

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: P237302

Luminaire Tested: **ARCH-L-AF72-90-D-U-T4W-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-90-D-U-T4W-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12593.2 lumens
Efficiency: N/A
Efficacy: 135.4 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

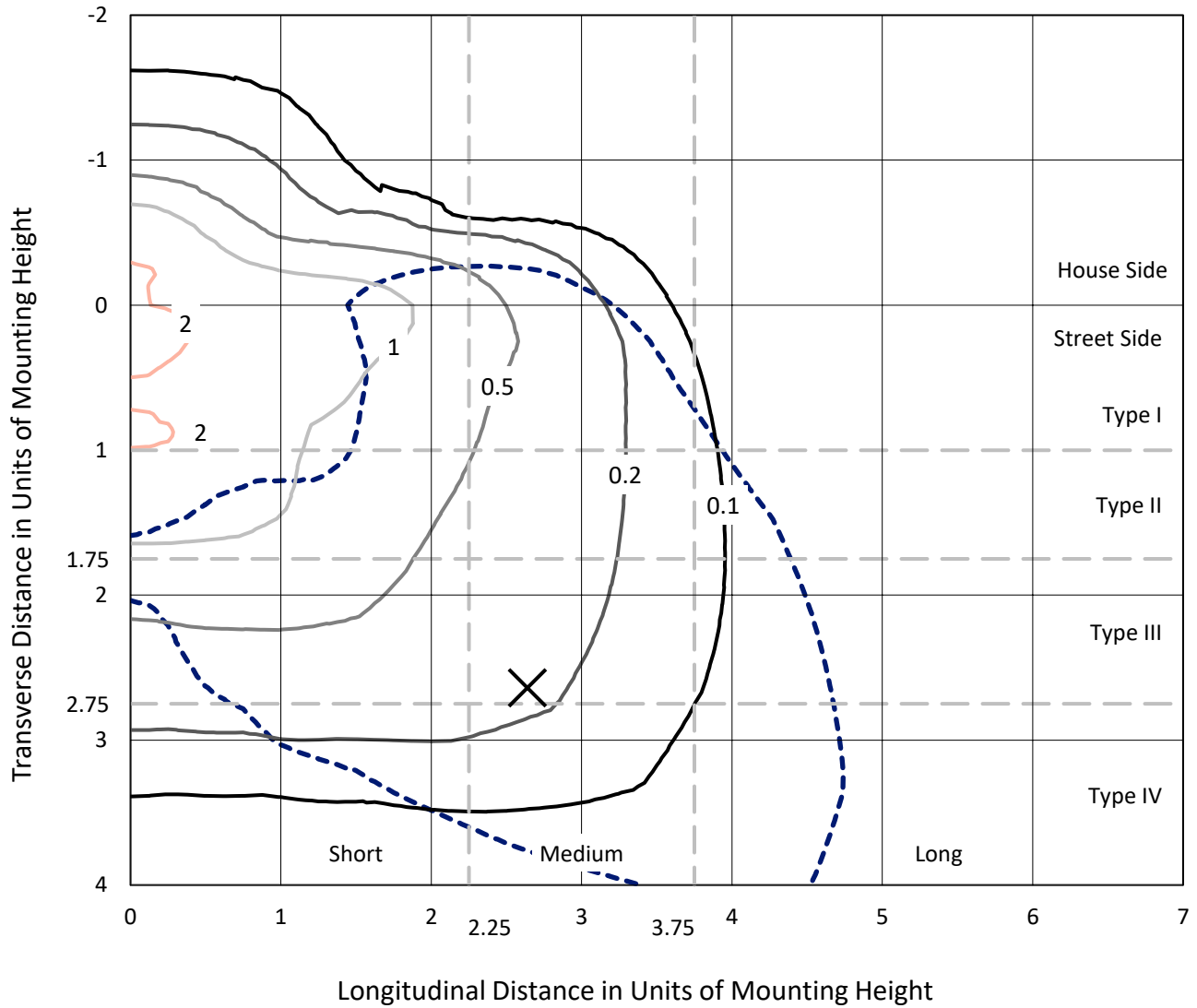
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P237302
 CATALOG NUMBER: ARCH-L-AF72-90-D-U-T4W-7030

Iso-Footcandle Lines of Horizontal Illumination

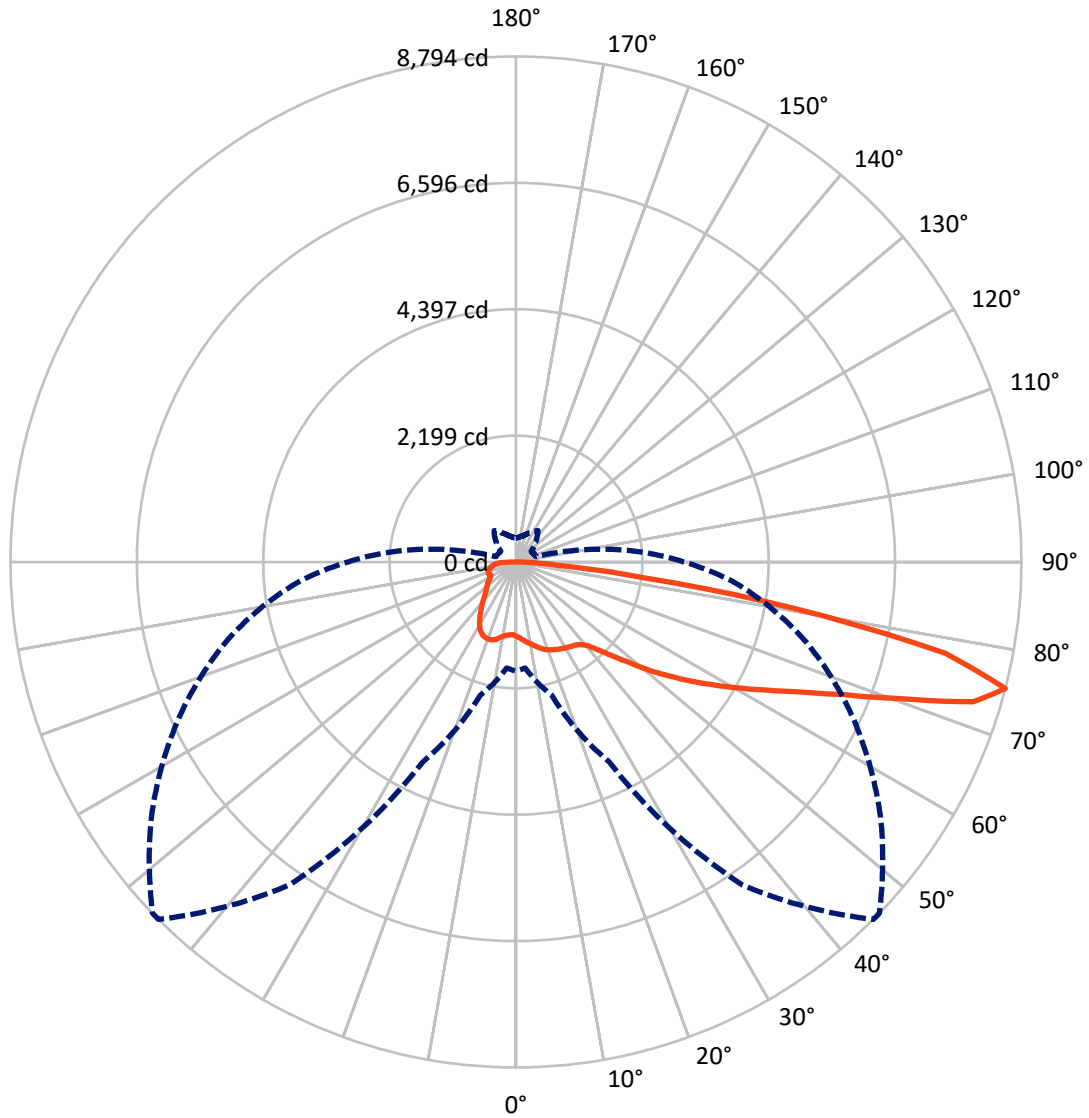
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P237302
CATALOG NUMBER: ARCH-L-AF72-90-D-U-T4W-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P237302
 CATALOG NUMBER: ARCH-L-AF72-90-D-U-T4W-7030

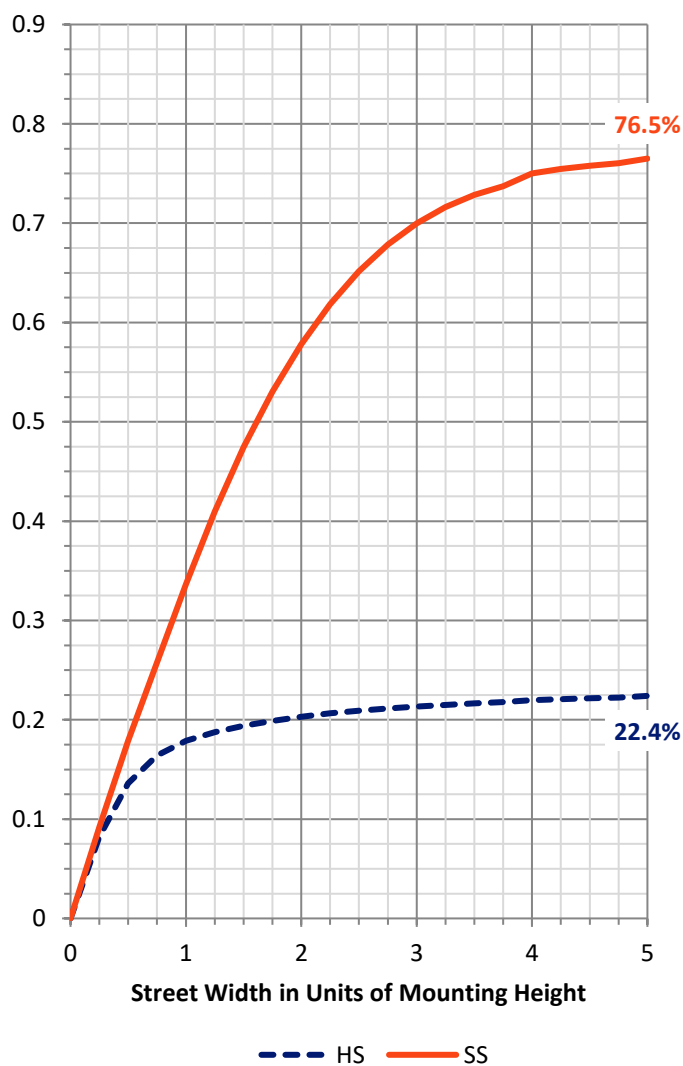
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2917.3	0.0	2917.3
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	9675.9	0.0	9675.9
	% Fixture	76.8	0.0	76.8
Total	Lumens	12593.2	0.0	12593.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	1.0
10°-20°	414.6	3.3
20°-30°	711.4	5.6
30°-40°	995.0	7.9
40°-50°	1459.6	11.6
50°-60°	2273.7	18.1
60°-70°	3271.6	26.0
70°-80°	2849.9	22.6
80°-90°	489.5	3.9
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°	12593.2	100.0
0°-180°	12593.2	100.0

Coefficient of Utilization



REPORT NUMBER: P237302

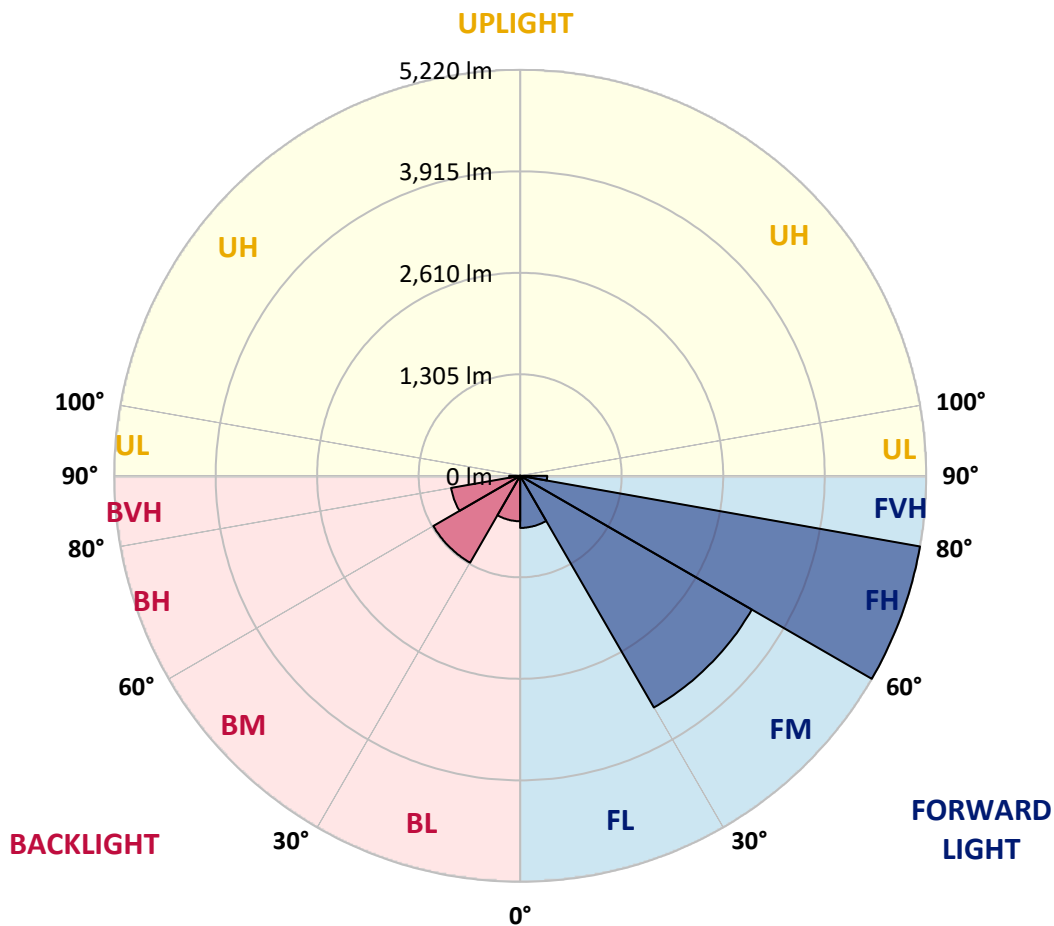
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	669.7	5.3			
FM (30°-60°)	3439.0	27.3			
FH (60°-80°)	5220.0	41.5			G3/7500
FVH (80°-90°)	347.3	2.8			G3/500
BL (0°-30°)	584.3	4.6	B2/1000		
BM (30°-60°)	1289.3	10.2	B2/2500		
BH (60°-80°)	901.5	7.2	B2/1000		G2/1000
BVH (80°-90°)	142.2	1.1			G2/225
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





REPORT NUMBER: P237302

CATALOG NUMBER: ARCH-L-AF72-90-D-U-T4W-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0
2.5°	1354.7	1344.9	1344.9	1337.6	1337.6	1325.4	1320.4	1317.8	1305.6	1298.3	1291.0
5°	1433.1	1420.8	1418.4	1401.2	1393.8	1367.0	1364.4	1347.2	1325.4	1303.3	1286.1
7.5°	1504.1	1496.8	1484.5	1467.4	1445.3	1411.0	1408.6	1381.6	1344.9	1315.5	1291.0
10°	1555.6	1550.6	1533.5	1511.5	1486.9	1452.7	1450.2	1420.8	1376.7	1342.5	1308.2
12.5°	1616.8	1609.4	1587.4	1558.0	1531.0	1499.2	1496.8	1472.3	1423.3	1379.2	1335.0
15°	1675.6	1665.7	1638.9	1609.4	1580.0	1553.1	1553.1	1526.2	1474.7	1423.3	1371.9
17.5°	1705.0	1700.1	1673.1	1641.3	1616.8	1597.2	1594.7	1570.3	1518.8	1464.9	1408.6
20°	1714.9	1717.2	1692.8	1658.4	1641.3	1631.5	1629.0	1611.9	1555.6	1504.1	1450.2
22.5°	1712.3	1719.6	1700.1	1663.4	1658.4	1658.4	1658.4	1638.9	1594.7	1543.3	1489.4
25°	1722.2	1732.0	1717.2	1673.1	1673.1	1682.9	1682.9	1673.1	1634.0	1589.8	1535.9
27.5°	1756.5	1763.8	1751.5	1690.2	1692.8	1707.4	1705.0	1707.4	1682.9	1641.3	1587.4
30°	1798.1	1807.9	1793.2	1717.2	1714.9	1729.5	1729.5	1741.7	1724.5	1680.5	1636.3
32.5°	1910.7	1908.3	1861.8	1746.6	1739.3	1753.9	1753.9	1766.1	1756.5	1722.2	1680.5
35°	2246.4	2209.7	2106.7	1842.1	1768.7	1776.0	1776.0	1798.1	1803.0	1776.0	1739.3
37.5°	2589.3	2577.1	2498.6	2096.9	1876.4	1822.6	1820.2	1852.0	1874.1	1852.0	1827.5
40°	2934.7	2924.9	2907.8	2437.5	2101.8	1905.8	1898.5	1925.4	1964.7	1950.0	1935.2
42.5°	3255.6	3250.7	3267.8	2773.0	2388.4	2084.6	2062.6	2030.8	2087.2	2082.3	2082.3
45°	3508.0	3520.3	3529.9	3086.6	2699.6	2314.9	2288.0	2180.3	2256.2	2275.8	2290.4
47.5°	3650.1	3659.8	3694.2	3392.8	3010.6	2582.1	2562.3	2386.0	2486.4	2545.2	2586.8
50°	3853.3	3826.4	3855.8	3691.7	3385.5	2929.8	2875.9	2662.7	2790.2	2893.0	2991.1
52.5°	4049.3	4005.2	4029.7	4037.1	3811.7	3270.3	3214.0	2988.6	3147.9	3309.6	3483.4
55°	4225.7	4223.3	4247.8	4372.7	4223.3	3635.4	3571.6	3348.7	3579.0	3752.9	4046.9
57.5°	4367.7	4392.3	4500.1	4762.2	4698.4	4032.2	3961.2	3767.6	4039.6	4213.5	4701.0
60°	4534.4	4573.6	4752.3	5092.9	5132.1	4448.6	4375.2	4235.6	4512.3	4688.7	5457.9
62.5°	4590.7	4647.1	5014.5	5440.8	5585.4	4904.3	4838.1	4745.0	5009.6	5168.8	6212.4
65°	4215.9	4323.7	5159.0	5619.5	6072.7	5453.0	5396.7	5315.8	5504.5	5609.8	6724.4
67.5°	4113.1	4162.0	4877.4	5876.8	6530.9	6158.5	6102.1	5962.5	5967.4	5923.4	6891.0
70°	3968.6	4022.4	4588.3	6070.3	7187.4	7123.7	7055.1	6643.5	6391.2	6124.2	6562.6
72.5°	3380.6	3363.4	3953.8	5548.5	7503.4	8319.1	8238.2	7376.0	6704.8	5950.3	5538.8
75°	1898.5	1849.5	2398.2	3838.6	6851.7	8794.4	8791.9	7745.9	6484.3	5183.6	3770.1
77.5°	551.2	536.5	791.2	1609.4	4612.7	7640.6	7733.7	6986.5	5411.4	3723.5	2070.0
80°	259.7	264.5	340.5	531.5	1969.5	4931.2	5198.2	4600.5	3233.6	1717.2	855.0
82.5°	164.1	166.6	232.7	343.0	832.9	2239.0	2459.5	2070.0	1281.2	742.3	377.3
85°	102.9	102.9	154.4	225.4	497.2	715.3	776.5	705.5	548.7	404.2	205.7
87.5°	56.4	56.4	93.1	129.8	271.9	230.3	237.6	281.7	343.0	247.5	102.9
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: P237302

CATALOG NUMBER: ARCH-L-AF72-90-D-U-T4W-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0
2.5°	1288.5	1283.7	1276.2	1273.9	1271.3	1268.9	1271.3	1276.2	1271.3	1271.3	1273.9
5°	1281.2	1276.2	1266.6	1266.6	1268.9	1271.3	1283.7	1291.0	1293.4	1293.4	1293.4
7.5°	1281.2	1273.9	1266.6	1268.9	1273.9	1283.7	1303.3	1315.5	1325.4	1327.7	1327.7
10°	1293.4	1283.7	1278.8	1283.7	1298.3	1305.6	1325.4	1344.9	1357.1	1362.0	1362.0
12.5°	1315.5	1305.6	1305.6	1315.5	1335.0	1344.9	1362.0	1376.7	1391.4	1398.7	1398.7
15°	1352.2	1339.9	1342.5	1359.6	1381.6	1391.4	1403.7	1408.6	1420.8	1430.6	1430.6
17.5°	1386.5	1374.3	1379.2	1398.7	1413.5	1418.4	1425.8	1423.3	1428.1	1435.5	1438.0
20°	1425.8	1413.5	1415.9	1428.1	1430.6	1425.8	1425.8	1418.4	1415.9	1428.1	1433.1
22.5°	1464.9	1452.7	1450.2	1442.9	1430.6	1418.4	1411.0	1403.7	1398.7	1411.0	1415.9
25°	1511.5	1494.3	1482.1	1450.2	1418.4	1396.4	1386.5	1381.6	1379.2	1391.4	1396.4
27.5°	1562.9	1545.8	1509.0	1440.4	1389.0	1352.2	1344.9	1344.9	1349.8	1357.1	1362.0
30°	1611.9	1594.7	1528.6	1418.4	1337.6	1283.7	1276.2	1283.7	1296.0	1303.3	1310.6
32.5°	1660.8	1643.7	1540.9	1384.1	1261.6	1193.0	1188.0	1200.3	1220.0	1224.8	1229.7
35°	1727.1	1709.9	1555.6	1335.0	1166.1	1092.6	1087.6	1095.0	1112.1	1119.5	1126.9
37.5°	1820.2	1810.3	1577.6	1281.2	1077.9	997.0	982.4	977.5	987.2	984.8	994.6
40°	1942.6	1950.0	1616.8	1210.1	992.1	908.8	877.1	862.3	852.4	832.9	842.7
42.5°	2121.4	2126.3	1660.8	1129.3	918.7	825.6	783.9	756.9	737.4	705.5	710.4
45°	2383.5	2341.9	1712.3	1043.5	852.4	759.4	710.4	678.6	651.6	624.6	627.1
47.5°	2731.4	2603.9	1768.7	972.5	786.3	705.5	661.4	624.6	592.8	570.8	573.2
50°	3160.1	2929.8	1825.0	906.5	720.2	663.9	624.6	585.5	553.6	531.5	529.2
52.5°	3726.0	3321.8	1861.8	832.9	654.0	627.1	592.8	556.1	516.9	489.9	487.6
55°	4313.9	3777.4	1893.6	744.7	590.3	585.5	568.3	526.6	480.0	445.9	441.0
57.5°	4960.6	4264.9	1918.1	659.0	541.4	551.2	546.3	497.2	445.9	414.0	411.6
60°	5548.5	4769.5	1839.7	583.0	497.2	516.9	521.8	480.0	453.2	460.5	463.0
62.5°	6141.4	5159.0	1540.9	526.6	467.8	494.8	536.5	534.1	521.8	534.1	536.5
65°	6354.5	5239.8	1092.6	480.0	438.4	504.7	583.0	578.1	521.8	499.8	494.8
67.5°	6234.5	4999.8	734.9	443.4	416.5	516.9	632.1	578.1	502.1	472.8	463.0
70°	5663.7	4409.4	538.9	406.7	396.8	514.4	659.0	575.7	492.4	460.5	448.3
72.5°	4517.3	3402.7	433.5	372.3	367.4	502.1	673.7	570.8	482.6	448.3	433.5
75°	2924.9	2116.6	365.0	338.0	323.4	482.6	666.3	556.1	470.4	426.2	416.5
77.5°	1357.1	911.3	311.1	298.9	281.7	453.2	644.3	526.6	443.4	401.7	389.5
80°	632.1	431.1	262.1	259.7	252.3	428.8	614.9	492.4	411.6	377.3	357.6
82.5°	338.0	259.7	213.2	213.2	220.4	399.4	578.1	450.7	370.0	352.8	301.3
85°	178.8	149.4	154.4	166.6	188.6	352.8	529.2	406.7	323.4	269.5	262.1
87.5°	90.6	95.5	95.5	112.6	144.5	286.6	436.1	335.7	274.3	220.4	215.6
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)