	1228.9	1244.0	1254.5	1260.6	1265.1	1266.6	1266.6
5°	1185.2	1191.2	1210.8	1233.4	1254.5	1286.2	1314.9	1331.4	1343.5	1348.0	1349.5
7.5°	1188.2	1203.3	1231.9	1265.1	1292.2	1332.9	1367.6	1400.8	1427.9	1438.5	1438.5
10°	1216.8	1238.0	1277.2	1320.9	1355.6	1397.8	1434.0	1462.6	1494.3	1512.4	1515.4
12.5°	1260.6	1286.2	1337.5	1385.7	1424.9	1458.1	1491.3	1512.4	1527.5	1541.0	1544.0
15°	1322.4	1354.1	1405.3	1455.1	1489.8	1510.9	1519.9	1519.9	1518.4	1519.9	1522.9
17.5°	1384.2	1414.4	1465.6	1515.4	1532.0	1519.9	1509.4	1506.3	1504.8	1501.8	1503.3
20°	1444.5	1473.2	1516.9	1554.6	1541.0	1498.8	1485.2	1483.7	1479.2	1476.2	1473.2
22.5°	1504.8	1526.0	1562.1	1575.7	1521.4	1461.1	1444.5	1435.5	1429.4	1421.9	1414.4
25°	1574.2	1580.2	1607.4	1586.3	1473.2	1391.8	1367.6	1354.1	1348.0	1340.5	1334.5
27.5°	1639.0	1639.0	1643.6	1569.7	1402.3	1299.8	1263.6	1239.5	1238.0	1236.4	1234.9
30°	1697.8	1690.3	1675.2	1519.9	1310.3	1186.7	1132.4	1108.3	1117.3	1124.9	1126.4
32.5°	1767.2	1752.1	1709.9	1452.1	1200.3	1060.0	993.7	983.1	993.7	1002.7	996.7
35°	1875.8	1848.6	1746.1	1373.7	1094.7	943.9	880.6	865.5	862.5	861.0	848.9
37.5°	2031.1	1984.3	1774.7	1289.2	990.7	841.4	794.6	763.0	734.3	704.2	699.6
40°	2221.1	2141.2	1794.4	1192.7	880.6	755.4	705.7	665.0	616.7	563.9	557.9
42.5°	2429.2	2310.0	1803.4	1085.7	784.1	684.6	622.7	571.5	517.2	476.5	468.9
45°	2653.8	2492.5	1795.9	983.1	705.7	624.3	554.9	499.1	455.4	426.7	420.7
47.5°	2872.5	2702.1	1774.7	901.7	645.4	573.0	502.1	450.8	417.7	386.0	378.5
50°	3152.9	2902.6	1749.1	838.4	579.0	521.7	468.9	414.7	377.0	361.9	358.9
52.5°	3463.5	3103.2	1719.0	758.5	514.2	481.0	447.8	399.6	387.5	358.9	354.3
55°	3799.8	3341.4	1712.9	657.4	456.9	452.4	426.7	413.2	416.2	358.9	351.3
57.5°	4154.1	3596.2	1726.5	556.4	410.1	426.7	435.8	425.2	420.7	366.4	351.3
60°	4523.6	3842.0	1685.8	462.9	373.9	405.6	446.3	419.2	386.0	363.4	352.8
62.5°	4882.4	4048.6	1509.4	396.6	346.8	399.6	440.3	396.6	358.9	358.9	354.3
65°	5143.3	4140.6	1180.7	348.3	328.7	392.0	429.7	381.5	351.3	361.9	355.9
67.5°	5173.5	4045.6	793.1	310.6	313.6	378.5	405.6	367.9	343.8	370.9	361.9
70°	4988.0	3798.3	485.5	282.0	294.0	354.3	384.5	354.3	333.2	363.4	349.8
72.5°	4507.0	3336.9	342.3	257.8	272.9	331.7	364.9	342.3	318.2	328.7	315.1
75°	3697.3	2586.0	271.4	235.2	251.8	310.6	348.3	324.2	300.1	295.5	286.5
77.5°	2619.1	1657.1	218.6	217.1	229.2	285.0	325.7	303.1	279.0	269.9	263.9
80°	1506.3	812.7	188.5	196.0	208.1	259.4	298.6	279.0	256.3	242.8	233.7
82.5°	576.0	283.5	165.9	170.4	184.0	232.2	271.4	254.8	232.2	244.3	205.1
85°	187.0	155.3	135.7	140.2	153.8	193.0	239.7	226.2	200.5	177.9	164.4
87.5°	82.9	84.4	72.4	79.9	96.5	128.2	174.9	165.9	146.3	122.1	117.6
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)