

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: P572869

Luminaire Tested: **ARCH-S-PA2-120-830-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)
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-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9556 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

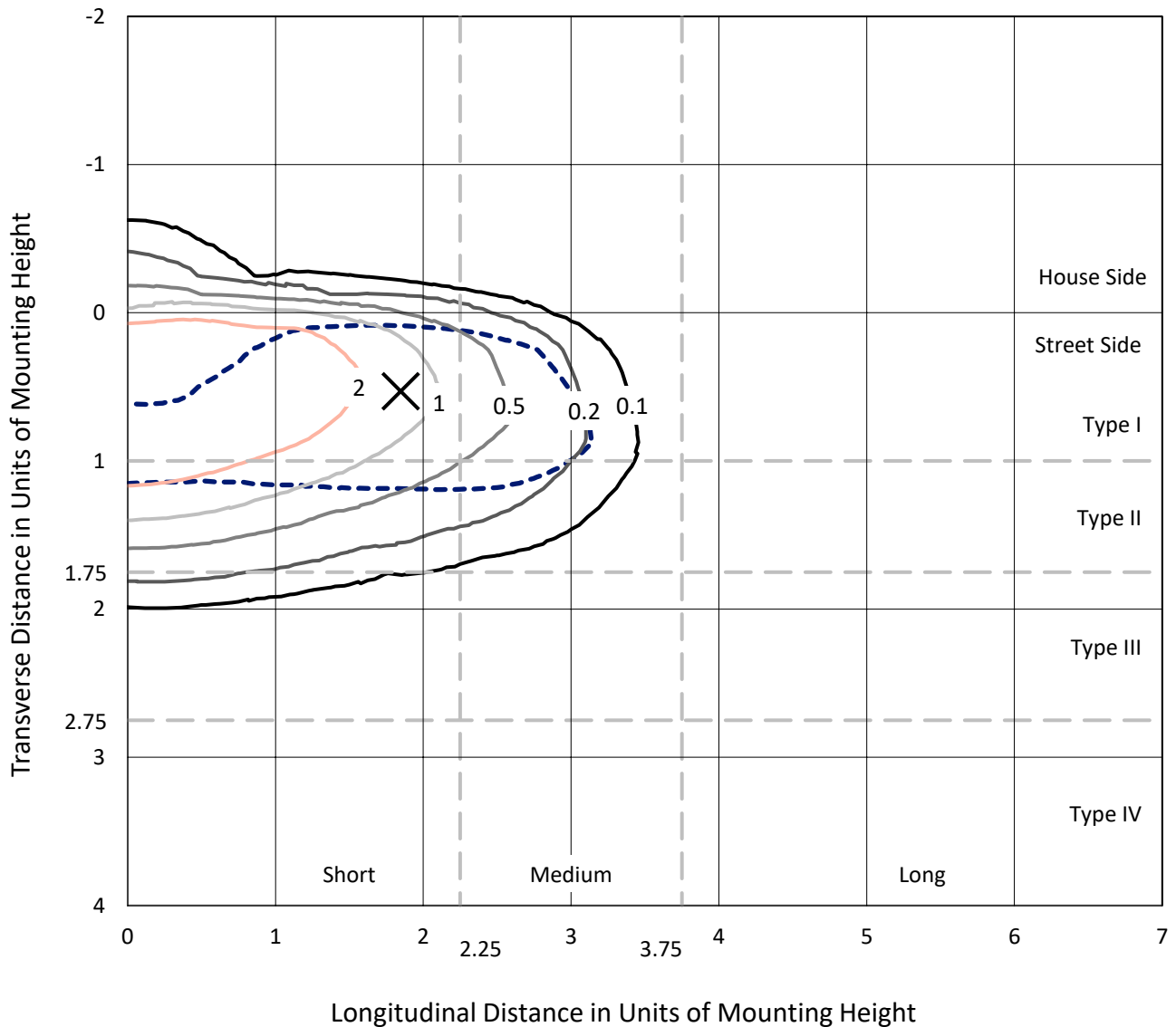
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

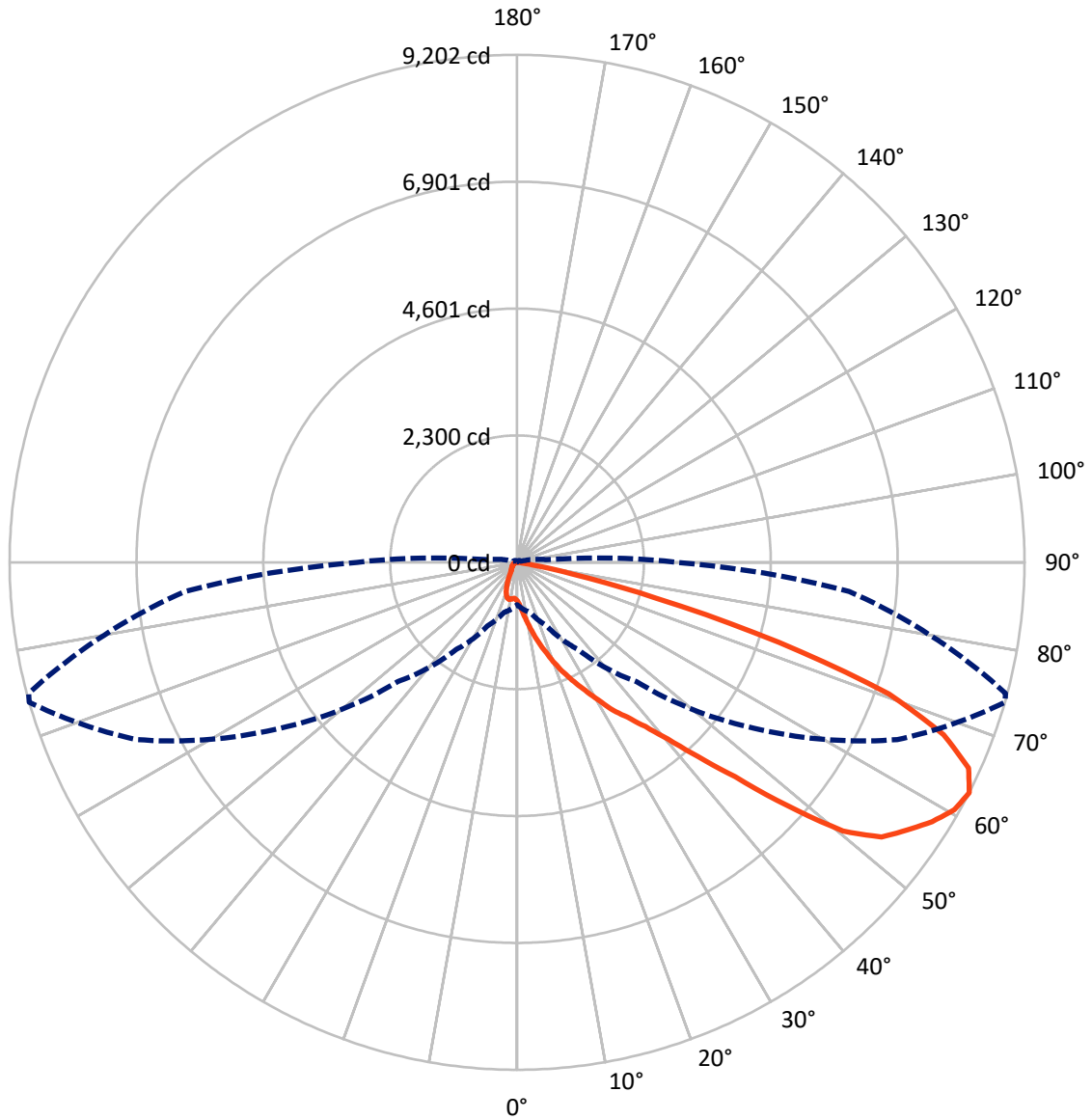
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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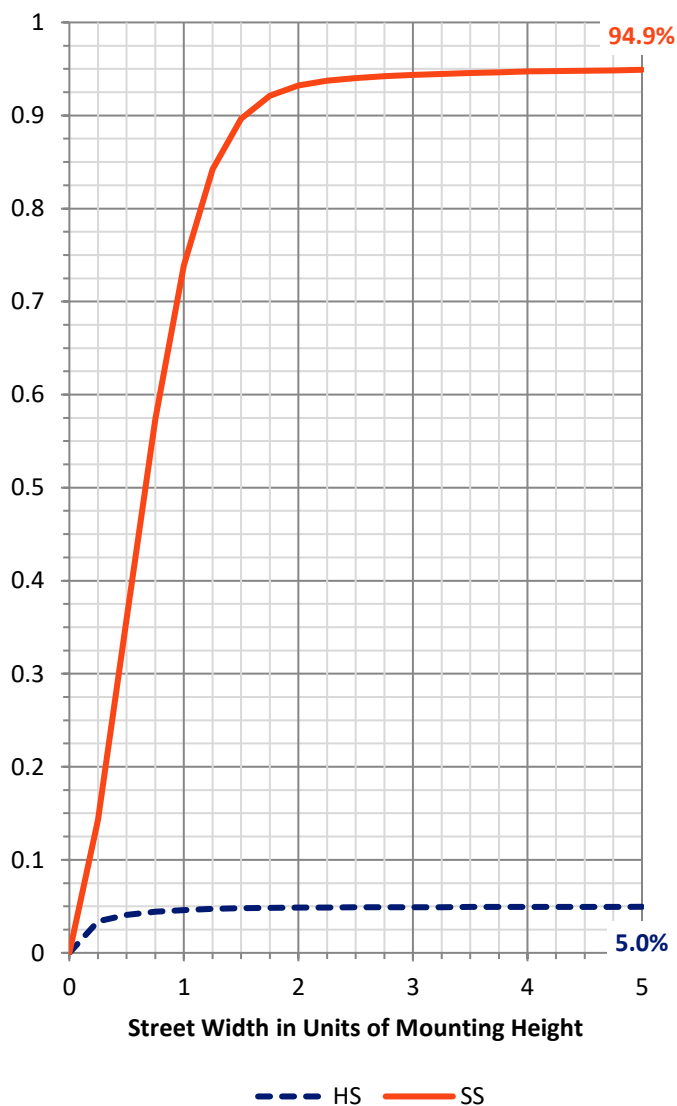
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	476.6	0.0	476.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9079.4	0.0	9079.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	9556.0	0.0	9556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	0.9
10°-20°	367.5	3.8
20°-30°	788.6	8.3
30°-40°	1383.1	14.5
40°-50°	2144.2	22.4
50°-60°	2471.9	25.9
60°-70°	1736.5	18.2
70°-80°	541.0	5.7
80°-90°	35.8	0.4
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°	9556.0	100.0
0°-180°	9556.0	100.0

Coefficient of Utilization

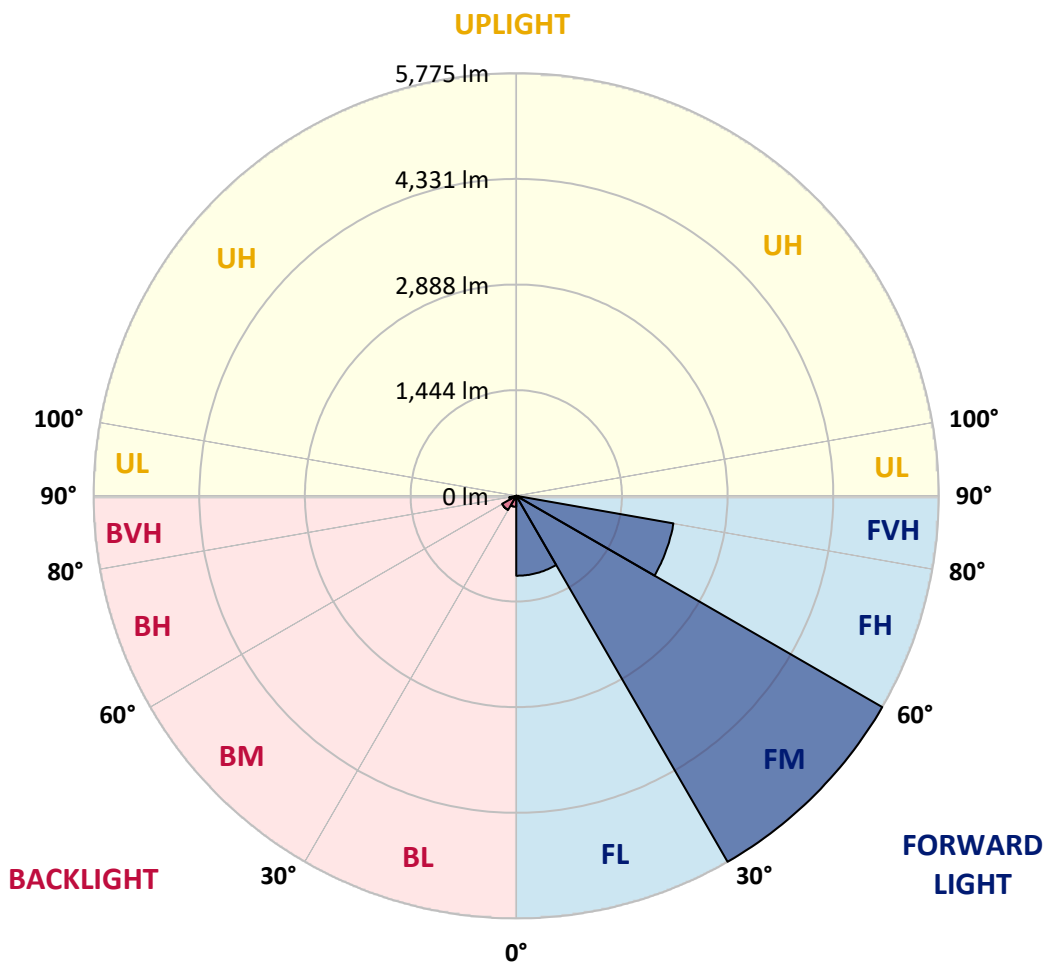


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1092.3	11.4			
FM (30°-60°)	5775.1	60.4			
FH (60°-80°)	2181.1	22.8			G2/5000
FVH (80°-90°)	30.8	0.3			G1/100
BL (0°-30°)	151.3	1.6	B1/500		
BM (30°-60°)	224.0	2.3	B1/1000		
BH (60°-80°)	96.5	1.0	B0/110		G0/110
BVH (80°-90°)	4.9	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5
2.5°	971.9	955.1	934.9	918.1	884.5	861.0	830.7	797.1	760.1	756.7	726.4
5°	1362.1	1311.6	1311.6	1267.9	1217.4	1126.6	1042.6	938.3	861.0	854.2	773.5
7.5°	1762.3	1721.9	1698.4	1631.1	1550.4	1449.5	1315.0	1140.1	998.8	975.3	844.1
10°	2135.6	2105.3	2061.6	2007.8	1937.2	1772.4	1604.2	1375.5	1150.2	1133.4	928.2
12.5°	2424.8	2387.8	2367.6	2344.1	2253.3	2122.1	1903.5	1614.3	1345.2	1308.3	1012.3
15°	2643.4	2626.6	2606.4	2606.4	2559.3	2431.5	2206.2	1869.9	1533.6	1489.9	1119.9
17.5°	2818.3	2798.1	2794.8	2814.9	2801.5	2710.7	2498.8	2115.4	1728.6	1695.0	1230.9
20°	3013.4	2986.4	2986.4	3003.3	2999.9	2949.5	2764.5	2397.9	1957.3	1896.8	1358.7
22.5°	3289.1	3272.3	3258.9	3232.0	3211.8	3164.7	3003.3	2673.7	2175.9	2118.8	1489.9
25°	3659.1	3638.9	3578.4	3531.3	3443.8	3373.2	3235.3	2919.2	2397.9	2334.0	1617.7
27.5°	4018.9	3978.6	3921.4	3860.9	3763.3	3642.3	3470.7	3151.2	2630.0	2562.7	1748.8
30°	4399.0	4368.7	4298.1	4200.5	4079.5	3944.9	3739.8	3430.4	2895.6	2821.7	1890.1
32.5°	4701.6	4654.6	4590.7	4496.5	4372.1	4277.9	4055.9	3736.4	3201.7	3104.2	2038.0
35°	4943.8	4906.8	4822.7	4731.9	4637.7	4610.8	4368.7	3985.3	3447.2	3356.4	2196.1
37.5°	5098.5	5061.5	4990.9	4900.1	4863.1	4910.2	4752.1	4325.0	3776.8	3662.4	2377.7
40°	5219.6	5175.8	5118.7	5078.3	5064.9	5196.0	5179.2	4765.5	4210.6	4143.4	2626.6
42.5°	5307.0	5263.3	5226.3	5222.9	5310.4	5566.0	5754.3	5381.0	4816.0	4678.1	2946.1
45°	5196.0	5159.0	5179.2	5296.9	5508.8	5912.4	6450.5	6252.0	5545.8	5448.3	3457.3
47.5°	4886.6	4863.1	4953.9	5169.1	5562.6	6124.2	7123.1	7207.2	6588.3	6440.4	4119.8
50°	4402.3	4399.0	4543.6	4836.2	5394.4	6205.0	7462.8	8125.3	7657.8	7506.5	4657.9
52.5°	3746.5	3733.1	3944.9	4351.9	4997.6	6053.6	7526.7	8491.9	8276.6	8098.4	4997.6
55°	3003.3	2973.0	3225.2	3672.5	4412.4	5613.0	7355.1	8572.6	8572.6	8411.2	5249.8
57.5°	2112.0	2159.1	2367.6	2905.7	3689.3	4953.9	6931.4	8498.6	8871.9	8734.0	5589.5
60°	1331.8	1352.0	1580.7	2014.5	2798.1	4072.7	6174.7	8179.1	9110.7	9030.0	5861.9
62.5°	766.8	830.7	945.0	1274.6	1930.4	3060.4	5239.7	7604.0	9201.5	9167.9	6040.2
65°	467.5	474.2	528.0	719.7	1187.2	2088.5	4193.8	6803.6	8996.3	9026.6	6006.5
67.5°	349.8	349.8	366.6	454.0	676.0	1328.4	3094.1	5831.6	8340.5	8438.1	5690.4
70°	302.7	302.7	306.0	332.9	417.0	787.0	2044.8	4701.6	7150.0	7139.9	4701.6
72.5°	238.8	248.9	269.0	282.5	316.1	460.7	1197.3	3285.8	4967.3	5085.0	3026.8
75°	191.7	195.1	222.0	245.5	265.7	312.8	565.0	1826.2	2606.4	2606.4	1331.8
77.5°	148.0	154.7	171.5	195.1	222.0	222.0	235.4	706.3	1008.9	975.3	393.5
80°	94.2	97.5	124.4	154.7	185.0	158.1	127.8	235.4	275.8	265.7	107.6
82.5°	57.2	60.5	80.7	124.4	124.4	87.4	80.7	97.5	87.4	80.7	43.7
85°	16.8	20.2	57.2	80.7	70.6	33.6	40.4	43.7	40.4	37.0	23.5
87.5°	3.4	3.4	16.8	20.2	16.8	16.8	13.5	16.8	16.8	16.8	10.1
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°	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5
2.5°	709.6	696.2	669.3	649.1	632.3	615.5	602.0	598.6	591.9	591.9	588.5
5°	739.9	709.6	659.2	625.5	598.6	575.1	554.9	534.7	528.0	521.3	524.6
7.5°	787.0	739.9	669.3	618.8	571.7	517.9	474.2	437.2	410.3	403.6	393.5
10°	847.5	776.9	686.1	605.4	517.9	423.8	363.2	326.2	312.8	296.0	299.3
12.5°	908.0	820.6	699.5	568.4	427.1	332.9	282.5	259.0	248.9	245.5	248.9
15°	978.7	867.7	692.8	501.1	343.0	269.0	238.8	228.7	222.0	222.0	218.6
17.5°	1049.3	908.0	669.3	413.7	275.8	228.7	215.2	205.2	198.4	195.1	195.1
20°	1126.6	945.0	615.5	329.6	228.7	208.5	195.1	181.6	174.9	174.9	174.9
22.5°	1207.4	971.9	544.8	262.3	205.2	185.0	171.5	161.4	154.7	154.7	154.7
25°	1278.0	985.4	460.7	218.6	188.3	168.2	154.7	144.6	141.3	137.9	137.9
27.5°	1345.2	982.0	373.3	191.7	168.2	151.3	137.9	131.2	124.4	124.4	124.4
30°	1412.5	961.9	296.0	174.9	154.7	134.5	124.4	117.7	114.3	111.0	111.0
32.5°	1469.7	928.2	232.1	161.4	141.3	121.1	111.0	104.3	104.3	100.9	100.9
35°	1526.9	877.8	195.1	151.3	127.8	111.0	100.9	97.5	94.2	94.2	94.2
37.5°	1587.4	813.9	171.5	137.9	114.3	100.9	94.2	90.8	87.4	84.1	84.1
40°	1661.4	750.0	161.4	127.8	104.3	90.8	84.1	80.7	77.4	77.4	77.4
42.5°	1779.1	696.2	151.3	114.3	94.2	84.1	77.4	70.6	70.6	67.3	67.3
45°	2001.1	676.0	141.3	104.3	87.4	74.0	70.6	63.9	60.5	60.5	60.5
47.5°	2290.3	679.3	131.2	94.2	80.7	67.3	63.9	60.5	53.8	53.8	53.8
50°	2529.1	662.5	121.1	87.4	70.6	63.9	57.2	53.8	50.4	50.4	50.4
52.5°	2623.2	632.3	111.0	80.7	67.3	57.2	53.8	50.4	47.1	47.1	47.1
55°	2717.4	618.8	100.9	70.6	60.5	57.2	50.4	47.1	43.7	40.4	40.4
57.5°	2888.9	625.5	90.8	67.3	57.2	53.8	47.1	40.4	33.6	30.3	30.3
60°	2979.7	602.0	84.1	60.5	53.8	50.4	40.4	30.3	23.5	20.2	20.2
62.5°	2902.4	534.7	77.4	57.2	50.4	43.7	30.3	23.5	16.8	10.1	10.1
65°	2687.1	440.6	70.6	53.8	43.7	33.6	26.9	16.8	10.1	6.7	6.7
67.5°	2414.7	346.4	63.9	50.4	40.4	30.3	23.5	13.5	6.7	3.4	3.4
70°	1950.6	248.9	60.5	47.1	37.0	26.9	20.2	13.5	6.7	3.4	3.4
72.5°	1257.8	161.4	53.8	43.7	33.6	26.9	16.8	10.1	6.7	3.4	3.4
75°	581.8	107.6	50.4	40.4	33.6	23.5	16.8	13.5	6.7	3.4	3.4
77.5°	171.5	77.4	47.1	37.0	30.3	23.5	16.8	13.5	6.7	3.4	3.4
80°	70.6	53.8	37.0	33.6	30.3	23.5	16.8	13.5	6.7	3.4	3.4
82.5°	33.6	23.5	16.8	13.5	16.8	16.8	13.5	13.5	6.7	3.4	3.4
85°	16.8	10.1	6.7	6.7	6.7	3.4	3.4	6.7	6.7	3.4	3.4
87.5°	10.1	6.7	6.7	6.7	3.4	3.4	3.4	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)