

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: P573343

Luminaire Tested: **ARCH-S-PA2-60-760-U-T4W-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-60-760-U-T4W-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6935 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

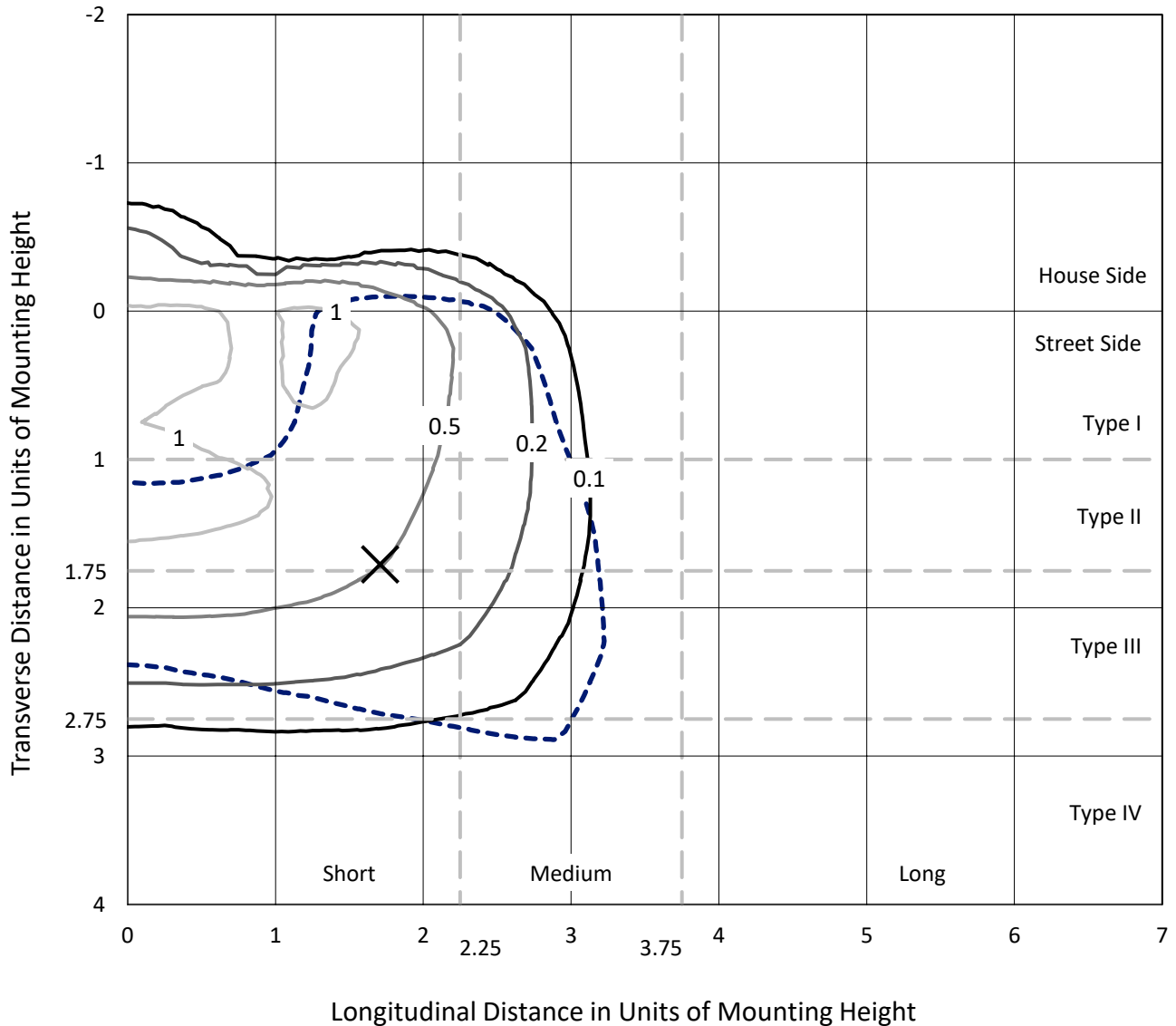
Input Watts (W): 63.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

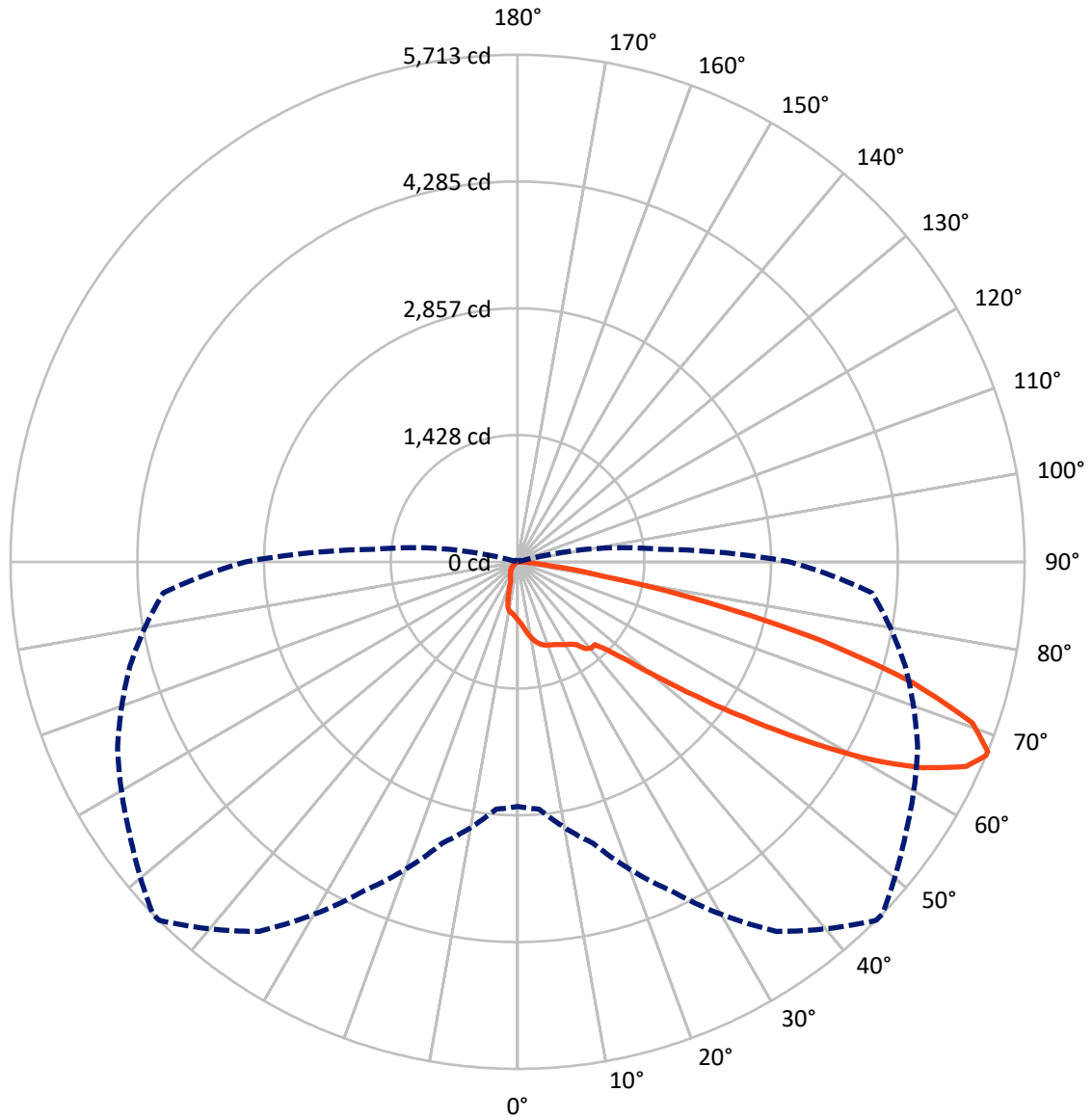
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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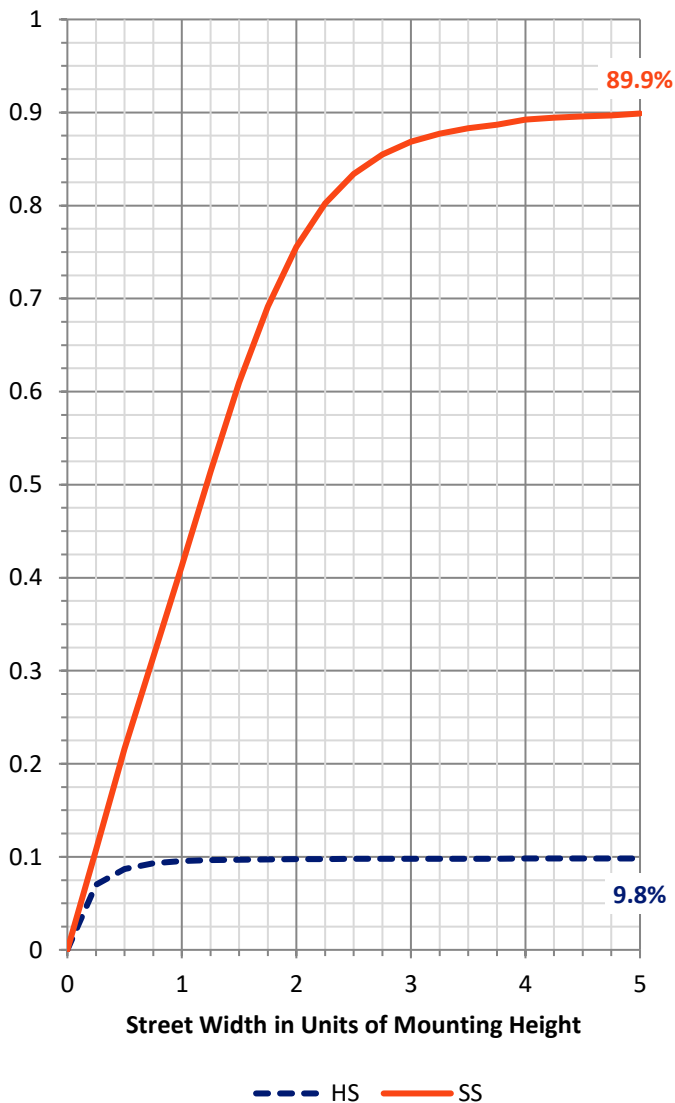
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	687.2	0.0	687.2
	% Fixture	9.9	0.0	9.9
<b>Street Side</b>	Lumens	6247.8	0.0	6247.8
	% Fixture	90.1	0.0	90.1
<b>Total</b>	Lumens	6935.0	0.0	6935.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.8	0.9
10°-20°	199.0	2.9
20°-30°	318.3	4.6
30°-40°	458.1	6.6
40°-50°	803.8	11.6
50°-60°	1693.5	24.4
60°-70°	2341.9	33.8
70°-80°	980.4	14.1
80°-90°	74.1	1.1
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°	6935.0	100.0
0°-180°	6935.0	100.0

**Coefficient of Utilization**



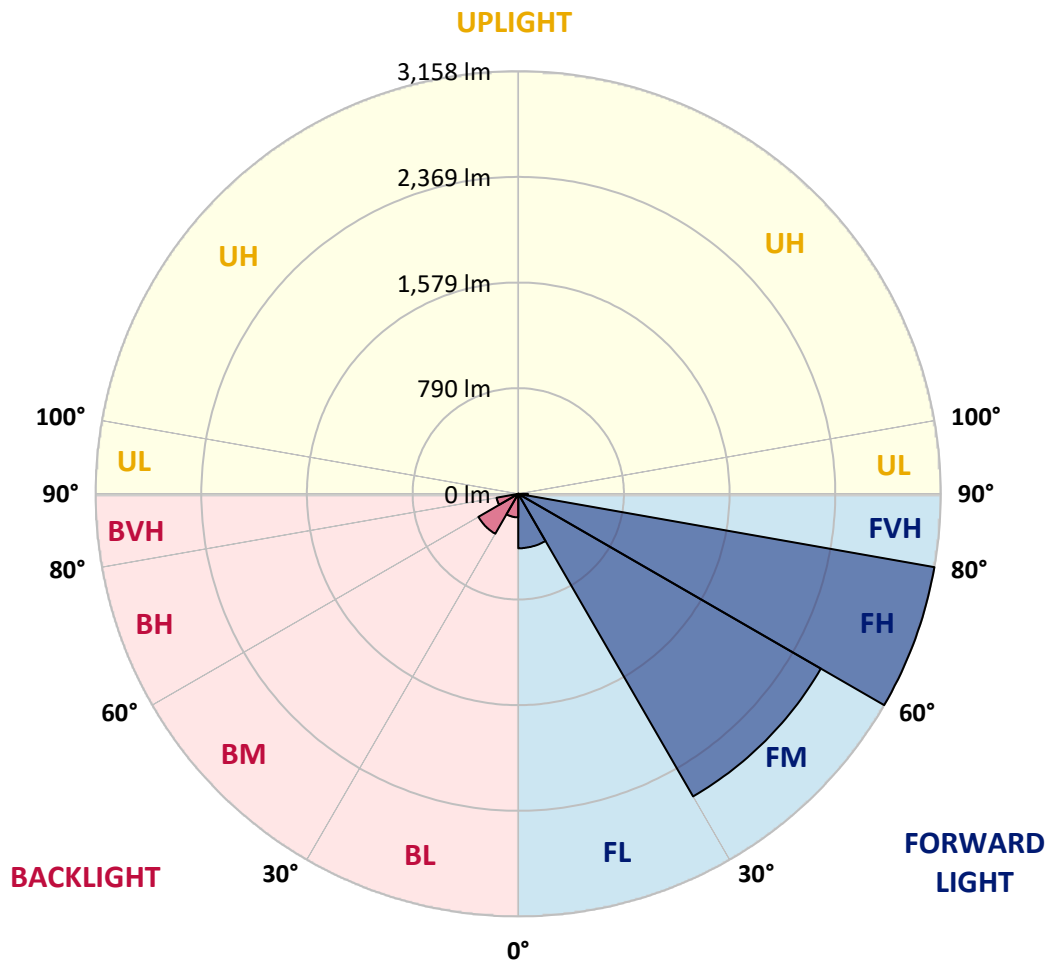
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.0	5.9			
FM (30°-60°)	2611.1	37.7			
FH (60°-80°)	3158.0	45.5			G2/5000
FVH (80°-90°)	71.6	1.0			G1/100
BL (0°-30°)	176.1	2.5	B1/500		
BM (30°-60°)	344.3	5.0	B1/1000		
BH (60°-80°)	164.2	2.4	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9
2.5°	730.2	717.4	714.8	712.2	704.5	694.3	696.9	689.2	676.4	668.7	661.0
5°	819.8	807.0	801.9	786.5	771.2	748.1	748.1	727.6	704.5	684.0	663.6
7.5°	912.1	901.8	891.6	868.5	845.5	814.7	812.1	781.4	745.5	714.8	681.5
10°	988.9	981.2	968.4	940.2	909.5	876.2	868.5	840.3	794.2	753.2	709.7
12.5°	1050.4	1042.7	1024.8	996.6	958.2	924.9	922.3	886.4	840.3	796.8	743.0
15°	1096.5	1083.7	1063.2	1032.5	994.0	963.3	958.2	927.4	883.9	835.2	771.2
17.5°	1104.2	1096.5	1078.6	1045.3	1012.0	986.4	983.8	960.7	922.3	871.1	804.5
20°	1083.7	1081.2	1065.8	1040.2	1014.5	1001.7	999.2	983.8	953.1	906.9	840.3
22.5°	1053.0	1050.4	1040.2	1027.3	1017.1	1014.5	1014.5	1009.4	991.5	947.9	886.4
25°	1032.5	1029.9	1024.8	1017.1	1017.1	1032.5	1035.0	1040.2	1024.8	991.5	924.9
27.5°	1035.0	1029.9	1024.8	1017.1	1027.3	1055.5	1058.1	1070.9	1058.1	1027.3	968.4
30°	1070.9	1063.2	1047.8	1029.9	1042.7	1081.2	1083.7	1099.1	1088.8	1073.5	1017.1
32.5°	1127.3	1122.1	1091.4	1060.7	1068.3	1106.8	1111.9	1140.1	1152.9	1129.8	1060.7
35°	1209.2	1191.3	1152.9	1122.1	1117.0	1145.2	1152.9	1199.0	1232.3	1175.9	1086.3
37.5°	1275.9	1260.5	1199.0	1150.3	1178.5	1242.6	1245.1	1301.5	1273.3	1181.1	1127.3
40°	1501.3	1498.8	1391.1	1237.4	1206.7	1278.4	1288.7	1298.9	1286.1	1240.0	1216.9
42.5°	1865.1	1834.4	1714.0	1478.3	1268.2	1275.9	1281.0	1334.8	1401.4	1380.9	1388.6
45°	2259.7	2234.0	2098.3	1801.1	1478.3	1414.2	1419.3	1506.4	1634.5	1660.2	1701.1
47.5°	2623.5	2582.5	2505.6	2205.9	1836.9	1649.9	1660.2	1765.2	1977.8	2034.2	2098.3
50°	2930.9	2902.7	2831.0	2633.7	2277.6	2021.4	2031.6	2118.7	2395.4	2485.1	2567.1
52.5°	3376.7	3338.2	3199.9	3107.7	2838.7	2505.6	2482.5	2574.8	2892.5	2951.4	3061.6
55°	3786.6	3707.2	3625.2	3586.8	3474.0	3084.6	3076.9	3094.9	3358.7	3389.5	3586.8
57.5°	3960.8	3945.4	4014.6	4142.7	4168.3	3766.1	3732.8	3663.6	3871.1	3868.6	4099.2
60°	4071.0	4071.0	4255.4	4573.1	4778.1	4493.7	4447.6	4232.4	4306.7	4309.2	4521.9
62.5°	4001.8	4019.7	4306.7	4785.8	5198.2	5111.1	5080.4	4719.1	4714.0	4655.1	4729.4
65°	3573.9	3604.7	4065.8	4667.9	5352.0	5556.9	5544.1	5134.2	4985.6	4770.4	4603.9
67°	2915.5	2971.9	3530.4	4242.6	5177.7	5710.6	5713.2	5313.5	4988.2	4578.2	4160.6
67.5°	2756.7	2797.7	3281.9	4088.9	5082.9	5713.2	5713.2	5336.6	4972.8	4519.3	4006.9
70°	1757.5	1767.8	2295.5	3164.0	4342.5	5436.5	5457.0	5162.4	4529.6	3658.5	2813.0
72.5°	868.5	845.5	1211.8	2036.8	3258.8	4652.5	4706.3	4409.2	3584.2	2390.3	1485.9
75°	340.7	363.8	527.8	1083.7	2041.9	3507.3	3548.3	3207.6	2305.8	1232.3	586.7
77.5°	151.2	151.2	225.5	486.8	1073.5	2152.1	2172.6	1957.3	1216.9	507.3	179.3
80°	82.0	87.1	117.9	212.6	540.6	988.9	1078.6	971.0	550.8	222.9	61.5
82.5°	41.0	43.6	71.7	120.4	271.6	374.0	394.5	412.5	253.6	138.3	25.6
85°	15.4	17.9	38.4	69.2	123.0	125.5	125.5	161.4	138.3	105.0	12.8
87.5°	2.6	5.1	17.9	28.2	48.7	43.6	38.4	51.2	76.9	66.6	7.7
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°	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9	655.9
2.5°	655.9	650.7	640.5	632.8	627.7	622.6	617.4	617.4	614.9	614.9	617.4
5°	655.9	645.6	625.1	612.3	602.1	594.4	589.3	589.3	586.7	589.3	591.8
7.5°	668.7	653.3	625.1	602.1	589.3	576.4	571.3	568.8	568.8	571.3	568.8
10°	689.2	668.7	632.8	602.1	584.1	566.2	538.0	512.4	489.3	479.1	476.5
12.5°	714.8	689.2	645.6	609.7	581.6	520.1	443.2	394.5	363.8	348.4	343.3
15°	743.0	712.2	661.0	620.0	543.1	427.8	327.9	274.1	256.2	258.8	261.3
17.5°	773.7	740.4	684.0	614.9	466.3	317.7	240.8	228.0	235.7	243.4	243.4
20°	804.5	768.6	707.1	576.4	366.4	235.7	215.2	217.8	225.5	233.1	233.1
22.5°	845.5	807.0	730.2	509.8	271.6	205.0	205.0	210.1	215.2	222.9	222.9
25°	889.0	850.6	745.5	427.8	202.4	192.1	194.7	199.8	205.0	212.6	212.6
27.5°	935.1	896.7	743.0	330.5	176.8	176.8	179.3	187.0	192.1	199.8	199.8
30°	986.4	953.1	714.8	240.8	164.0	161.4	161.4	169.1	176.8	181.9	184.5
32.5°	1029.9	1001.7	666.1	181.9	153.7	148.6	146.0	148.6	156.3	161.4	164.0
35°	1065.8	1055.5	594.4	156.3	143.5	135.8	130.7	128.1	130.7	130.7	133.2
37.5°	1132.4	1135.0	509.8	146.0	135.8	125.5	115.3	107.6	102.5	99.9	97.4
40°	1257.9	1255.4	420.2	138.3	128.1	115.3	99.9	89.7	76.9	71.7	71.7
42.5°	1434.7	1396.3	320.2	130.7	120.4	105.0	84.5	69.2	56.4	53.8	53.8
45°	1752.4	1593.5	240.8	125.5	112.7	92.2	69.2	51.2	43.6	41.0	41.0
47.5°	2103.4	1821.6	192.1	117.9	105.0	82.0	53.8	41.0	33.3	33.3	33.3
50°	2490.2	2039.3	161.4	110.2	92.2	69.2	43.6	33.3	30.7	28.2	30.7
52.5°	2913.0	2211.0	140.9	99.9	79.4	56.4	35.9	30.7	25.6	25.6	25.6
55°	3292.1	2326.3	117.9	87.1	66.6	46.1	33.3	25.6	23.1	20.5	17.9
57.5°	3635.4	2387.8	94.8	74.3	51.2	38.4	28.2	20.5	17.9	12.8	12.8
60°	3812.2	2331.4	74.3	58.9	41.0	30.7	23.1	17.9	12.8	7.7	7.7
62.5°	3840.4	2185.4	58.9	46.1	35.9	25.6	17.9	12.8	7.7	5.1	5.1
65°	3594.4	1929.2	48.7	38.4	28.2	20.5	15.4	10.2	5.1	2.6	2.6
67°	3153.8	1660.2	43.6	33.3	25.6	17.9	12.8	7.7	5.1	2.6	0.0
67.5°	3066.7	1611.5	41.0	33.3	25.6	17.9	12.8	7.7	5.1	2.6	0.0
70°	2013.7	1114.5	38.4	30.7	23.1	15.4	10.2	7.7	2.6	0.0	0.0
72.5°	1099.1	561.1	35.9	28.2	20.5	15.4	10.2	5.1	2.6	0.0	0.0
75°	402.2	212.6	30.7	25.6	17.9	15.4	10.2	5.1	2.6	0.0	0.0
77.5°	135.8	74.3	28.2	25.6	20.5	15.4	10.2	5.1	2.6	0.0	0.0
80°	46.1	33.3	23.1	20.5	15.4	12.8	10.2	5.1	2.6	0.0	0.0
82.5°	17.9	10.2	7.7	7.7	7.7	10.2	10.2	7.7	2.6	0.0	0.0
85°	7.7	5.1	2.6	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0
87.5°	7.7	5.1	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
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)