

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: P237066

Luminaire Tested: **ARCH-L-AF72-130-D-U-T3-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-130-D-U-T3-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17195.2 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

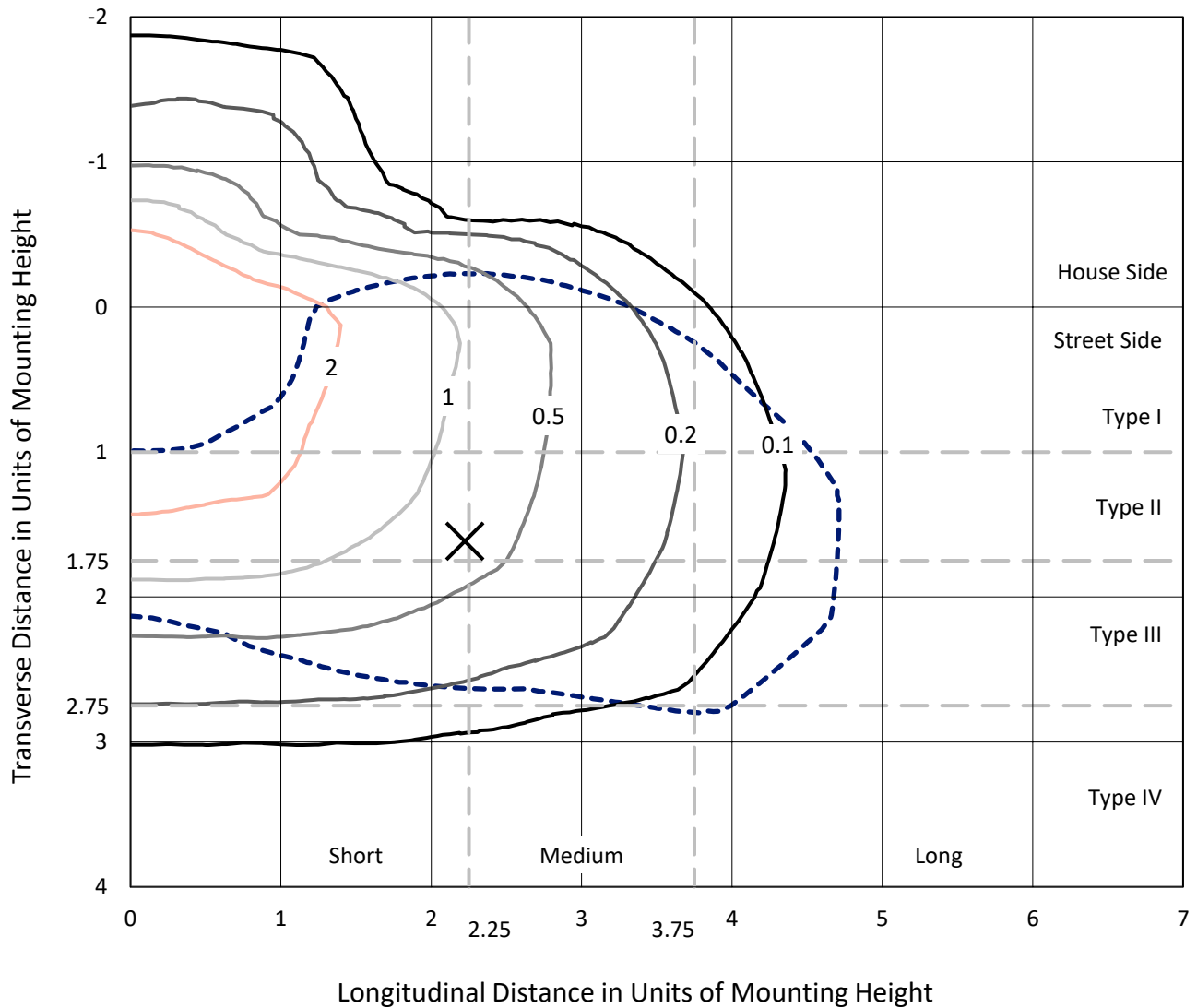
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

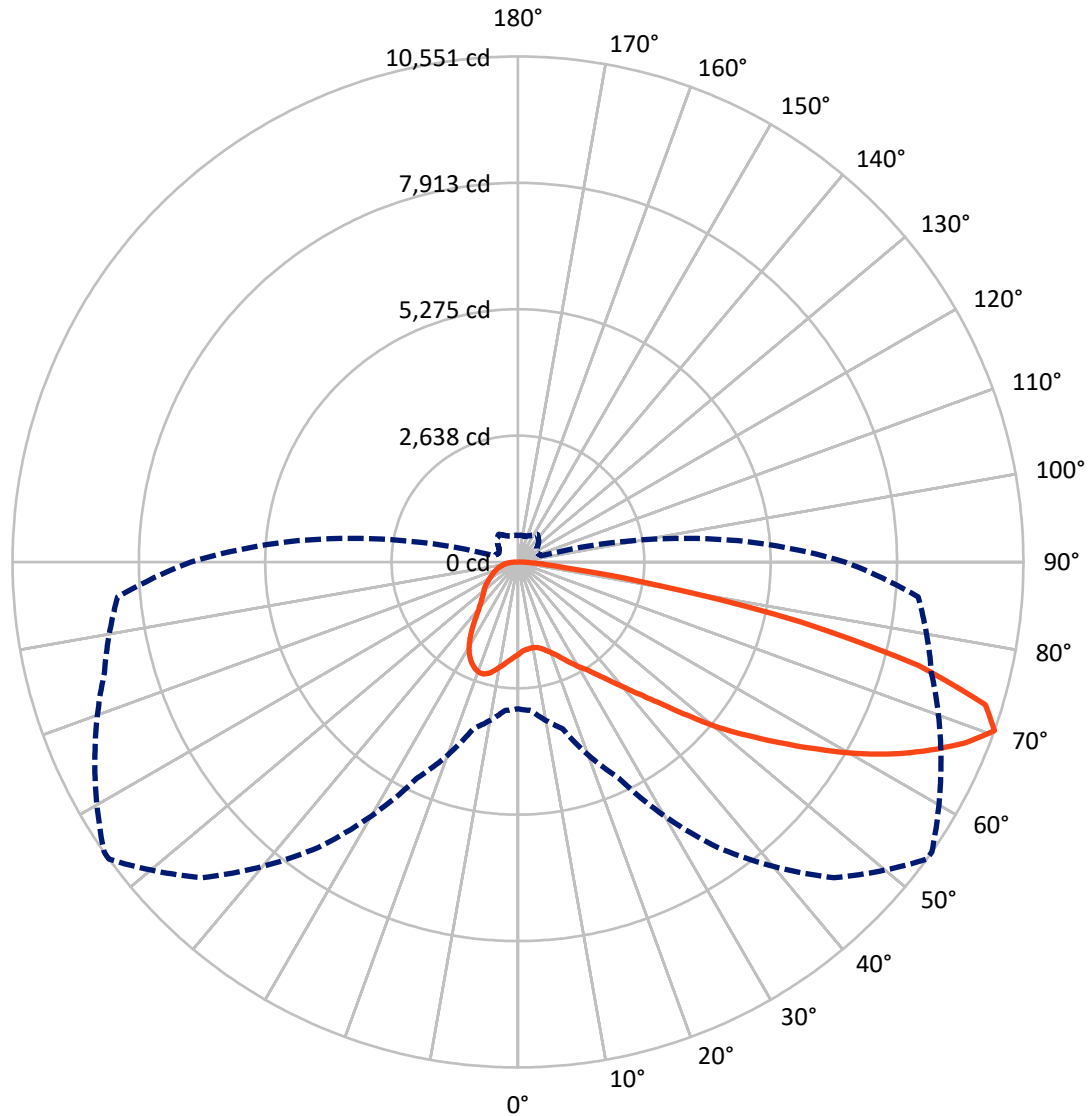
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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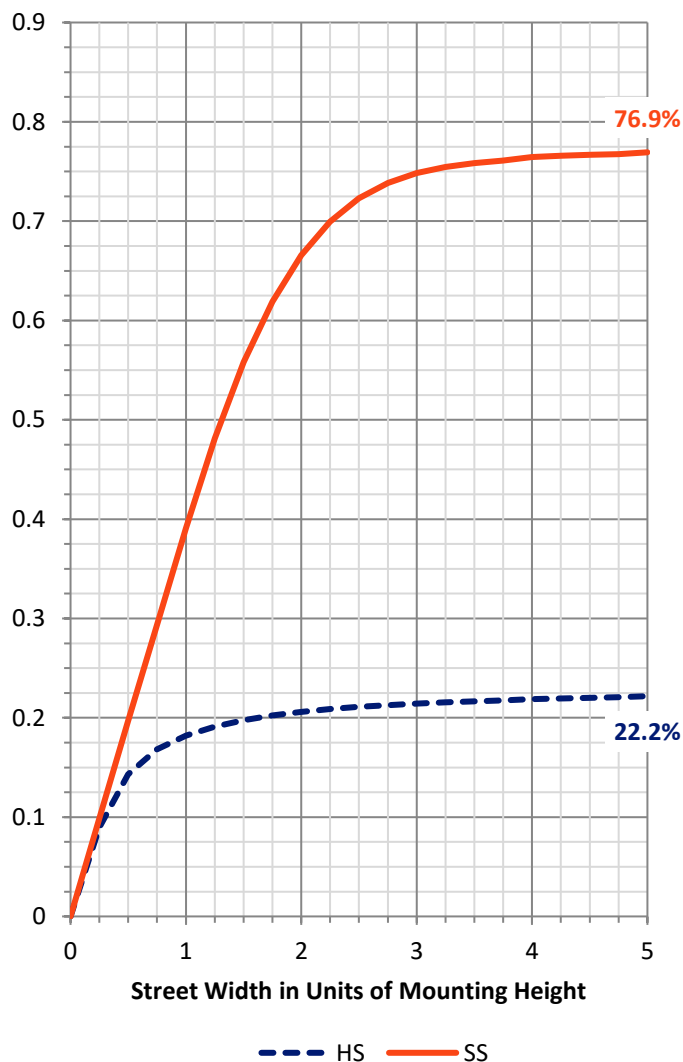
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3899.8	0.0	3899.8
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	13295.4	0.0	13295.4
	% Fixture	77.3	0.0	77.3
Total	Lumens	17195.2	0.0	17195.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	1.1
10°-20°	603.3	3.5
20°-30°	1048.1	6.1
30°-40°	1531.6	8.9
40°-50°	2403.8	14.0
50°-60°	3696.5	21.5
60°-70°	4516.3	26.3
70°-80°	2800.1	16.3
80°-90°	406.8	2.4
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°	17195.2	100.0
0°-180°	17195.2	100.0

Coefficient of Utilization



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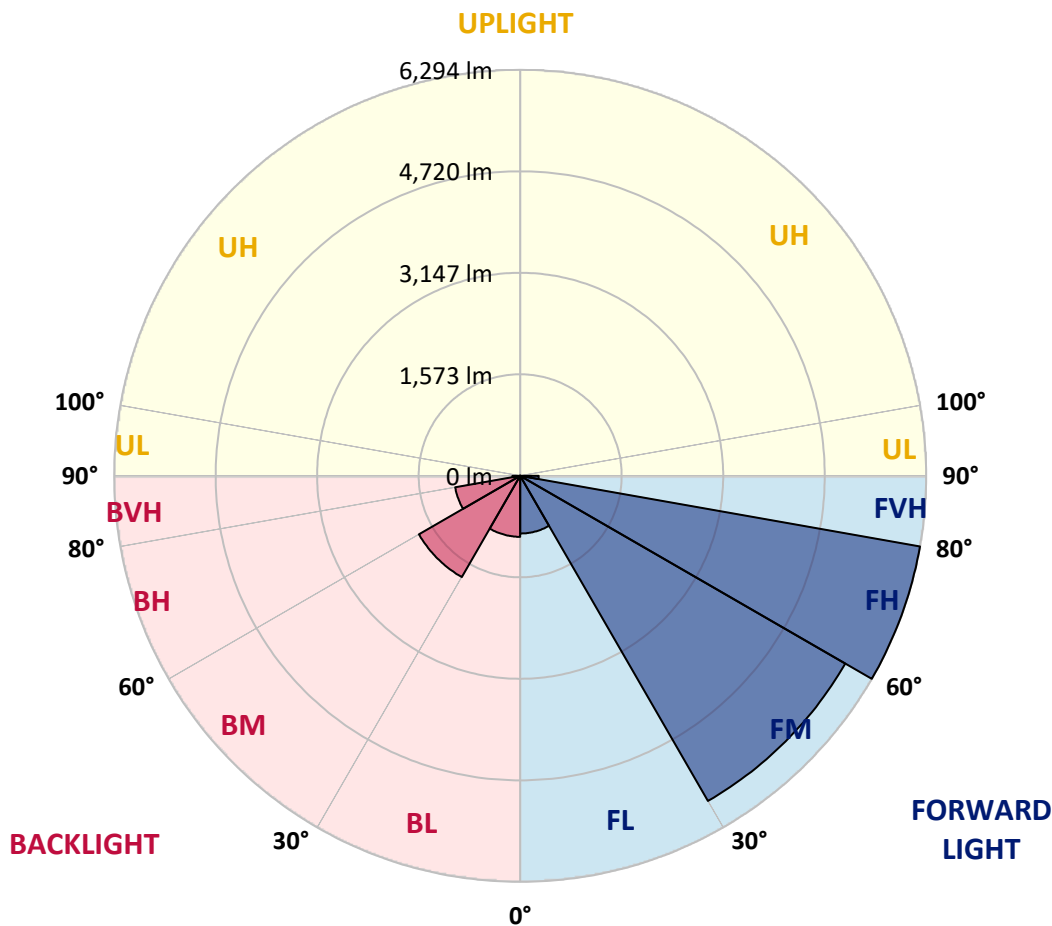
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.7	5.2			
FM (30°-60°)	5819.8	33.8			
FH (60°-80°)	6293.7	36.6			G3/7500
FVH (80°-90°)	287.2	1.7			G3/500
BL (0°-30°)	945.5	5.5	B2/1000		
BM (30°-60°)	1812.2	10.5	B2/2500		
BH (60°-80°)	1022.6	5.9	B3/2500		G3/2500
BVH (80°-90°)	119.5	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8
2.5°	1848.2	1841.9	1841.9	1851.4	1854.5	1864.0	1864.0	1867.1	1876.5	1892.3	1911.2
5°	1791.6	1788.3	1791.6	1804.2	1810.4	1829.3	1835.7	1838.9	1857.6	1882.9	1911.2
7.5°	1734.9	1731.8	1738.0	1756.9	1775.8	1804.2	1819.9	1823.0	1851.4	1886.1	1923.8
10°	1716.0	1712.8	1722.3	1738.0	1756.9	1788.3	1813.6	1816.8	1857.6	1898.6	1952.1
12.5°	1741.1	1738.0	1747.5	1763.2	1782.1	1804.2	1832.5	1835.7	1889.2	1942.7	1999.3
15°	1804.2	1804.2	1807.2	1816.8	1835.7	1854.5	1879.7	1882.9	1939.6	2002.5	2059.2
17.5°	1901.7	1895.4	1895.4	1892.3	1904.9	1914.3	1945.8	1948.9	2008.8	2065.4	2122.2
20°	2021.4	2018.2	2005.7	1989.9	1986.8	1993.1	2024.6	2027.8	2087.5	2134.7	2188.3
22.5°	2166.3	2169.4	2141.1	2106.4	2090.6	2100.1	2128.5	2131.6	2175.7	2216.7	2263.9
25°	2358.3	2348.8	2307.9	2257.6	2226.0	2226.0	2254.4	2254.4	2295.3	2320.5	2352.1
27.5°	2541.0	2522.0	2484.2	2411.8	2361.4	2370.9	2399.3	2399.3	2437.0	2446.5	2462.1
30°	2739.2	2720.4	2673.1	2581.9	2515.7	2509.4	2544.1	2541.0	2591.3	2588.2	2575.6
32.5°	2981.6	2972.3	2893.6	2777.1	2688.9	2666.9	2698.3	2701.6	2733.0	2723.5	2682.7
35°	3321.8	3318.6	3246.2	3041.6	2925.1	2884.1	2903.0	2903.0	2925.1	2899.8	2830.6
37.5°	3750.0	3756.4	3693.3	3391.1	3227.3	3158.0	3161.2	3158.0	3164.3	3136.0	3063.6
40°	4178.2	4193.9	4190.7	3825.6	3617.8	3498.2	3454.0	3447.6	3463.5	3450.9	3381.6
42.5°	4741.9	4779.5	4691.4	4360.9	4127.9	3926.3	3806.7	3791.0	3825.6	3841.3	3775.1
45°	5327.5	5314.8	5176.2	4937.0	4726.0	4467.8	4241.2	4216.0	4241.2	4288.4	4219.1
47.5°	5632.9	5623.3	5588.8	5469.1	5437.7	5141.6	4798.4	4776.5	4729.2	4795.3	4713.5
50°	6136.6	6146.1	6004.4	5991.8	6124.1	5960.3	5428.2	5377.8	5292.8	5346.4	5277.1
52.5°	6501.9	6460.9	6372.8	6483.0	6895.5	6807.3	6020.1	5998.2	5919.3	5906.8	5875.3
55°	6649.8	6649.8	6665.6	6920.6	7509.4	7392.9	6662.4	6684.5	6577.4	6489.2	6530.2
57.5°	6694.0	6712.8	6848.3	7270.1	8230.5	7849.5	7370.8	7402.5	7248.0	7071.8	7200.8
60°	6476.7	6533.3	6857.6	7468.5	8636.6	8334.4	8117.1	8126.6	7903.0	7644.8	7871.5
62.5°	5919.3	5988.6	6568.0	7550.4	8570.6	8831.9	8822.3	8844.4	8539.0	8217.8	8501.3
65°	5236.1	5305.4	5922.5	7320.5	8520.1	9187.6	9467.9	9527.7	9134.1	8702.7	8894.8
67.5°	4231.7	4323.1	4908.7	6545.9	8274.5	9480.4	10072.4	10135.3	9593.8	8954.7	8860.2
70°	3066.7	3110.8	3602.1	4974.8	7273.3	9320.0	10550.9	10547.8	9745.0	8935.8	8387.9
72.5°	1476.7	1511.4	1936.4	3088.8	5201.5	7909.3	10204.6	10264.5	9537.1	8661.8	7308.0
75°	607.7	642.3	784.1	1303.6	2729.9	5226.6	8649.2	8790.9	8661.8	7773.9	5717.9
77.5°	377.8	390.4	459.7	673.8	1246.8	2440.2	6054.8	6246.8	6864.0	6228.0	3775.1
80°	283.4	292.9	343.2	472.3	787.1	900.6	3007.0	3249.4	4159.3	3573.7	1709.7
82.5°	236.1	239.3	273.9	343.2	535.3	516.4	963.4	1073.7	1939.6	1363.3	588.8
85°	220.3	226.7	245.7	245.7	340.1	324.3	399.9	418.8	563.6	466.0	204.7
87.5°	113.3	107.1	217.2	192.1	176.4	157.5	170.0	182.6	211.0	223.6	91.3
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°	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8
2.5°	1917.5	1926.9	1942.7	1958.5	1977.4	1999.3	2012.0	2027.8	2040.3	2034.0	2030.8
5°	1926.9	1942.7	1977.4	2008.8	2046.7	2090.6	2119.0	2150.5	2175.7	2182.0	2172.5
7.5°	1942.7	1971.0	2018.2	2075.0	2125.3	2182.0	2226.0	2270.2	2301.6	2307.9	2307.9
10°	1980.5	2012.0	2075.0	2150.5	2210.4	2270.2	2320.5	2355.2	2383.5	2396.0	2396.0
12.5°	2034.0	2071.8	2147.4	2238.6	2304.9	2361.4	2389.8	2405.6	2418.1	2430.7	2433.9
15°	2097.0	2137.8	2229.2	2326.7	2396.0	2424.5	2424.5	2421.3	2421.3	2427.5	2433.9
17.5°	2159.9	2204.0	2298.5	2402.4	2446.5	2430.7	2408.7	2399.3	2392.9	2389.8	2399.3
20°	2226.0	2270.2	2364.6	2462.1	2449.6	2383.5	2352.1	2330.0	2311.1	2301.6	2314.2
22.5°	2298.5	2339.5	2437.0	2503.1	2408.7	2307.9	2248.1	2213.5	2182.0	2163.2	2175.7
25°	2383.5	2424.5	2518.9	2515.7	2336.3	2194.6	2100.1	2043.4	2008.8	1989.9	1989.9
27.5°	2484.2	2518.9	2610.2	2484.2	2235.6	2043.4	1904.9	1851.4	1841.9	1826.2	1826.2
30°	2588.2	2616.5	2695.2	2411.8	2097.0	1845.1	1693.9	1668.7	1671.8	1656.2	1659.3
32.5°	2695.2	2723.5	2745.5	2304.9	1917.5	1621.5	1520.8	1501.9	1498.7	1486.2	1473.6
35°	2846.3	2887.2	2751.9	2159.9	1700.3	1435.7	1363.3	1344.4	1325.6	1281.5	1281.5
37.5°	3076.2	3120.2	2736.2	1980.5	1476.7	1290.9	1224.8	1199.6	1168.1	1124.1	1108.3
40°	3391.1	3391.1	2701.6	1779.0	1297.2	1174.4	1111.5	1079.9	1045.3	1001.3	991.8
42.5°	3762.6	3674.4	2648.0	1574.3	1165.0	1095.8	1039.0	1004.4	963.4	913.1	906.9
45°	4197.0	3957.8	2572.4	1391.6	1067.4	1048.5	1013.8	954.1	884.8	831.3	821.7
47.5°	4619.1	4212.8	2500.0	1262.6	985.5	1029.6	1001.3	900.6	806.0	730.5	721.0
50°	5081.8	4439.5	2414.9	1155.5	922.5	1016.9	985.5	821.7	717.9	664.4	658.1
52.5°	5544.7	4669.4	2323.6	1042.3	869.0	991.8	947.8	765.2	714.8	642.3	632.8
55°	6032.8	4937.0	2216.7	916.2	806.0	941.5	897.3	762.0	736.7	642.3	620.3
57.5°	6508.1	5233.0	2043.4	793.4	736.7	865.9	878.5	743.1	689.5	636.0	610.9
60°	7034.0	5547.8	1756.9	689.5	677.0	802.9	853.4	702.1	636.0	617.1	604.5
62.5°	7455.9	5831.1	1372.9	617.1	626.6	752.5	821.7	677.0	613.9	598.2	595.1
65°	7638.6	5837.5	985.5	554.2	576.3	705.3	790.3	654.9	595.1	588.8	585.6
67.5°	7446.4	5516.4	692.7	494.3	522.7	661.2	749.4	632.8	576.3	579.3	573.1
70°	6826.2	4839.4	507.0	437.7	472.3	613.9	705.3	604.5	554.2	560.5	551.0
72.5°	5711.5	3772.0	406.1	390.4	431.3	563.6	661.2	573.1	519.5	522.7	503.8
75°	4219.1	2500.0	340.1	349.5	384.1	516.4	604.5	532.1	481.8	469.2	456.6
77.5°	2509.4	1284.7	280.2	305.4	343.2	459.7	541.6	481.8	440.8	418.8	409.2
80°	1035.9	519.5	229.9	258.2	299.2	409.2	478.5	422.0	393.6	371.5	358.9
82.5°	412.5	255.0	182.6	211.0	251.9	355.7	418.8	371.5	343.2	327.4	292.9
85°	157.5	125.9	122.8	147.9	188.9	273.9	346.4	311.7	289.6	248.8	239.3
87.5°	63.0	56.7	56.7	72.4	107.1	173.1	248.8	217.2	226.7	179.5	182.6
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)