

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: P265614

Luminaire Tested: **ARCH-L-AF72-130-D-U-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-130-D-U-T4W-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15381.8 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 133
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

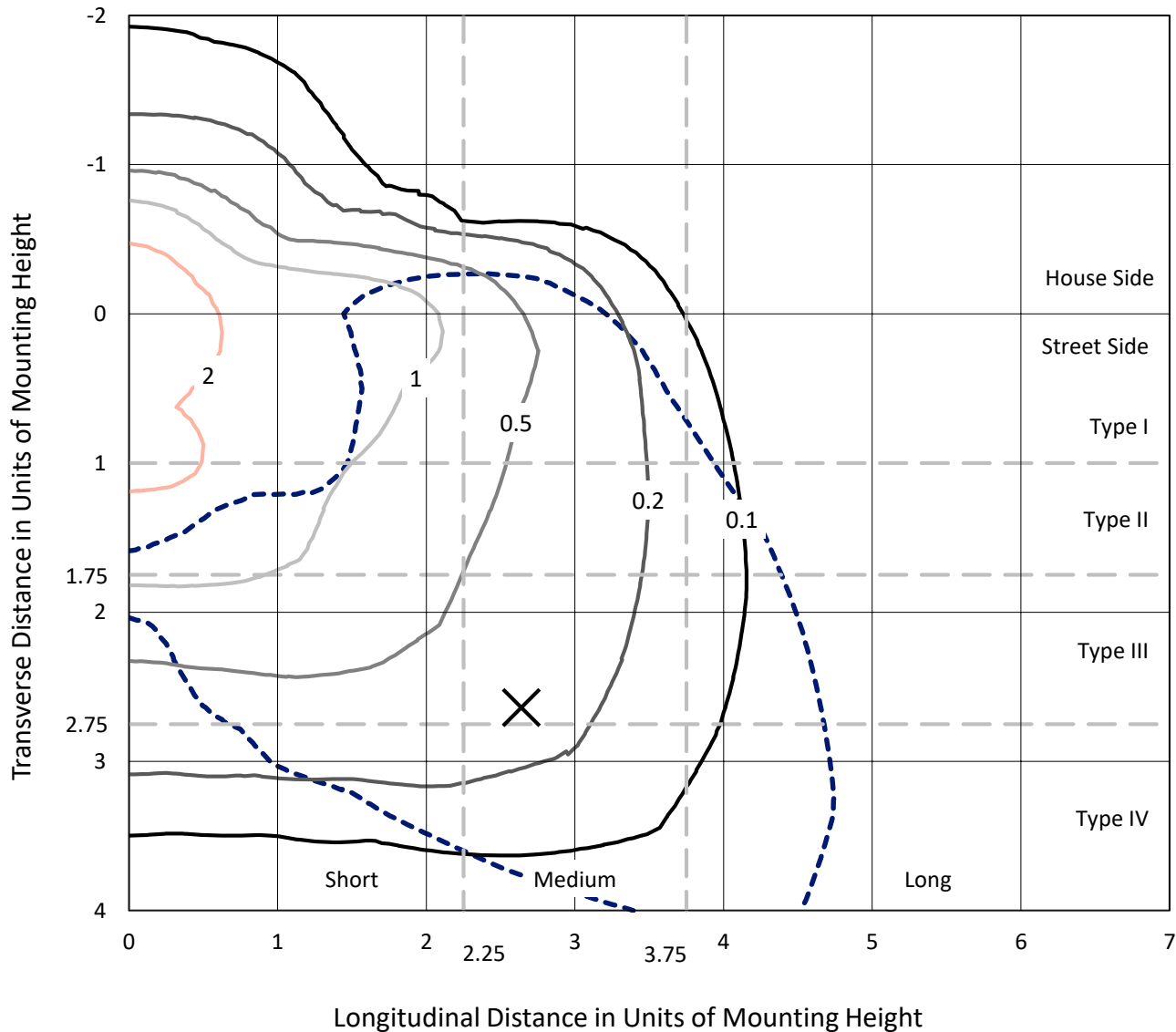


REPORT NUMBER: P265614

CATALOG NUMBER: ARCH-L-AF72-130-D-U-T4W-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

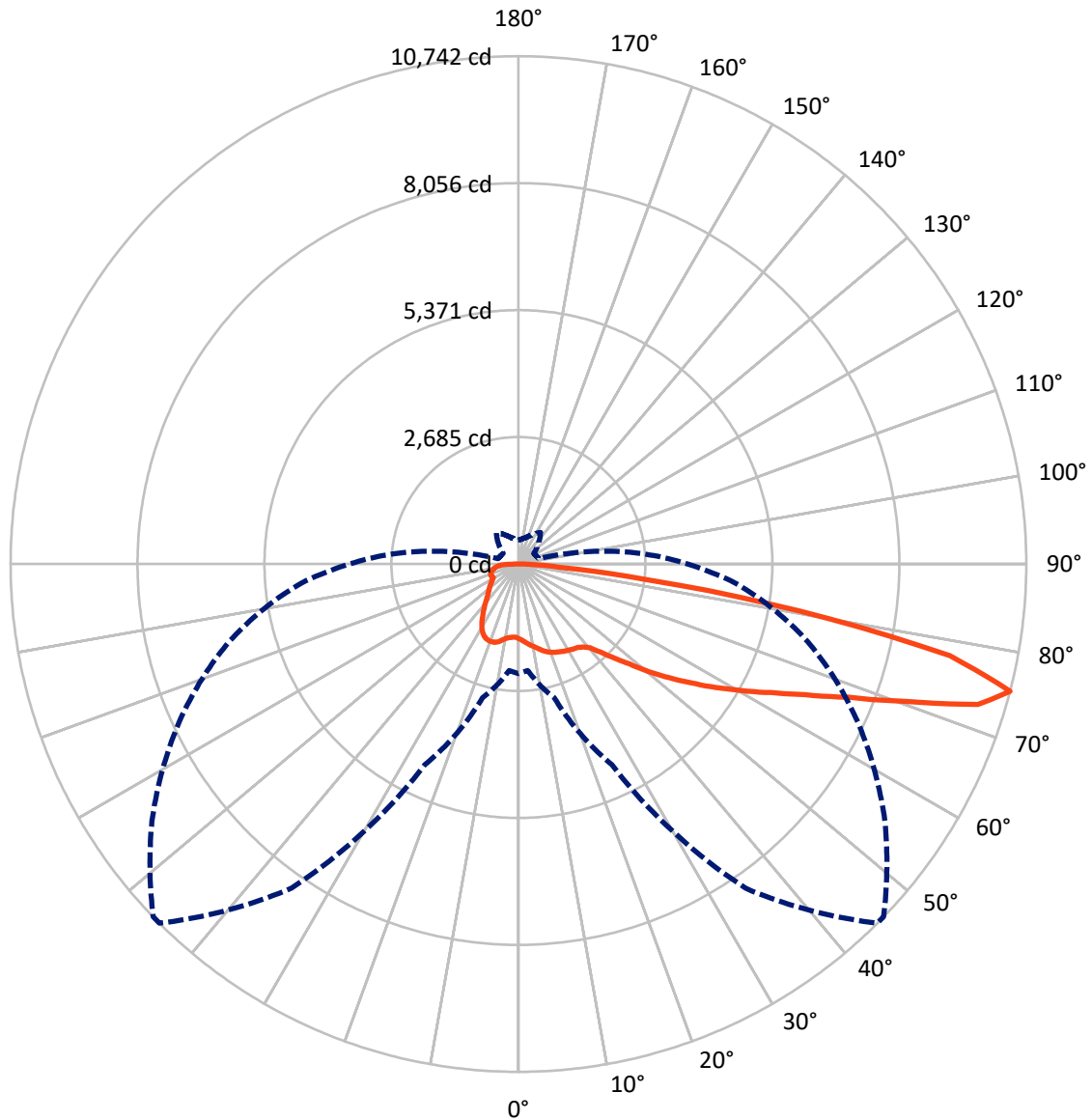


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P265614

CATALOG NUMBER: ARCH-L-AF72-130-D-U-T4W-7027

Luminous Intensity Polar Plot



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



REPORT NUMBER: P265614

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3563.3	0.0	3563.3
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	11818.5	0.0	11818.5
	% Fixture	76.8	0.0	76.8
Total	Lumens	15381.8	0.0	15381.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	1.0
10°-20°	506.4	3.3
20°-30°	869.0	5.6
30°-40°	1215.3	7.9
40°-50°	1782.8	11.6
50°-60°	2777.1	18.1
60°-70°	3996.1	26.0
70°-80°	3481.0	22.6
80°-90°	597.8	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°	15381.8	100.0
0°-180°	15381.8	100.0



REPORT NUMBER: P265614

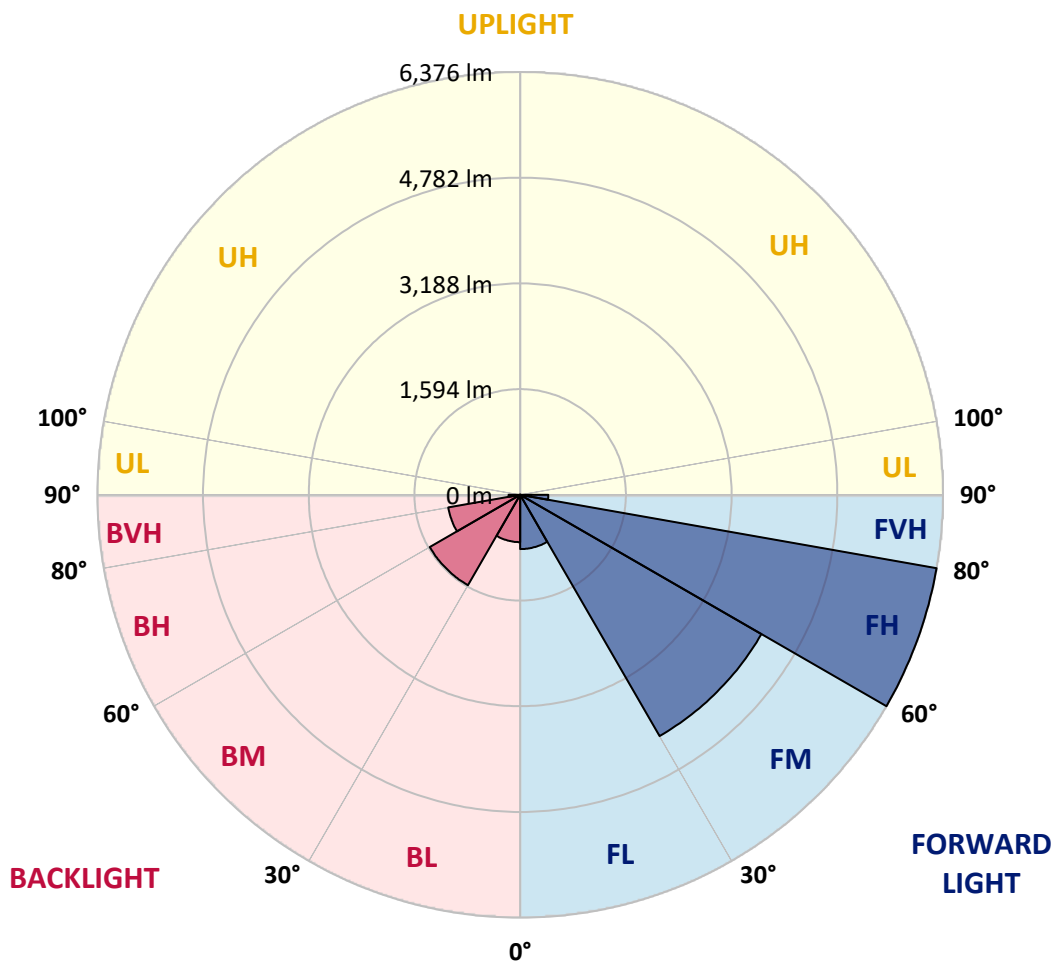
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	817.9	5.3			
FM (30°-60°)	4200.5	27.3			
FH (60°-80°)	6375.9	41.5			G3/7500
FVH (80°-90°)	424.2	2.8			G3/500
BL (0°-30°)	713.7	4.6	B2/1000		
BM (30°-60°)	1574.8	10.2	B2/2500		
BH (60°-80°)	1101.2	7.2	B3/2500		G3/2500
BVH (80°-90°)	173.7	1.1			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium





REPORT NUMBER: P265614

CATALOG NUMBER: ARCH-L-AF72-130-D-U-T4W-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1576.9	1576.9	1576.9	1576.9	1576.9	1576.9	1576.9	1576.9	1576.9	1576.9	1576.9
2.5°	1654.7	1642.7	1642.7	1633.7	1633.7	1618.7	1612.7	1609.8	1594.9	1585.8	1576.9
5°	1750.3	1735.4	1732.4	1711.5	1702.5	1669.6	1666.6	1645.7	1618.7	1591.7	1570.9
7.5°	1837.2	1828.2	1813.1	1792.3	1765.3	1723.5	1720.4	1687.6	1642.7	1606.8	1576.9
10°	1899.9	1894.0	1873.1	1846.1	1816.3	1774.3	1771.4	1735.4	1681.5	1639.6	1597.7
12.5°	1974.8	1965.9	1938.9	1903.0	1870.1	1831.1	1828.2	1798.2	1738.4	1684.6	1630.8
15°	2046.6	2034.7	2001.8	1965.9	1929.9	1897.0	1897.0	1864.2	1801.2	1738.4	1675.6
17.5°	2082.5	2076.5	2043.6	2004.7	1974.8	1950.8	1947.9	1917.9	1855.1	1789.3	1720.4
20°	2094.5	2097.5	2067.5	2025.7	2004.7	1992.8	1989.7	1968.8	1899.9	1837.2	1771.4
22.5°	2091.6	2100.4	2076.5	2031.6	2025.7	2025.7	2025.7	2001.8	1947.9	1885.1	1819.2
25°	2103.6	2115.4	2097.5	2043.6	2043.6	2055.6	2055.6	2043.6	1995.8	1941.9	1876.1
27.5°	2145.3	2154.3	2139.4	2064.6	2067.5	2085.5	2082.5	2085.5	2055.6	2004.7	1938.9
30°	2196.3	2208.3	2190.2	2097.5	2094.5	2112.5	2112.5	2127.4	2106.4	2052.5	1998.8
32.5°	2333.8	2330.8	2274.0	2133.4	2124.4	2142.4	2142.4	2157.3	2145.3	2103.6	2052.5
35°	2743.8	2698.9	2573.3	2250.1	2160.3	2169.2	2169.2	2196.3	2202.3	2169.2	2124.4
37.5°	3162.8	3147.8	3052.0	2561.2	2291.9	2226.1	2223.1	2262.0	2289.1	2262.0	2232.1
40°	3584.5	3572.6	3551.7	2977.2	2567.3	2327.9	2319.0	2351.9	2399.7	2381.8	2363.8
42.5°	3976.5	3970.6	3991.4	3387.1	2917.3	2546.2	2519.3	2480.5	2549.3	2543.3	2543.3
45°	4284.7	4299.6	4311.7	3770.0	3297.3	2827.5	2794.6	2662.9	2755.7	2779.6	2797.6
47.5°	4458.3	4470.2	4512.1	4144.2	3677.3	3153.7	3129.8	2914.3	3037.0	3108.9	3159.7
50°	4706.6	4673.7	4709.6	4509.1	4135.1	3578.6	3512.7	3252.5	3408.0	3533.8	3653.3
52.5°	4946.0	4892.1	4922.1	4931.1	4655.7	3994.6	3925.7	3650.4	3844.8	4042.4	4254.8
55°	5161.4	5158.4	5188.3	5341.0	5158.4	4440.3	4362.4	4090.3	4371.5	4584.0	4943.1
57.5°	5334.9	5364.9	5496.5	5816.6	5738.9	4925.0	4838.4	4601.8	4934.0	5146.5	5741.8
60°	5538.4	5586.3	5804.7	6220.7	6268.6	5433.7	5343.9	5173.3	5511.6	5727.0	6666.4
62.5°	5607.2	5676.1	6124.9	6645.5	6822.1	5990.3	5909.4	5795.8	6118.9	6313.4	7588.1
65°	5149.4	5281.0	6301.4	6863.9	7417.5	6660.5	6591.7	6492.9	6723.4	6852.0	8213.5
67.5°	5023.9	5083.6	5957.3	7178.0	7976.9	7522.1	7453.3	7282.7	7288.8	7234.9	8416.8
70°	4847.3	4913.1	5604.3	7414.5	8778.9	8701.2	8617.4	8114.7	7806.5	7480.4	8015.8
72.5°	4129.1	4108.2	4829.3	6777.2	9164.9	10161.3	10062.5	9009.3	8189.5	7267.8	6765.1
75°	2319.0	2259.1	2929.4	4688.7	8369.0	10741.8	10738.8	9461.0	7920.1	6331.3	4604.9
77.5°	673.2	655.3	966.4	1965.9	5634.2	9332.4	9446.1	8533.5	6609.5	4547.9	2528.4
80°	317.1	323.1	415.9	649.3	2405.8	6023.1	6349.3	5619.2	3949.6	2097.5	1044.3
82.5°	200.5	203.5	284.3	418.9	1017.3	2734.8	3004.1	2528.4	1564.8	906.6	460.8
85°	125.7	125.7	188.6	275.3	607.4	873.7	948.5	861.7	670.2	493.7	251.3
87.5°	68.8	68.8	113.6	158.6	332.2	281.3	290.2	344.1	418.9	302.2	125.7
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: P265614

CATALOG NUMBER: ARCH-L-AF72-130-D-U-T4W-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1576.9	1576.9	1576.9	1576.9	1576.9	1576.9	1576.9	1576.9	1576.9	1576.9	1576.9
2.5°	1573.9	1567.9	1558.9	1556.0	1552.9	1549.9	1552.9	1558.9	1552.9	1552.9	1556.0
5°	1564.8	1558.9	1546.9	1546.9	1549.9	1552.9	1567.9	1576.9	1579.8	1579.8	1579.8
7.5°	1564.8	1556.0	1546.9	1549.9	1556.0	1567.9	1591.7	1606.8	1618.7	1621.7	1621.7
10°	1579.8	1567.9	1562.0	1567.9	1585.8	1594.9	1618.7	1642.7	1657.6	1663.7	1663.7
12.5°	1606.8	1594.9	1594.9	1606.8	1630.8	1642.7	1663.7	1681.5	1699.6	1708.4	1708.4
15°	1651.7	1636.7	1639.6	1660.6	1687.6	1699.6	1714.4	1720.4	1735.4	1747.5	1747.5
17.5°	1693.6	1678.7	1684.6	1708.4	1726.5	1732.4	1741.5	1738.4	1744.4	1753.4	1756.4
20°	1741.5	1726.5	1729.4	1744.4	1747.5	1741.5	1741.5	1732.4	1729.4	1744.4	1750.3
22.5°	1789.3	1774.3	1771.4	1762.4	1747.5	1732.4	1723.5	1714.4	1708.4	1723.5	1729.4
25°	1846.1	1825.1	1810.3	1771.4	1732.4	1705.5	1693.6	1687.6	1684.6	1699.6	1705.5
27.5°	1909.0	1888.1	1843.1	1759.4	1696.4	1651.7	1642.7	1642.7	1648.7	1657.6	1663.7
30°	1968.8	1947.9	1867.0	1732.4	1633.7	1567.9	1558.9	1567.9	1582.9	1591.7	1600.8
32.5°	2028.6	2007.7	1882.0	1690.5	1541.0	1457.2	1451.2	1466.2	1490.1	1496.0	1502.1
35°	2109.4	2088.5	1899.9	1630.8	1424.3	1334.5	1328.6	1337.4	1358.4	1367.4	1376.4
37.5°	2223.1	2211.2	1927.0	1564.8	1316.6	1217.8	1199.9	1193.8	1205.9	1202.8	1214.8
40°	2372.8	2381.8	1974.8	1478.2	1211.9	1110.0	1071.1	1053.3	1041.2	1017.3	1029.3
42.5°	2591.3	2597.2	2028.6	1379.3	1122.1	1008.3	957.5	924.5	900.6	861.7	867.8
45°	2911.3	2860.5	2091.6	1274.7	1041.2	927.6	867.8	828.9	795.9	763.0	766.0
47.5°	3336.2	3180.5	2160.3	1187.9	960.5	861.7	807.8	763.0	724.2	697.2	700.1
50°	3859.8	3578.6	2229.1	1107.2	879.7	810.9	763.0	715.1	676.2	649.3	646.3
52.5°	4551.1	4057.4	2274.0	1017.3	799.0	766.0	724.2	679.2	631.4	598.5	595.4
55°	5269.2	4613.9	2313.0	909.7	721.1	715.1	694.2	643.2	586.5	544.6	538.5
57.5°	6059.1	5209.4	2342.8	804.9	661.2	673.2	667.3	607.4	544.6	505.7	502.7
60°	6777.2	5825.7	2247.1	712.1	607.4	631.4	637.3	586.5	553.5	562.5	565.6
62.5°	7501.2	6301.4	1882.0	643.2	571.5	604.4	655.3	652.3	637.3	652.3	655.3
65°	7761.5	6400.2	1334.5	586.5	535.6	616.3	712.1	706.2	637.3	610.4	604.4
67.5°	7614.9	6106.9	897.6	541.6	508.7	631.4	772.0	706.2	613.5	577.5	565.6
70°	6917.8	5385.8	658.3	496.8	484.7	628.4	804.9	703.2	601.4	562.5	547.5
72.5°	5517.5	4156.1	529.6	454.8	448.9	613.5	822.8	697.2	589.5	547.5	529.6
75°	3572.6	2585.2	445.7	413.0	395.0	589.5	813.9	679.2	574.5	520.7	508.7
77.5°	1657.6	1113.1	380.1	365.0	344.1	553.5	786.9	643.2	541.6	490.7	475.7
80°	772.0	526.6	320.2	317.1	308.2	523.6	751.1	601.4	502.7	460.8	436.8
82.5°	413.0	317.1	260.2	260.2	269.3	487.7	706.2	550.5	451.8	430.8	368.0
85°	218.4	182.5	188.6	203.5	230.3	430.8	646.3	496.8	395.0	329.0	320.2
87.5°	110.8	116.7	116.7	137.6	176.5	350.1	532.5	409.9	335.1	269.3	263.4
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)