

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: P572892

Luminaire Tested: **ARCH-S-PA2-130-727-U-T3**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572892  
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-PA2-130-727-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13558 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

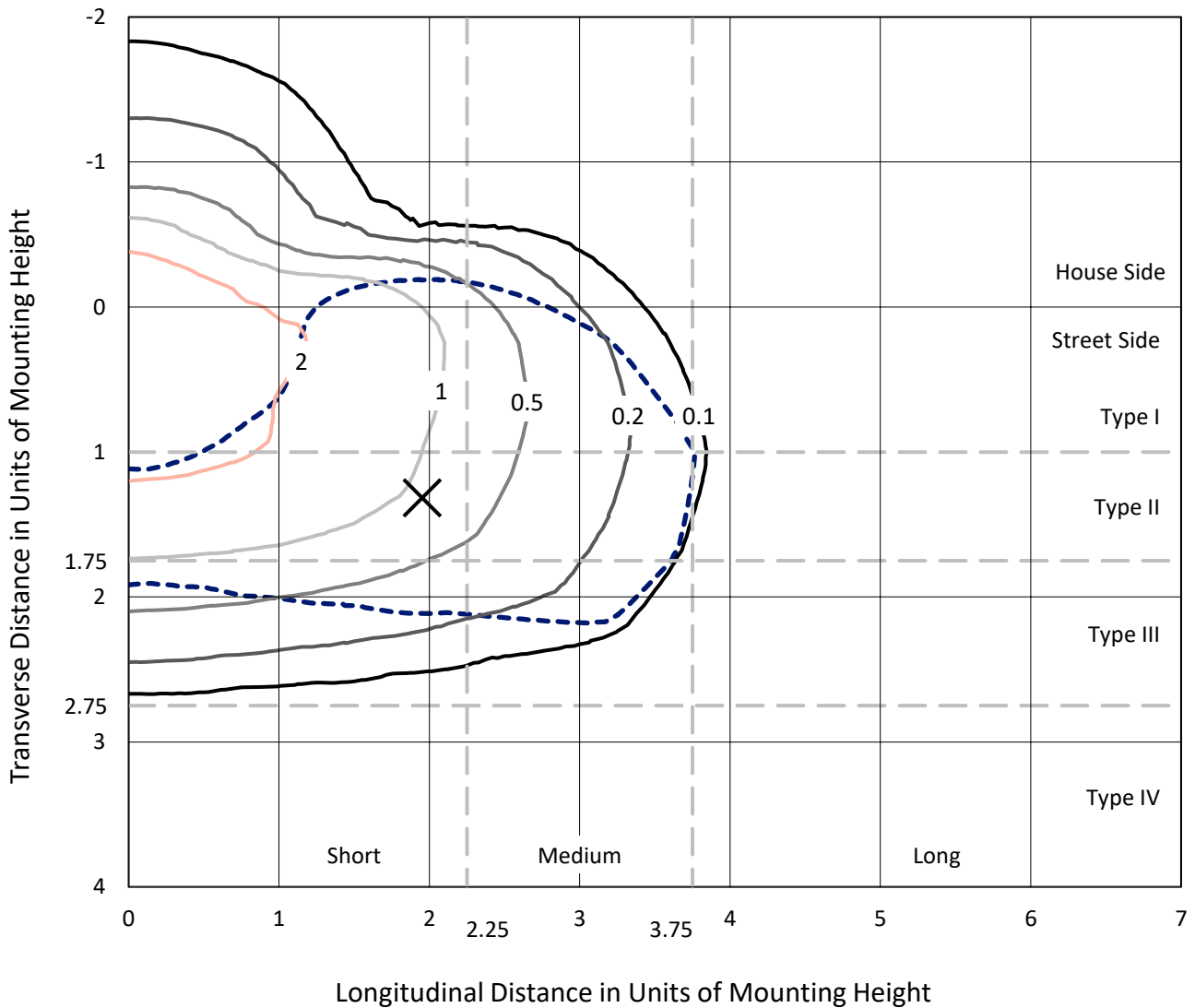
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

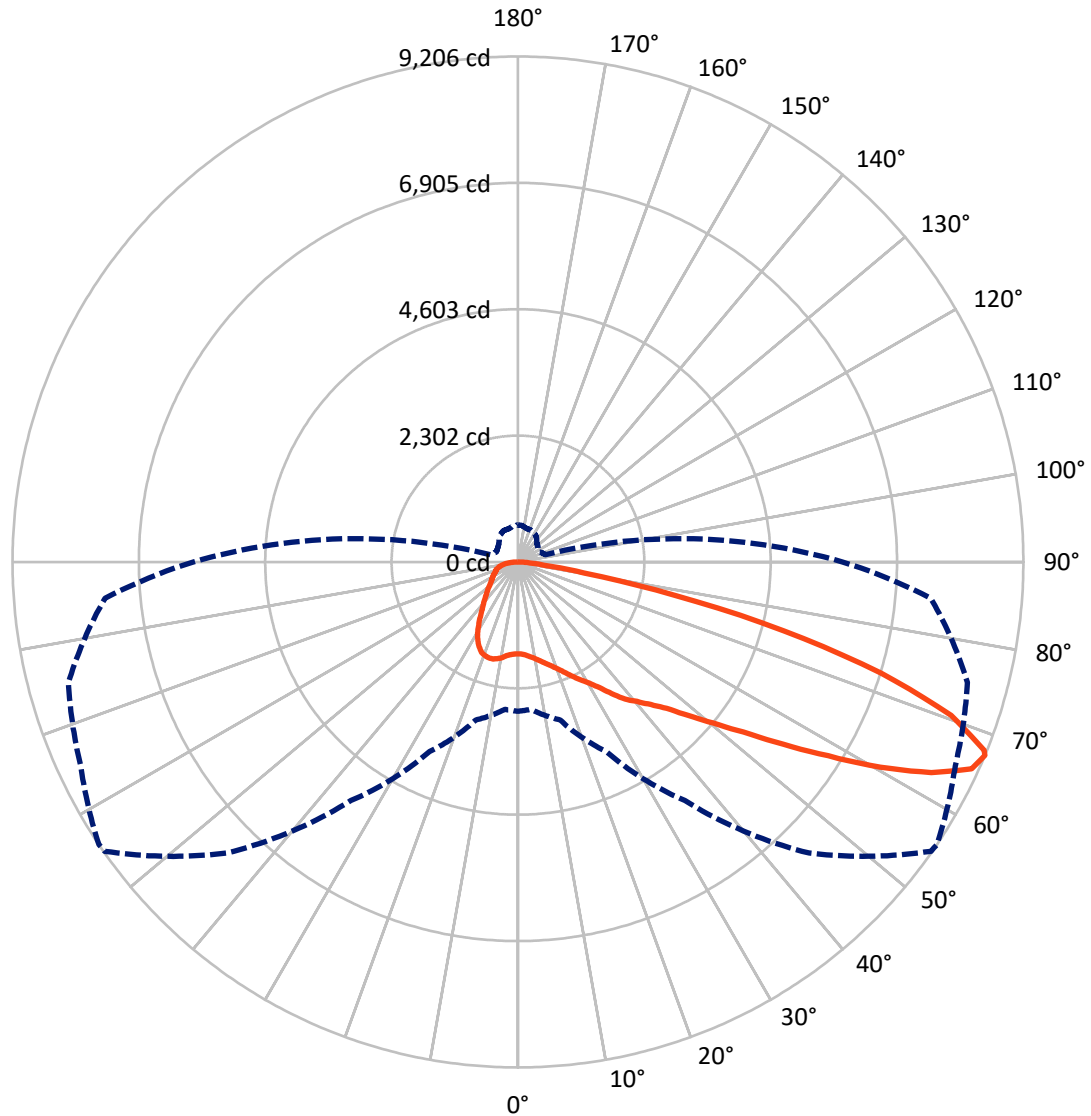
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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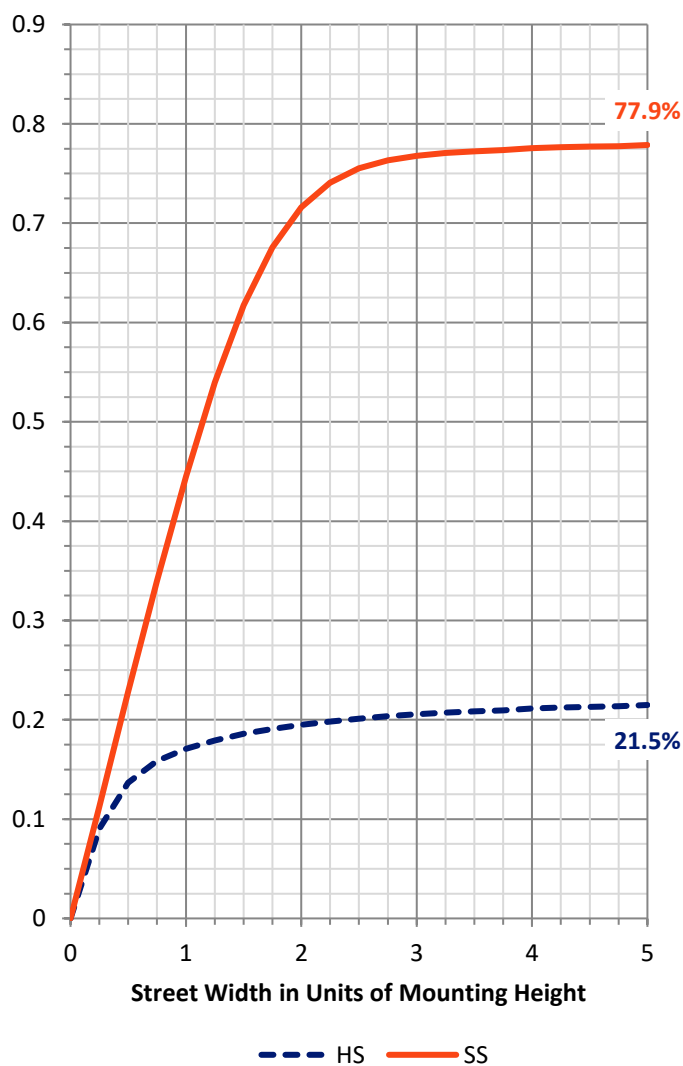
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2966.2	0.0	2966.2
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	10591.8	0.0	10591.8
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	13558.0	0.0	13558.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.7	1.2
10°-20°	528.1	3.9
20°-30°	919.2	6.8
30°-40°	1347.7	9.9
40°-50°	1971.8	14.5
50°-60°	3081.7	22.7
60°-70°	3662.8	27.0
70°-80°	1668.1	12.3
80°-90°	213.9	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°	13558.0	100.0
0°-180°	13558.0	100.0

**Coefficient of Utilization**



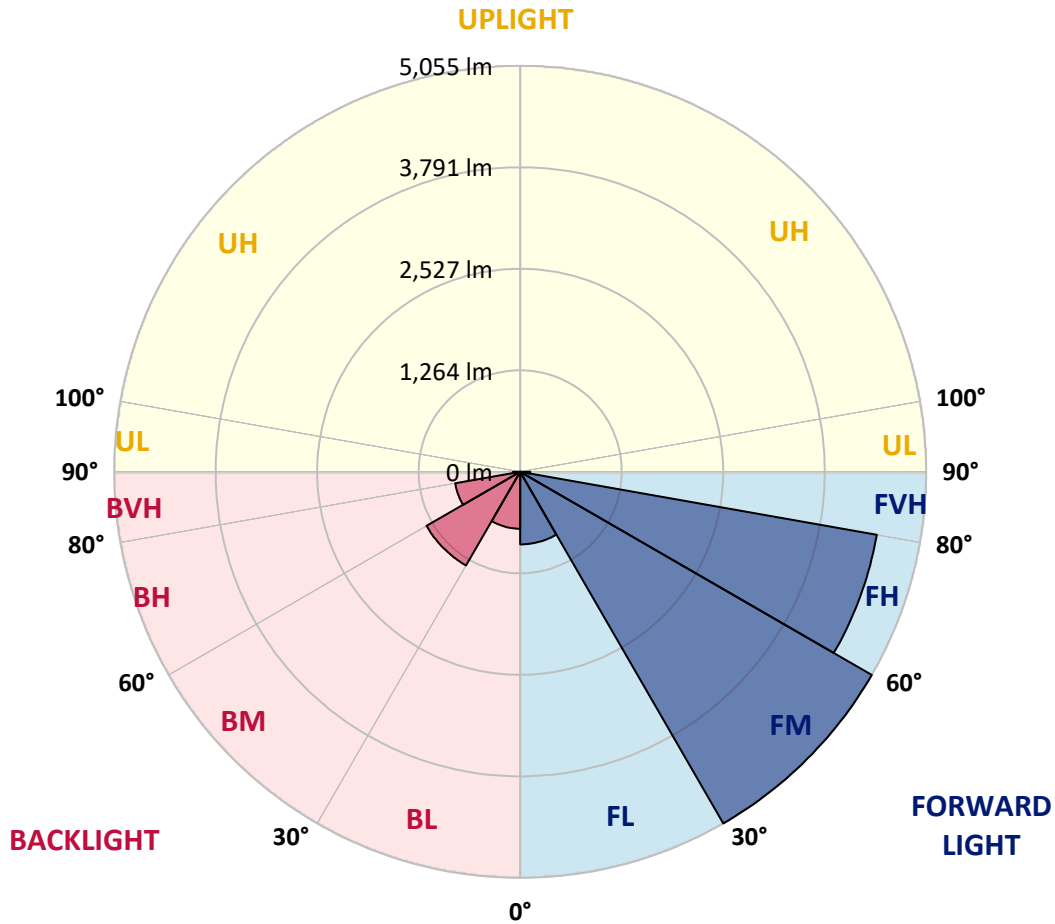
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	903.1	6.7			
FM (30°-60°)	5054.8	37.3			
FH (60°-80°)	4509.2	33.3			G2/5000
FVH (80°-90°)	124.7	0.9			G2/225
BL (0°-30°)	708.9	5.2	B2/1000		
BM (30°-60°)	1346.4	9.9	B2/2500		
BH (60°-80°)	821.7	6.1	B2/1000		G2/1000
BVH (80°-90°)	89.2	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°	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9
2.5°	1699.6	1692.2	1688.6	1692.2	1688.6	1681.2	1684.9	1681.2	1677.6	1673.9	1673.9
5°	1721.6	1714.3	1710.6	1714.3	1717.9	1710.6	1710.6	1710.6	1699.6	1695.9	1688.6
7.5°	1736.3	1725.3	1725.3	1732.6	1740.0	1743.6	1751.0	1747.3	1736.3	1728.9	1714.3
10°	1784.0	1769.3	1769.3	1769.3	1776.7	1784.0	1791.3	1795.0	1791.3	1787.7	1776.7
12.5°	1857.4	1842.7	1842.7	1842.7	1842.7	1839.1	1850.1	1853.8	1861.1	1861.1	1842.7
15°	1956.5	1938.2	1930.8	1916.2	1912.5	1905.1	1919.8	1919.8	1930.8	1934.5	1916.2
17.5°	2052.0	2029.9	2022.6	2007.9	1993.2	1974.9	1989.6	1993.2	2015.3	2018.9	1989.6
20°	2151.1	2143.7	2132.7	2110.7	2085.0	2066.7	2081.3	2077.7	2096.0	2103.4	2066.7
22.5°	2279.6	2261.2	2253.9	2224.5	2195.1	2176.8	2176.8	2184.1	2202.5	2202.5	2147.4
25°	2433.7	2408.0	2389.7	2356.6	2319.9	2297.9	2301.6	2308.9	2334.6	2316.3	2231.8
27.5°	2624.6	2598.9	2573.2	2507.2	2470.4	2426.4	2422.7	2430.1	2470.4	2422.7	2312.6
30°	2804.5	2793.5	2771.4	2720.1	2661.3	2587.9	2554.9	2558.5	2587.9	2521.8	2382.3
32.5°	2958.7	2944.0	2933.0	2896.3	2855.9	2767.8	2723.7	2727.4	2723.7	2643.0	2466.8
35°	3142.2	3120.2	3112.8	3079.8	3028.4	2969.7	2951.3	2944.0	2922.0	2811.8	2576.9
37.5°	3318.4	3296.4	3285.4	3267.0	3226.6	3175.2	3175.2	3171.6	3127.5	2973.3	2687.0
40°	3527.6	3501.9	3468.9	3457.9	3424.9	3388.1	3358.8	3340.4	3263.3	3123.8	2899.9
42.5°	3780.9	3766.2	3747.9	3700.2	3648.8	3641.4	3557.0	3549.7	3494.6	3413.8	3200.9
45°	4144.3	4115.0	4089.3	4074.6	4012.2	3946.1	3828.6	3799.3	3799.3	3780.9	3553.3
47.5°	4511.4	4460.0	4496.7	4485.7	4471.0	4397.6	4170.0	4173.7	4166.4	4214.1	4070.9
50°	4757.3	4728.0	4830.8	4878.5	4981.3	4981.3	4654.6	4614.2	4643.6	4783.0	4599.5
52.5°	4948.2	4929.9	5047.3	5234.6	5539.2	5568.6	5230.9	5146.5	5186.8	5385.1	5311.6
55°	5102.4	5084.0	5219.9	5546.6	6034.8	6214.7	5895.3	5858.6	5777.8	5990.7	6012.8
57.5°	5194.2	5153.8	5359.4	5796.2	6438.6	6853.4	6673.5	6662.5	6475.3	6673.5	6772.6
60°	5054.7	5029.0	5311.6	5899.0	6765.3	7455.4	7587.5	7587.5	7253.5	7359.9	7481.1
62.5°	4603.2	4570.1	4867.5	5660.4	6805.7	7947.3	8494.2	8450.2	8002.3	7998.7	7892.2
65°	3744.2	3703.8	4037.9	4874.8	6295.4	8006.0	9107.2	9081.5	8564.0	8417.1	7917.9
67°	2720.1	2694.4	2980.7	3810.3	5304.3	7495.8	9184.3	9206.3	8787.9	8475.9	7547.2
67.5°	2441.1	2437.4	2676.0	3498.3	5014.3	7308.5	9132.9	9155.0	8784.2	8428.1	7400.3
70°	1137.9	1189.3	1413.3	2004.3	3380.8	5755.8	8288.7	8373.1	8314.3	7877.5	6233.0
72.5°	528.6	550.6	649.7	969.1	1817.0	3711.2	6717.6	6919.4	7176.4	6757.9	4937.2
75°	326.7	334.0	389.1	502.9	855.3	1784.0	4783.0	5003.3	5392.4	5084.0	3156.9
77.5°	257.0	260.6	297.3	359.7	499.2	767.2	2624.6	2899.9	3406.5	3006.4	1589.5
80°	190.9	198.2	227.6	279.0	352.4	392.8	1115.9	1218.7	1644.5	1259.1	660.7
82.5°	139.5	146.8	176.2	201.9	245.9	249.6	455.2	480.9	704.8	510.2	286.3
85°	117.5	117.5	135.8	150.5	165.2	139.5	223.9	220.2	271.6	231.3	113.8
87.5°	55.1	58.7	128.5	95.4	80.8	58.7	66.1	69.7	84.4	91.8	44.0
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°	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9
2.5°	1670.2	1670.2	1670.2	1673.9	1677.6	1677.6	1681.2	1681.2	1684.9	1688.6	1695.9
5°	1684.9	1684.9	1681.2	1684.9	1692.2	1695.9	1703.2	1710.6	1717.9	1725.3	1728.9
7.5°	1714.3	1710.6	1710.6	1710.6	1717.9	1725.3	1736.3	1743.6	1754.6	1758.3	1765.7
10°	1769.3	1762.0	1762.0	1765.7	1769.3	1758.3	1754.6	1751.0	1762.0	1769.3	1776.7
12.5°	1835.4	1828.1	1824.4	1813.4	1798.7	1776.7	1758.3	1743.6	1747.3	1754.6	1765.7
15°	1905.1	1890.5	1883.1	1857.4	1820.7	1773.0	1743.6	1725.3	1725.3	1725.3	1736.3
17.5°	1978.6	1963.9	1934.5	1886.8	1817.0	1751.0	1714.3	1681.2	1666.5	1662.9	1670.2
20°	2048.3	2026.3	1978.6	1905.1	1795.0	1706.9	1659.2	1604.1	1582.1	1567.4	1574.8
22.5°	2114.4	2085.0	2018.9	1905.1	1758.3	1640.8	1556.4	1483.0	1446.3	1439.0	1442.6
25°	2184.1	2147.4	2059.3	1883.1	1677.6	1541.7	1424.3	1347.2	1299.5	1292.1	1303.1
27.5°	2253.9	2198.8	2092.4	1824.4	1585.8	1405.9	1281.1	1207.7	1182.0	1167.3	1171.0
30°	2312.6	2261.2	2125.4	1743.6	1461.0	1248.1	1134.3	1101.2	1082.9	1075.5	1075.5
32.5°	2389.7	2342.0	2147.4	1648.2	1314.1	1104.9	1031.5	1005.8	991.1	972.8	976.4
35°	2485.1	2441.1	2136.4	1527.1	1174.7	1009.5	950.7	914.0	881.0	855.3	851.6
37.5°	2613.6	2580.6	2081.3	1380.2	1046.2	939.7	881.0	833.3	785.5	745.2	737.8
40°	2826.5	2749.4	2000.6	1218.7	958.1	884.7	814.9	756.2	697.5	653.4	642.4
42.5°	3098.1	2936.6	1890.5	1053.5	884.7	825.9	756.2	679.1	624.0	583.7	583.7
45°	3413.8	3138.5	1758.3	928.7	807.6	767.2	682.8	616.7	583.7	558.0	554.3
47.5°	3788.3	3340.4	1589.5	829.6	745.2	715.8	631.4	591.0	569.0	546.9	543.3
50°	4291.2	3612.1	1464.6	745.2	682.8	657.1	616.7	583.7	561.6	546.9	543.3
52.5°	4867.5	3960.8	1376.5	679.1	631.4	620.4	613.0	587.3	565.3	554.3	550.6
55°	5491.5	4390.3	1292.1	624.0	591.0	605.7	620.4	594.7	580.0	565.3	558.0
57.5°	6078.8	4753.7	1156.3	576.3	561.6	587.3	616.7	598.3	580.0	569.0	565.3
60°	6479.0	4937.2	969.1	532.3	532.3	561.6	605.7	580.0	561.6	565.3	565.3
62.5°	6607.4	4867.5	767.2	491.9	502.9	532.3	572.6	558.0	550.6	569.0	569.0
65°	6416.5	4584.8	613.0	458.8	473.5	495.6	554.3	569.0	591.0	631.4	635.0
67°	5917.3	4129.6	517.6	433.2	447.8	484.5	576.3	627.7	627.7	671.8	671.8
67.5°	5770.5	3975.5	502.9	425.8	444.2	484.5	587.3	642.4	627.7	679.1	679.1
70°	4691.3	3127.5	425.8	403.8	429.5	510.2	635.0	646.1	613.0	660.7	657.1
72.5°	3479.9	2261.2	389.1	381.8	400.1	480.9	631.4	620.4	572.6	587.3	576.3
75°	2151.1	1310.5	359.7	352.4	363.4	425.8	583.7	565.3	510.2	499.2	488.2
77.5°	1038.8	664.4	308.3	319.4	330.4	370.8	513.9	495.6	447.8	422.1	418.5
80°	451.5	341.4	264.3	282.7	286.3	315.7	425.8	403.8	359.7	319.4	319.4
82.5°	223.9	190.9	209.2	234.9	227.6	253.3	334.0	297.3	264.3	220.2	212.9
85°	102.8	110.1	154.2	176.2	154.2	157.8	227.6	209.2	165.2	124.8	128.5
87.5°	36.7	51.4	88.1	106.5	77.1	73.4	121.1	88.1	51.4	14.7	18.4
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)