

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: P572654

Luminaire Tested: **ARCH-S-PA2-100-730-U-T2R**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-100-730-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12710 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

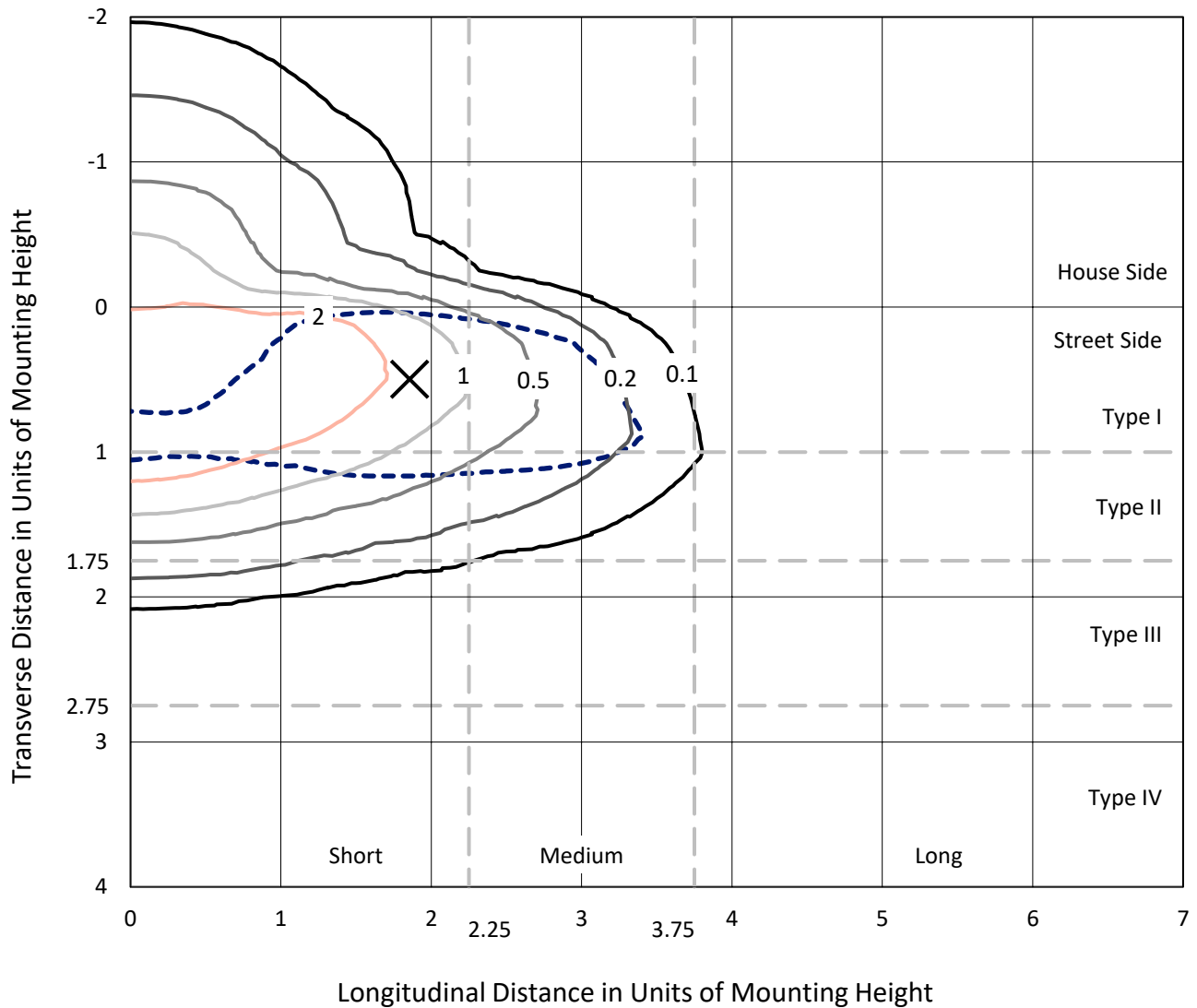
Input Watts (W): 103.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

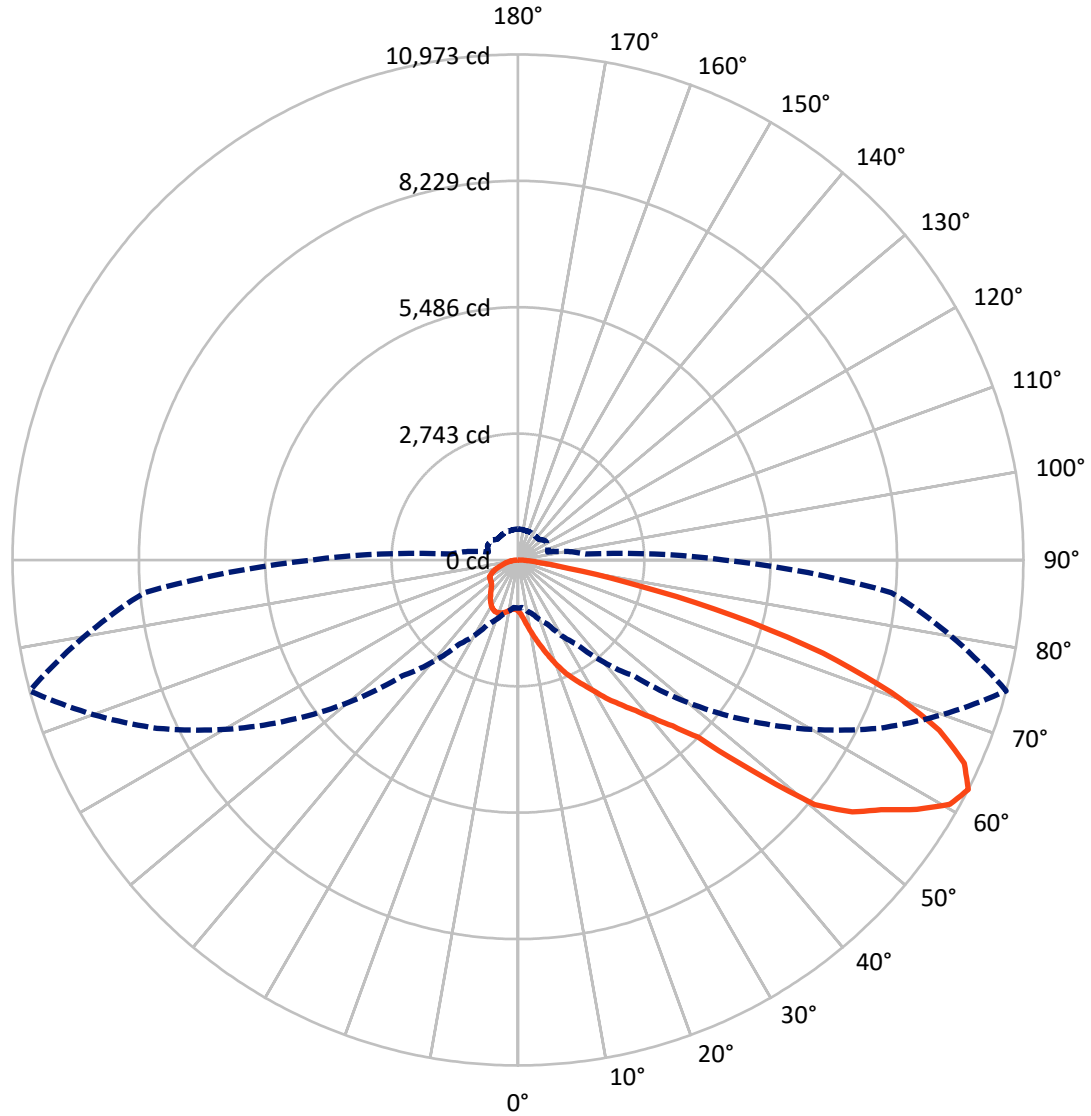
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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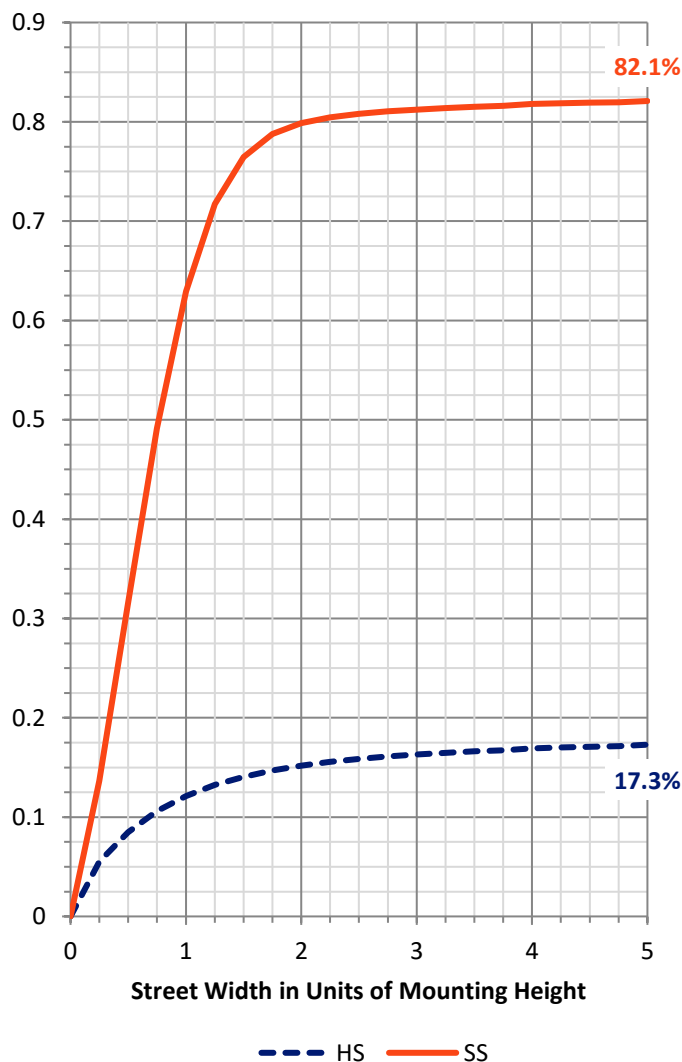
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2241.7	0.0	2241.7
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	10468.3	0.0	10468.3
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	12710.0	0.0	12710.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.1	1.0
10°-20°	525.9	4.1
20°-30°	1040.5	8.2
30°-40°	1734.4	13.6
40°-50°	2559.3	20.1
50°-60°	3076.5	24.2
60°-70°	2391.0	18.8
70°-80°	1057.8	8.3
80°-90°	191.5	1.5
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°	12710.0	100.0
0°-180°	12710.0	100.0

**Coefficient of Utilization**



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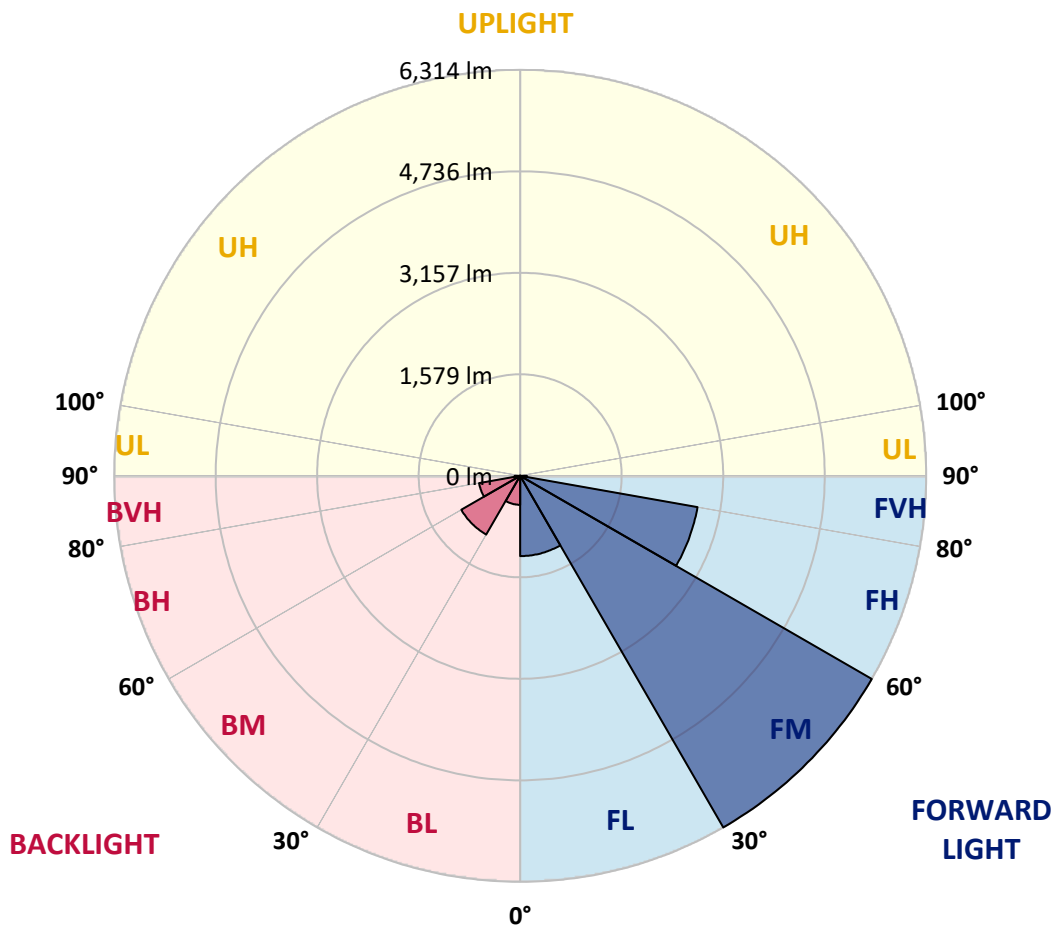
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.5	9.8			
FM (30°-60°)	6314.3	49.7			
FH (60°-80°)	2800.3	22.0			G2/5000
FVH (80°-90°)	105.3	0.8			G2/225
BL (0°-30°)	451.1	3.5	B1/500		
BM (30°-60°)	1055.8	8.3	B2/2500		
BH (60°-80°)	648.6	5.1	B2/1000		G2/1000
BVH (80°-90°)	86.2	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1416.6	1375.4	1375.4	1330.8	1334.3	1296.5	1255.4	1214.2	1169.6	1135.3	1118.2
5°	1852.2	1821.3	1811.0	1759.6	1677.3	1584.7	1485.2	1382.3	1276.0	1193.6	1152.5
7.5°	2260.4	2236.4	2222.6	2164.3	2051.1	1951.7	1793.9	1605.2	1423.4	1269.1	1207.4
10°	2562.2	2545.1	2517.6	2490.2	2407.9	2322.1	2126.6	1859.1	1591.5	1361.7	1269.1
12.5°	2781.7	2757.7	2757.7	2754.3	2699.4	2620.5	2438.7	2150.6	1787.0	1464.6	1337.7
15°	2929.2	2925.8	2936.1	2956.7	2942.9	2891.5	2709.7	2418.1	1986.0	1581.2	1416.6
17.5°	3039.0	3025.3	3045.8	3100.7	3141.9	3121.3	2970.4	2675.4	2205.5	1708.1	1502.3
20°	3159.0	3131.6	3159.0	3227.6	3279.1	3309.9	3237.9	2922.4	2442.2	1845.3	1584.7
22.5°	3388.8	3385.4	3371.7	3392.3	3426.6	3481.4	3440.3	3172.7	2672.0	1982.5	1680.7
25°	3800.4	3762.7	3725.0	3680.4	3642.7	3659.8	3625.5	3406.0	2881.2	2133.5	1763.0
27.5°	4260.1	4218.9	4150.3	4040.5	3937.6	3875.9	3803.9	3608.4	3083.6	2270.7	1841.9
30°	4681.9	4668.2	4565.3	4445.3	4266.9	4153.7	4016.5	3841.6	3327.1	2421.6	1924.2
32.5°	5076.4	5049.0	4946.1	4819.1	4609.9	4483.0	4294.4	4095.4	3604.9	2606.8	2010.0
35°	5416.0	5388.5	5268.5	5107.3	4925.5	4815.7	4599.6	4321.8	3858.7	2768.0	2082.0
37.5°	5673.2	5642.3	5529.2	5371.4	5210.2	5158.7	4973.5	4609.9	4146.9	2970.4	2171.2
40°	5817.3	5779.5	5704.1	5594.3	5460.6	5436.5	5357.7	4966.6	4510.4	3217.3	2301.5
42.5°	5834.4	5800.1	5759.0	5748.7	5738.4	5759.0	5796.7	5371.4	4925.5	3546.6	2493.6
45°	5683.5	5662.9	5666.4	5783.0	5944.2	6132.8	6359.2	5968.2	5484.6	4174.3	2925.8
47.5°	5361.1	5350.8	5426.3	5621.8	5981.9	6410.7	7052.1	6990.3	6808.5	5186.2	3481.4
50°	4839.7	4822.6	4983.8	5292.5	5807.0	6503.3	7518.6	8194.3	8345.2	5971.6	3845.0
52.5°	4092.0	4112.6	4363.0	4784.8	5405.7	6403.8	7710.6	8688.2	9086.1	6551.3	4122.9
55°	3327.1	3296.2	3522.6	4044.0	4812.3	6040.2	7748.4	8972.9	9566.3	7086.4	4393.8
57.5°	2425.0	2500.5	2740.6	3213.9	4047.4	5381.7	7528.8	9168.4	10211.1	7621.5	4644.2
60°	1643.0	1643.0	1855.6	2329.0	3128.2	4582.5	6942.3	9096.4	10773.6	8039.9	4699.1
62.5°	1046.1	1035.9	1207.4	1543.5	2239.8	3560.3	6064.2	8643.6	10972.6	8139.4	4469.3
65°	662.0	675.7	737.4	943.2	1433.7	2527.9	4867.2	7741.5	10646.7	7909.6	4068.0
67.5°	531.6	535.1	565.9	651.7	881.5	1622.4	3608.4	6496.4	9868.1	7329.9	3598.1
70°	469.9	476.8	483.6	514.5	603.7	1025.6	2370.1	5230.7	8592.1	6321.5	3093.9
72.5°	428.7	435.6	442.5	449.3	497.3	668.8	1399.4	3965.1	6932.0	4856.9	2359.8
75°	394.4	401.3	401.3	404.7	432.2	497.3	768.3	2733.7	4826.0	3021.8	1471.5
77.5°	353.3	356.7	356.7	363.6	391.0	391.0	476.8	1691.0	2678.8	1368.6	744.3
80°	298.4	305.3	305.3	315.6	343.0	301.8	319.0	864.4	1111.3	562.5	332.7
82.5°	219.5	233.2	240.1	257.2	274.4	229.8	229.8	435.6	469.9	250.4	178.4
85°	120.0	123.5	178.4	192.1	202.4	137.2	154.3	216.1	233.2	109.8	89.2
87.5°	34.3	37.7	85.7	106.3	96.0	58.3	65.2	82.3	82.3	30.9	24.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1104.5	1077.0	1053.0	1035.9	1018.7	1008.4	1005.0	998.1	998.1	1001.6
5°	1118.2	1070.2	1032.4	1011.8	998.1	991.3	987.8	987.8	991.3	991.3
7.5°	1152.5	1080.4	1046.1	1029.0	1015.3	1008.4	1008.4	1005.0	1008.4	1008.4
10°	1200.5	1111.3	1073.6	1053.0	1042.7	1032.4	1029.0	1025.6	1025.6	1025.6
12.5°	1251.9	1145.6	1104.5	1080.4	1063.3	1049.6	1042.7	1035.9	1032.4	1032.4
15°	1300.0	1179.9	1125.0	1097.6	1073.6	1053.0	1039.3	1029.0	1025.6	1025.6
17.5°	1351.4	1203.9	1138.8	1101.0	1070.2	1042.7	1025.6	1011.8	1005.0	1005.0
20°	1406.3	1221.1	1138.8	1090.7	1049.6	1022.1	1001.6	987.8	974.1	974.1
22.5°	1450.9	1227.9	1125.0	1066.7	1025.6	991.3	970.7	953.5	943.2	943.2
25°	1488.6	1221.1	1094.2	1029.0	981.0	950.1	929.5	915.8	905.5	905.5
27.5°	1512.6	1193.6	1056.4	987.8	943.2	912.4	898.7	884.9	878.1	878.1
30°	1526.3	1159.3	1008.4	943.2	898.7	881.5	874.6	860.9	850.6	847.2
32.5°	1533.2	1107.9	960.4	898.7	867.8	860.9	860.9	843.8	830.1	826.6
35°	1526.3	1053.0	912.4	860.9	850.6	854.1	847.2	826.6	809.5	802.6
37.5°	1516.1	987.8	860.9	833.5	843.8	850.6	830.1	802.6	775.2	768.3
40°	1509.2	929.5	819.8	806.0	836.9	840.3	802.6	751.2	730.6	723.7
42.5°	1543.5	871.2	782.0	785.5	819.8	823.2	754.6	730.6	716.9	713.4
45°	1660.1	819.8	751.2	771.7	799.2	785.5	730.6	727.2	716.9	713.4
47.5°	1749.3	782.0	737.4	761.5	782.0	734.0	727.2	723.7	713.4	710.0
50°	1780.2	758.0	734.0	754.6	758.0	710.0	720.3	720.3	710.0	706.6
52.5°	1783.6	744.3	740.9	751.2	720.3	699.7	713.4	713.4	703.1	699.7
55°	1797.3	737.4	744.3	751.2	679.1	686.0	699.7	703.1	692.9	689.4
57.5°	1769.9	727.2	751.2	754.6	662.0	672.3	686.0	686.0	686.0	686.0
60°	1663.5	706.6	747.7	747.7	648.3	655.1	668.8	675.7	679.1	679.1
62.5°	1468.0	665.4	727.2	727.2	634.5	641.4	658.6	658.6	668.8	668.8
65°	1221.1	607.1	686.0	682.6	620.8	627.7	648.3	641.4	658.6	662.0
67.5°	1018.7	535.1	624.3	631.1	607.1	624.3	638.0	614.0	648.3	648.3
70°	812.9	449.3	541.9	572.8	583.1	627.7	617.4	579.7	624.3	614.0
72.5°	631.1	380.7	445.9	500.8	555.7	624.3	572.8	531.6	559.1	541.9
75°	459.6	315.6	367.0	415.0	517.9	614.0	528.2	466.5	466.5	459.6
77.5°	322.4	257.2	295.0	329.3	480.2	586.5	473.3	401.3	384.2	380.7
80°	219.5	202.4	233.2	253.8	425.3	531.6	408.2	332.7	301.8	295.0
82.5°	144.1	144.1	157.8	171.5	329.3	442.5	319.0	247.0	319.0	305.3
85°	82.3	85.7	85.7	99.5	181.8	312.1	226.4	247.0	147.5	137.2
87.5°	27.4	27.4	27.4	27.4	37.7	126.9	96.0	89.2	34.3	30.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)