

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: P572874

Luminaire Tested: **ARCH-S-PA2-120-830-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-120-830-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12422 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

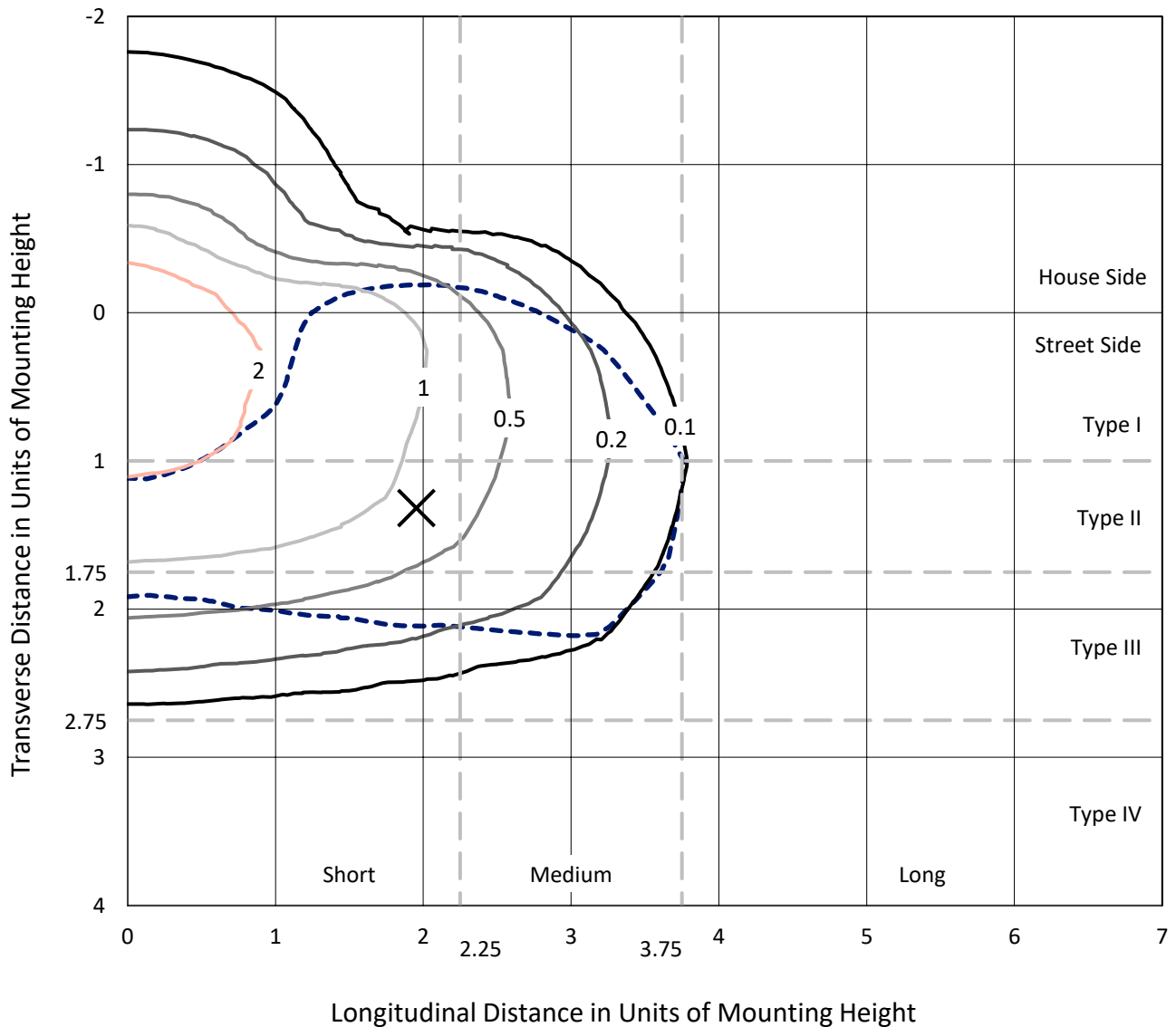
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

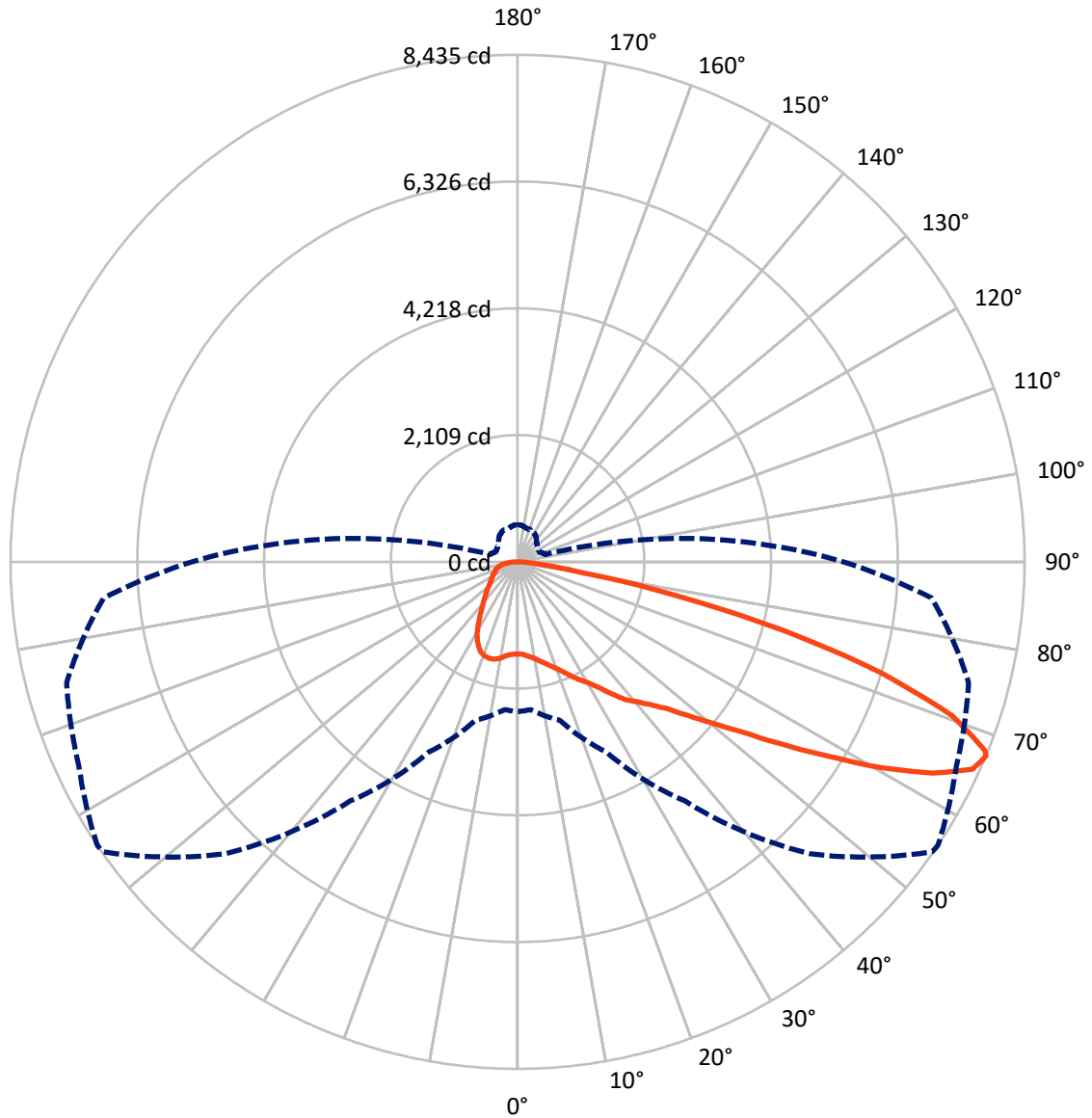
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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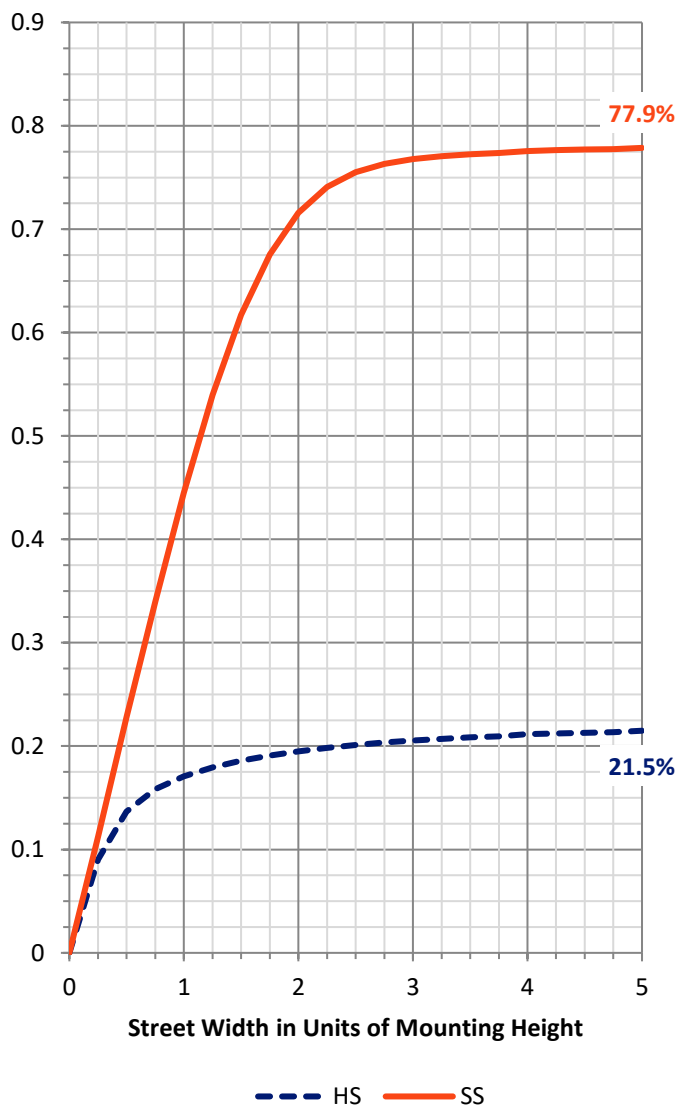
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2717.7	0.0	2717.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9704.3	0.0	9704.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	12422.0	0.0	12422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	1.2
10°-20°	483.9	3.9
20°-30°	842.1	6.8
30°-40°	1234.8	9.9
40°-50°	1806.6	14.5
50°-60°	2823.5	22.7
60°-70°	3355.9	27.0
70°-80°	1528.4	12.3
80°-90°	196.0	1.6
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°	12422.0	100.0
0°-180°	12422.0	100.0

Coefficient of Utilization



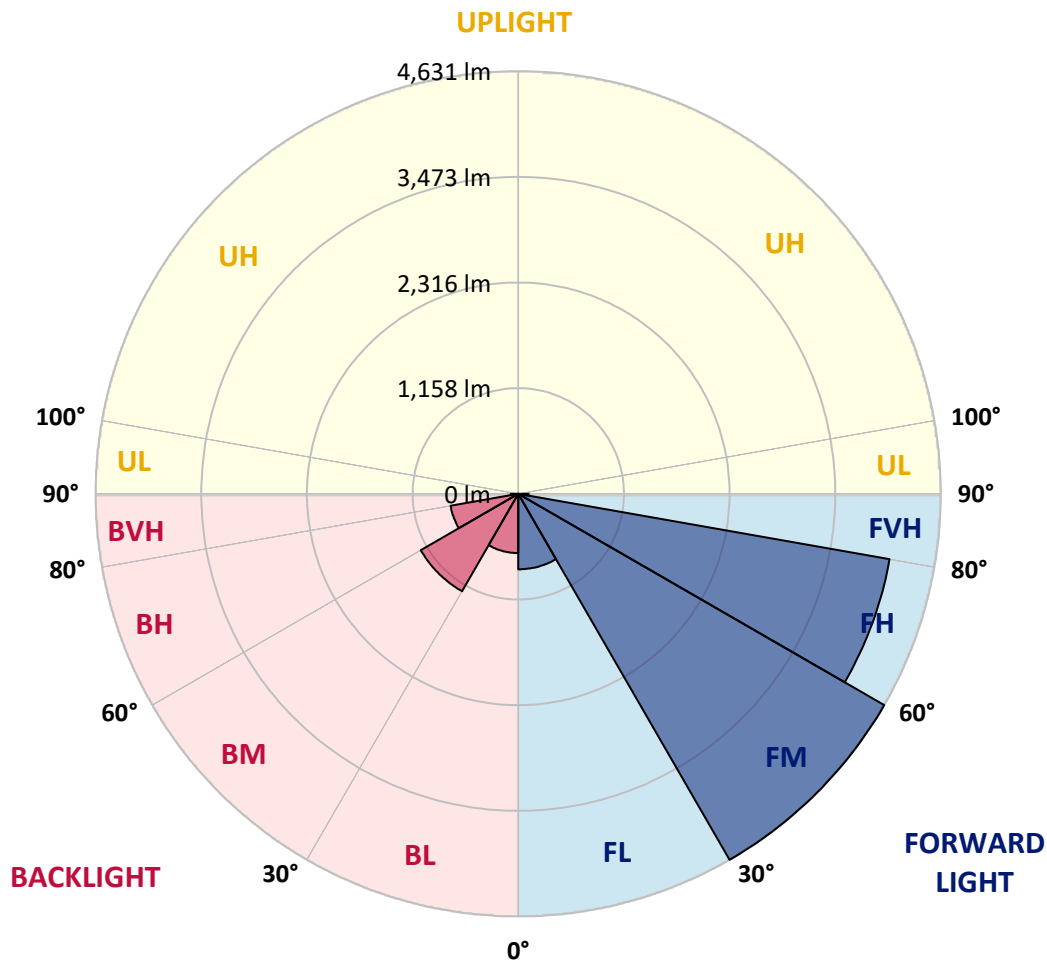
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	827.4	6.7			
FM (30°-60°)	4631.3	37.3			
FH (60°-80°)	4131.4	33.3			G2/5000
FVH (80°-90°)	114.3	0.9			G2/225
BL (0°-30°)	649.5	5.2	B2/1000		
BM (30°-60°)	1233.6	9.9	B2/2500		
BH (60°-80°)	752.9	6.1	B2/1000		G2/1000
BVH (80°-90°)	81.7	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6
2.5°	1557.2	1550.4	1547.1	1550.4	1547.1	1540.4	1543.7	1540.4	1537.0	1533.6	1533.6
5°	1577.4	1570.6	1567.3	1570.6	1574.0	1567.3	1567.3	1567.3	1557.2	1553.8	1547.1
7.5°	1590.8	1580.7	1580.7	1587.4	1594.2	1597.5	1604.3	1600.9	1590.8	1584.1	1570.6
10°	1634.5	1621.1	1621.1	1621.1	1627.8	1634.5	1641.3	1644.6	1641.3	1637.9	1627.8
12.5°	1701.8	1688.3	1688.3	1688.3	1688.3	1685.0	1695.1	1698.4	1705.2	1705.2	1688.3
15°	1792.6	1775.8	1769.1	1755.6	1752.2	1745.5	1759.0	1759.0	1769.1	1772.4	1755.6
17.5°	1880.0	1859.9	1853.1	1839.7	1826.2	1809.4	1822.9	1826.2	1846.4	1849.8	1822.9
20°	1970.8	1964.1	1954.0	1933.9	1910.3	1893.5	1906.9	1903.6	1920.4	1927.1	1893.5
22.5°	2088.6	2071.7	2065.0	2038.1	2011.2	1994.4	1994.4	2001.1	2017.9	2017.9	1967.5
25°	2229.8	2206.3	2189.5	2159.2	2125.6	2105.4	2108.7	2115.5	2139.0	2122.2	2044.8
27.5°	2404.7	2381.2	2357.6	2297.1	2263.4	2223.1	2219.7	2226.5	2263.4	2219.7	2118.8
30°	2569.5	2559.4	2539.2	2492.1	2438.3	2371.1	2340.8	2344.2	2371.1	2310.5	2182.7
32.5°	2710.8	2697.3	2687.2	2653.6	2616.6	2535.9	2495.5	2498.9	2495.5	2421.5	2260.1
35°	2878.9	2858.7	2852.0	2821.7	2774.7	2720.8	2704.0	2697.3	2677.1	2576.2	2361.0
37.5°	3040.4	3020.2	3010.1	2993.3	2956.3	2909.2	2909.2	2905.8	2865.5	2724.2	2461.9
40°	3232.1	3208.5	3178.2	3168.2	3137.9	3104.3	3077.4	3060.5	2989.9	2862.1	2656.9
42.5°	3464.1	3450.7	3433.9	3390.1	3343.0	3336.3	3259.0	3252.2	3201.8	3127.8	2932.7
45°	3797.1	3770.2	3746.6	3733.2	3676.0	3615.5	3507.8	3480.9	3480.9	3464.1	3255.6
47.5°	4133.4	4086.3	4119.9	4109.9	4096.4	4029.1	3820.6	3824.0	3817.3	3861.0	3729.8
50°	4358.7	4331.8	4426.0	4469.7	4563.9	4563.9	4264.6	4227.6	4254.5	4382.3	4214.1
52.5°	4533.6	4516.8	4624.4	4796.0	5075.1	5102.0	4792.6	4715.2	4752.2	4933.9	4866.6
55°	4674.9	4658.1	4782.5	5081.8	5529.1	5693.9	5401.3	5367.7	5293.7	5488.8	5509.0
57.5°	4759.0	4722.0	4910.3	5310.5	5899.1	6279.1	6114.3	6104.3	5932.7	6114.3	6205.1
60°	4631.2	4607.6	4866.6	5404.7	6198.4	6830.7	6951.8	6951.8	6645.7	6743.3	6854.3
62.5°	4217.5	4187.2	4459.6	5186.1	6235.4	7281.4	7782.5	7742.1	7331.8	7328.5	7230.9
65°	3430.5	3393.5	3699.5	4466.4	5767.9	7335.2	8344.2	8320.6	7846.4	7711.9	7254.5
67°	2492.1	2468.6	2730.9	3491.0	4859.9	6867.7	8414.8	8435.0	8051.6	7765.7	6914.8
67.5°	2236.5	2233.2	2451.8	3205.2	4594.2	6696.2	8367.7	8387.9	8048.2	7722.0	6780.3
70°	1042.6	1089.7	1294.8	1836.3	3097.5	5273.5	7594.2	7671.5	7617.7	7217.5	5710.8
72.5°	484.3	504.5	595.3	887.9	1664.8	3400.2	6154.7	6339.7	6575.1	6191.7	4523.5
75°	299.3	306.1	356.5	460.8	783.6	1634.5	4382.3	4584.1	4940.6	4658.1	2892.4
77.5°	235.4	238.8	272.4	329.6	457.4	702.9	2404.7	2656.9	3121.1	2754.5	1456.3
80°	174.9	181.6	208.5	255.6	322.9	359.9	1022.4	1116.6	1506.7	1153.6	605.4
82.5°	127.8	134.5	161.4	185.0	225.3	228.7	417.0	440.6	645.7	467.5	262.3
85°	107.6	107.6	124.4	137.9	151.3	127.8	205.2	201.8	248.9	211.9	104.3
87.5°	50.4	53.8	117.7	87.4	74.0	53.8	60.5	63.9	77.4	84.1	40.4
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°	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6
2.5°	1530.3	1530.3	1530.3	1533.6	1537.0	1537.0	1540.4	1540.4	1543.7	1547.1	1553.8
5°	1543.7	1543.7	1540.4	1543.7	1550.4	1553.8	1560.5	1567.3	1574.0	1580.7	1584.1
7.5°	1570.6	1567.3	1567.3	1567.3	1574.0	1580.7	1590.8	1597.5	1607.6	1611.0	1617.7
10°	1621.1	1614.3	1614.3	1617.7	1621.1	1611.0	1607.6	1604.3	1614.3	1621.1	1627.8
12.5°	1681.6	1674.9	1671.5	1661.4	1648.0	1627.8	1611.0	1597.5	1600.9	1607.6	1617.7
15°	1745.5	1732.1	1725.3	1701.8	1668.2	1624.4	1597.5	1580.7	1580.7	1580.7	1590.8
17.5°	1812.8	1799.3	1772.4	1728.7	1664.8	1604.3	1570.6	1540.4	1526.9	1523.5	1530.3
20°	1876.7	1856.5	1812.8	1745.5	1644.6	1563.9	1520.2	1469.7	1449.5	1436.1	1442.8
22.5°	1937.2	1910.3	1849.8	1745.5	1611.0	1503.4	1426.0	1358.7	1325.1	1318.4	1321.7
25°	2001.1	1967.5	1886.8	1725.3	1537.0	1412.6	1304.9	1234.3	1190.6	1183.9	1193.9
27.5°	2065.0	2014.6	1917.0	1671.5	1452.9	1288.1	1173.8	1106.5	1083.0	1069.5	1072.9
30°	2118.8	2071.7	1947.3	1597.5	1338.6	1143.5	1039.2	1009.0	992.2	985.4	985.4
32.5°	2189.5	2145.7	1967.5	1510.1	1204.0	1012.3	945.1	921.5	908.1	891.3	894.6
35°	2276.9	2236.5	1957.4	1399.1	1076.2	924.9	871.1	837.4	807.2	783.6	780.3
37.5°	2394.6	2364.3	1906.9	1264.6	958.5	861.0	807.2	763.5	719.7	682.7	676.0
40°	2589.7	2519.1	1833.0	1116.6	877.8	810.5	746.6	692.8	639.0	598.7	588.6
42.5°	2838.6	2690.6	1732.1	965.2	810.5	756.7	692.8	622.2	571.7	534.8	534.8
45°	3127.8	2875.6	1611.0	850.9	739.9	702.9	625.6	565.0	534.8	511.2	507.8
47.5°	3470.8	3060.5	1456.3	760.1	682.7	655.8	578.5	541.5	521.3	501.1	497.8
50°	3931.6	3309.4	1341.9	682.7	625.6	602.0	565.0	534.8	514.6	501.1	497.8
52.5°	4459.6	3628.9	1261.2	622.2	578.5	568.4	561.7	538.1	517.9	507.8	504.5
55°	5031.4	4022.4	1183.9	571.7	541.5	554.9	568.4	544.8	531.4	517.9	511.2
57.5°	5569.5	4355.4	1059.4	528.0	514.6	538.1	565.0	548.2	531.4	521.3	517.9
60°	5936.1	4523.5	887.9	487.7	487.7	514.6	554.9	531.4	514.6	517.9	517.9
62.5°	6053.8	4459.6	702.9	450.7	460.8	487.7	524.7	511.2	504.5	521.3	521.3
65°	5878.9	4200.7	561.7	420.4	433.9	454.0	507.8	521.3	541.5	578.5	581.8
67°	5421.5	3783.6	474.2	396.9	410.3	443.9	528.0	575.1	575.1	615.5	615.5
67.5°	5287.0	3642.4	460.8	390.1	407.0	443.9	538.1	588.6	575.1	622.2	622.2
70°	4298.2	2865.5	390.1	370.0	393.5	467.5	581.8	591.9	561.7	605.4	602.0
72.5°	3188.3	2071.7	356.5	349.8	366.6	440.6	578.5	568.4	524.7	538.1	528.0
75°	1970.8	1200.7	329.6	322.9	333.0	390.1	534.8	517.9	467.5	457.4	447.3
77.5°	951.8	608.7	282.5	292.6	302.7	339.7	470.9	454.0	410.3	386.8	383.4
80°	413.7	312.8	242.2	259.0	262.3	289.2	390.1	370.0	329.6	292.6	292.6
82.5°	205.2	174.9	191.7	215.2	208.5	232.1	306.1	272.4	242.2	201.8	195.1
85°	94.2	100.9	141.3	161.4	141.3	144.6	208.5	191.7	151.3	114.3	117.7
87.5°	33.6	47.1	80.7	97.5	70.6	67.3	111.0	80.7	47.1	13.5	16.8
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)