

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: P399535

Luminaire Tested: **ARCH-L-PA3-150-830-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-150-830-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19053 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

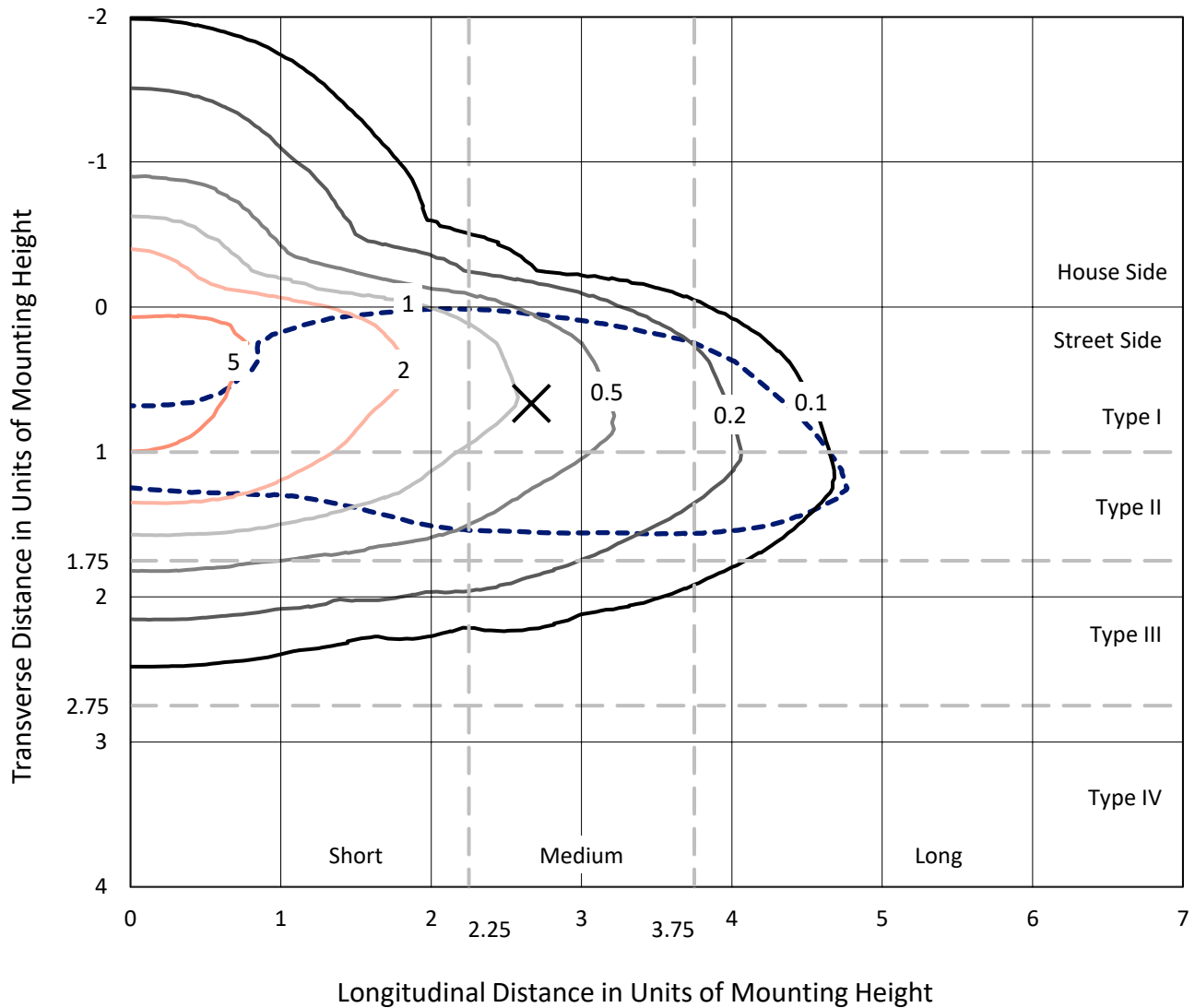
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

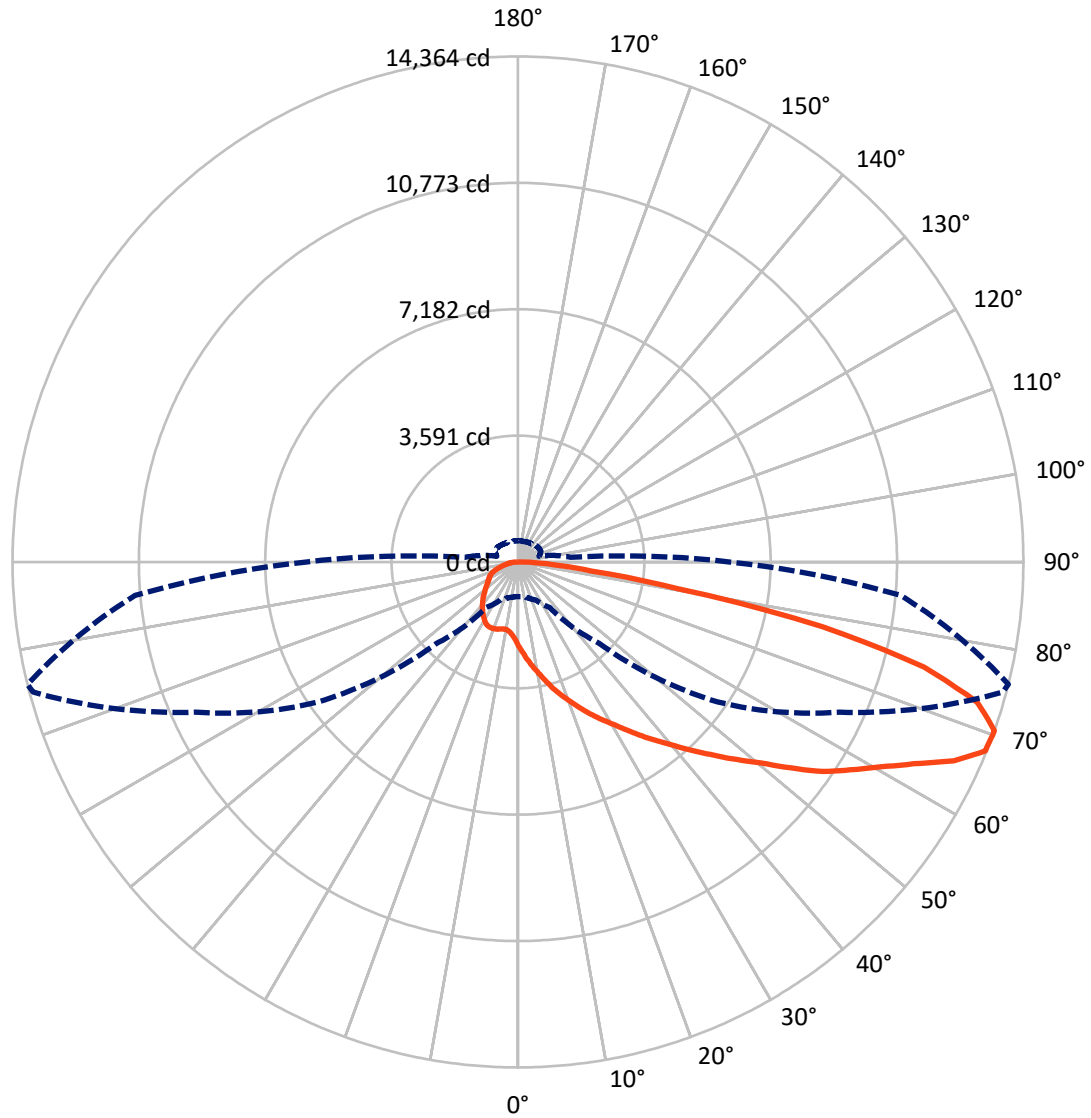
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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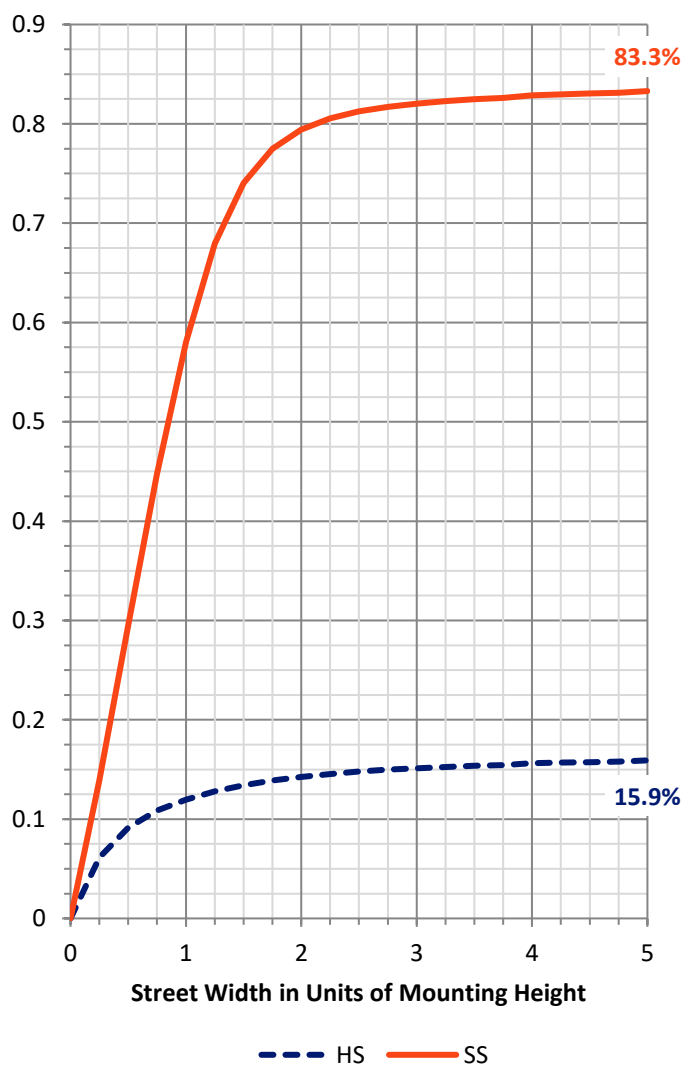
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3110.6	0.0	3110.6
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	15942.4	0.0	15942.4
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	19053.0	0.0	19053.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.6	1.3
10°-20°	841.4	4.4
20°-30°	1505.4	7.9
30°-40°	2435.2	12.8
40°-50°	3522.9	18.5
50°-60°	4032.1	21.2
60°-70°	3709.1	19.5
70°-80°	2293.6	12.0
80°-90°	465.8	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°	19053.0	100.0
0°-180°	19053.0	100.0

**Coefficient of Utilization**

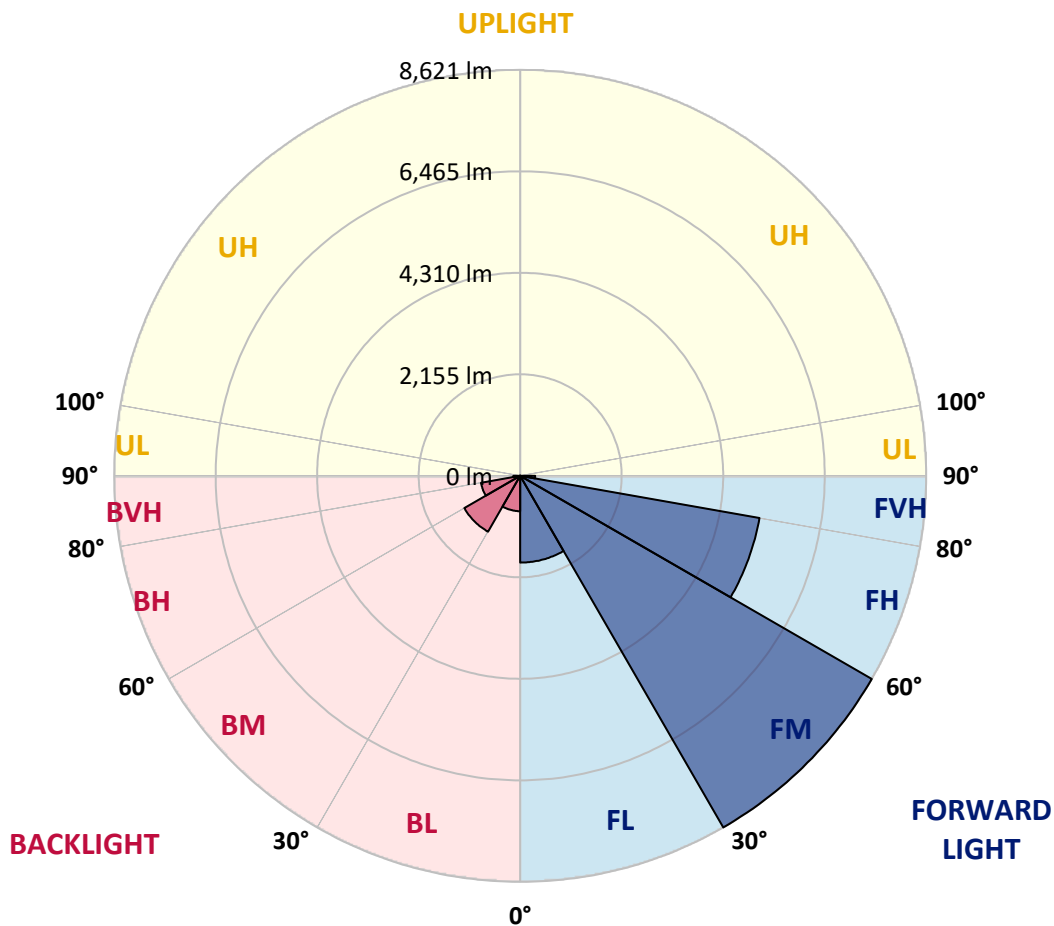


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1843.1	9.7			
FM (30°-60°)	8620.6	45.2			
FH (60°-80°)	5159.0	27.1			G3/7500
FVH (80°-90°)	319.7	1.7			G3/500
BL (0°-30°)	751.3	3.9	B2/1000		
BM (30°-60°)	1369.6	7.2	B2/2500		
BH (60°-80°)	843.7	4.4	B2/1000		G2/1000
BVH (80°-90°)	146.0	0.8			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2382.7	2382.7	2382.7	2382.7	2382.7	2382.7	2382.7	2382.7	2382.7	2382.7	2382.7
2.5°	3036.6	3014.0	3011.5	2976.4	2943.9	2856.2	2793.5	2683.3	2573.1	2570.6	2460.3
5°	3510.1	3487.6	3475.0	3432.4	3377.3	3262.1	3149.3	2979.0	2791.0	2778.5	2570.6
7.5°	3830.8	3810.8	3785.7	3768.2	3715.5	3612.8	3475.0	3272.1	3014.0	2989.0	2698.3
10°	4046.3	4033.7	4028.7	4016.2	3983.6	3900.9	3768.2	3552.7	3237.0	3209.4	2833.6
12.5°	4139.0	4134.0	4156.5	4191.6	4204.1	4171.5	4043.8	3840.8	3482.5	3452.5	2996.5
15°	4031.2	4036.2	4093.9	4214.1	4341.9	4412.1	4336.9	4139.0	3760.6	3718.1	3186.9
17.5°	3981.1	3988.6	4028.7	4144.0	4324.4	4542.3	4577.4	4422.1	4028.7	3968.6	3387.3
20°	4068.8	4078.8	4108.9	4199.1	4324.4	4557.4	4740.3	4692.7	4291.8	4229.2	3580.3
22.5°	4291.8	4304.3	4301.8	4359.4	4444.6	4605.0	4830.5	4948.2	4567.4	4497.2	3780.7
25°	4767.8	4757.8	4672.6	4645.1	4667.6	4770.3	4950.7	5193.7	4855.5	4785.4	3991.1
27.5°	5414.2	5401.7	5246.4	5106.1	4980.8	5025.9	5121.1	5391.7	5148.6	5068.5	4191.6
30°	6105.7	6090.7	5910.3	5682.3	5404.2	5339.1	5326.5	5564.5	5444.3	5359.1	4404.5
32.5°	6779.7	6767.2	6574.2	6308.7	5925.3	5729.9	5609.6	5757.5	5780.0	5697.3	4637.5
35°	7393.5	7393.5	7228.2	6912.5	6479.0	6183.4	5985.5	5995.5	6165.9	6070.6	4903.1
37.5°	7939.7	7937.2	7756.8	7446.1	7030.2	6692.0	6446.5	6283.6	6534.1	6451.5	5181.2
40°	8373.1	8355.6	8222.8	7952.2	7533.8	7198.1	6950.0	6621.8	6945.0	6869.9	5476.9
42.5°	8688.8	8678.8	8588.6	8353.1	7954.7	7639.0	7468.7	7047.8	7411.0	7335.9	5822.6
45°	8811.6	8831.6	8831.6	8608.6	8293.0	8004.8	7929.7	7516.3	7914.6	7839.5	6193.4
47.5°	8613.7	8666.3	8774.0	8789.0	8510.9	8315.5	8340.6	7987.3	8433.3	8393.2	6599.3
50°	7994.8	8092.5	8328.0	8754.0	8598.6	8553.5	8691.3	8468.3	8989.5	8976.9	7092.9
52.5°	6398.9	6636.9	7371.0	8135.1	8538.5	8663.8	9039.6	9009.5	9706.0	9726.1	7736.8
55°	4908.1	4998.3	5847.7	7148.0	8170.2	8628.7	9272.6	9538.2	10482.7	10507.8	8328.0
57.5°	3968.6	4028.7	4492.2	5847.7	7330.9	8438.3	9455.5	9846.3	11079.0	11144.1	8854.2
60°	3144.3	3232.0	3542.7	4474.7	6155.8	7979.8	9583.3	10189.6	11720.4	11818.1	9483.0
62.5°	2337.6	2380.2	2673.3	3314.7	4873.1	7155.5	9515.6	10562.9	12507.1	12624.8	10239.7
65°	1663.6	1701.2	1909.1	2357.6	3602.8	6040.6	9122.3	10841.0	13494.2	13614.5	11001.3
67.5°	1245.2	1260.2	1378.0	1648.6	2427.8	4692.7	8325.5	10793.4	14215.8	14323.5	11307.0
70°	984.6	989.6	1047.3	1192.6	1578.4	3267.1	6930.0	10094.4	14268.4	14363.6	10921.1
72.5°	816.8	814.3	846.8	917.0	1099.9	2067.0	5133.6	8796.5	13591.9	13657.1	9843.8
75°	674.0	679.0	701.5	741.6	839.3	1363.0	3327.2	7017.7	11991.0	11920.8	8260.4
77.5°	566.2	563.7	573.7	608.8	679.0	979.6	1949.2	5071.0	8886.7	8851.7	5421.7
80°	456.0	461.0	476.0	506.1	571.2	746.6	1152.5	3164.4	4767.8	4640.0	2590.6
82.5°	305.7	353.3	383.3	418.4	493.6	551.2	731.6	1608.5	2132.1	2099.5	1175.0
85°	145.3	192.9	285.6	325.7	400.9	345.7	496.1	766.7	1067.3	1054.8	423.4
87.5°	30.1	30.1	152.8	182.9	248.0	147.8	275.6	333.2	516.1	483.5	172.9
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°	2382.7	2382.7	2382.7	2382.7	2382.7	2382.7	2382.7	2382.7	2382.7	2382.7	2382.7
2.5°	2395.2	2327.5	2192.2	2084.5	1974.3	1911.6	1834.0	1796.4	1788.9	1768.8	1783.9
5°	2437.8	2305.0	2049.4	1881.6	1768.8	1713.7	1686.2	1676.1	1673.6	1668.6	1668.6
7.5°	2495.4	2292.5	1959.2	1788.9	1716.2	1698.7	1706.2	1721.2	1723.7	1728.7	1726.2
10°	2565.6	2295.0	1909.1	1766.3	1731.2	1733.8	1758.8	1778.9	1788.9	1796.4	1793.9
12.5°	2663.3	2325.0	1901.6	1781.4	1766.3	1776.3	1801.4	1821.4	1831.5	1834.0	1834.0
15°	2791.0	2387.7	1919.2	1813.9	1801.4	1808.9	1823.9	1831.5	1834.0	1831.5	1831.5
17.5°	2931.3	2462.8	1944.2	1834.0	1813.9	1806.4	1801.4	1793.9	1778.9	1768.8	1768.8
20°	3066.6	2530.5	1956.7	1831.5	1796.4	1766.3	1736.3	1698.7	1673.6	1653.6	1653.6
22.5°	3201.9	2593.1	1956.7	1803.9	1748.8	1691.2	1628.5	1568.4	1530.8	1505.8	1505.8
25°	3344.7	2653.2	1941.7	1756.3	1673.6	1590.9	1505.8	1430.6	1393.0	1368.0	1363.0
27.5°	3465.0	2688.3	1901.6	1688.7	1580.9	1475.7	1378.0	1300.3	1272.8	1250.2	1250.2
30°	3592.8	2710.9	1826.5	1601.0	1475.7	1355.4	1255.2	1192.6	1162.5	1129.9	1127.4
32.5°	3735.6	2725.9	1741.3	1508.3	1368.0	1240.2	1155.0	1104.9	1039.8	1004.7	999.7
35°	3900.9	2745.9	1651.1	1403.0	1260.2	1145.0	1094.9	1012.2	949.6	919.5	917.0
37.5°	4076.3	2761.0	1553.4	1310.3	1162.5	1082.3	1032.2	934.5	879.4	834.3	829.3
40°	4261.7	2761.0	1453.1	1220.1	1084.8	1054.8	959.6	871.9	779.2	756.6	751.6
42.5°	4467.2	2756.0	1352.9	1132.5	1012.2	992.1	917.0	824.3	776.7	756.6	751.6
45°	4685.1	2738.4	1257.7	1032.2	937.0	896.9	839.3	814.3	794.2	794.2	794.2
47.5°	4933.2	2723.4	1150.0	942.0	881.9	836.8	794.2	779.2	776.7	784.2	791.7
50°	5251.4	2718.4	1059.8	876.9	839.3	786.7	781.7	769.2	771.7	771.7	771.7
52.5°	5637.2	2673.3	974.6	829.3	796.7	734.1	749.1	761.6	766.7	764.2	761.6
55°	5920.3	2593.1	902.0	796.7	766.7	714.0	734.1	754.1	759.1	751.6	751.6
57.5°	6175.9	2480.4	844.3	771.7	746.6	701.5	724.1	744.1	739.1	736.6	734.1
60°	6469.0	2372.6	799.2	759.1	726.6	696.5	716.6	729.1	721.6	716.6	714.0
62.5°	6787.2	2267.4	766.7	759.1	711.5	694.0	709.0	714.0	699.0	694.0	694.0
65°	6935.0	2102.1	731.6	759.1	704.0	689.0	694.0	689.0	674.0	674.0	671.5
67.5°	6692.0	1829.0	686.5	749.1	714.0	681.5	671.5	663.9	646.4	646.4	641.4
70°	6020.5	1503.3	621.3	716.6	716.6	679.0	641.4	623.9	603.8	611.3	601.3
72.5°	5143.6	1192.6	541.2	661.4	701.5	676.5	608.8	581.3	563.7	571.2	556.2
75°	4166.5	924.5	446.0	573.7	663.9	663.9	576.2	538.7	518.6	518.6	501.1
77.5°	2655.8	684.0	363.3	476.0	596.3	646.4	548.7	491.1	461.0	453.5	441.0
80°	1315.3	481.0	298.1	378.3	508.6	606.3	528.6	435.9	393.4	378.3	355.8
82.5°	699.0	333.2	238.0	295.6	405.9	546.2	503.6	375.8	323.2	300.7	275.6
85°	313.2	205.4	190.4	225.5	308.2	448.5	453.5	308.2	248.0	295.6	218.0
87.5°	115.2	92.7	92.7	115.2	177.9	187.9	320.7	197.9	157.8	107.7	85.2
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)