

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: P348991

Luminaire Tested: **ARCH-N-PA1-30-740-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-30-740-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3141 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

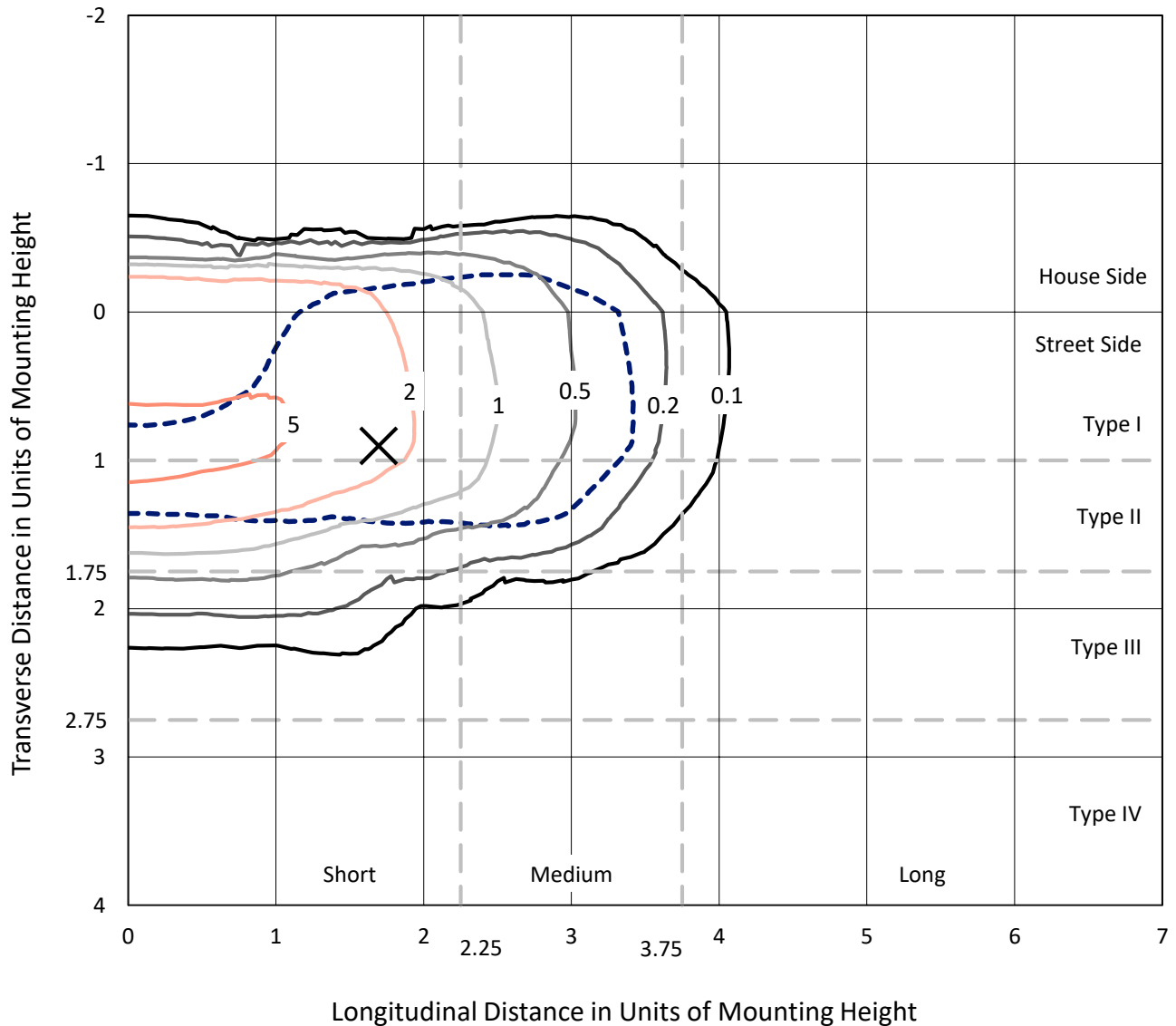
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

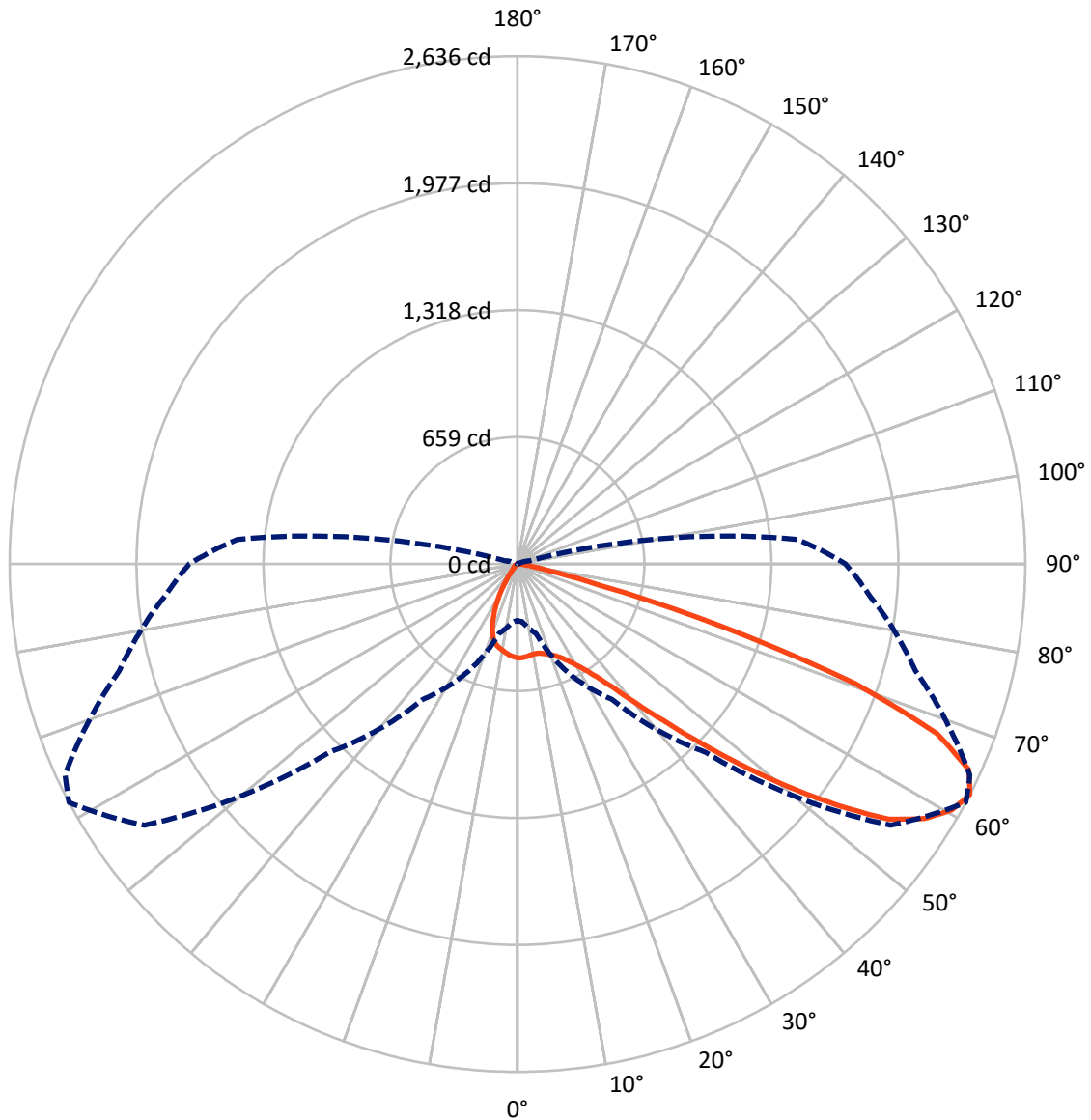
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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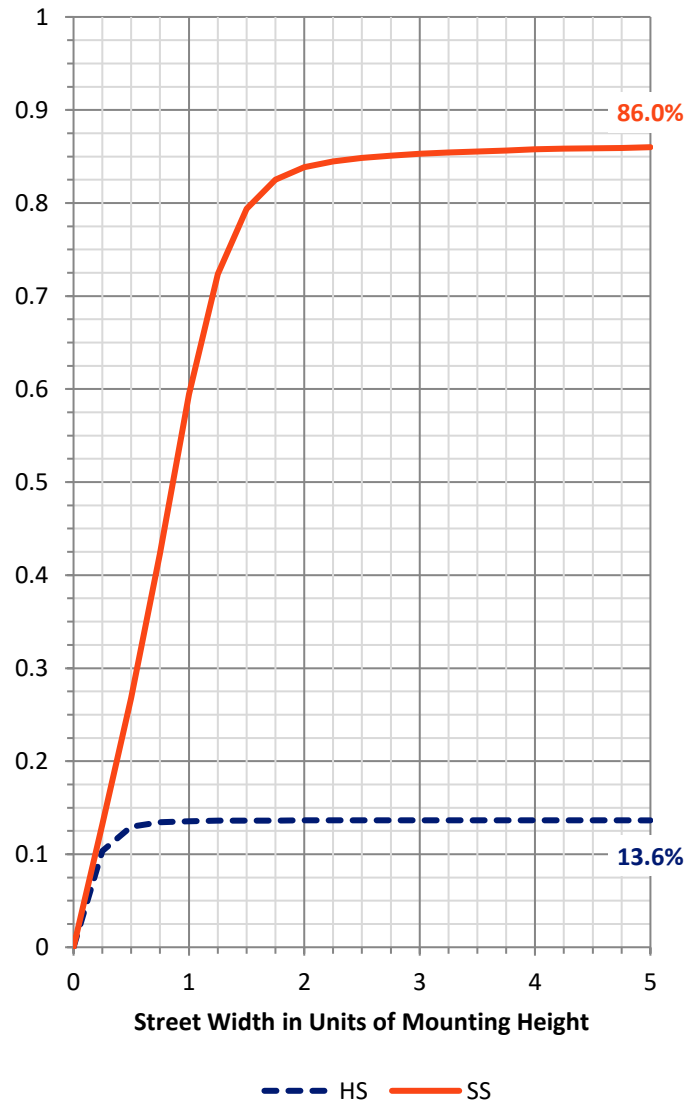
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	433.7	0.0	433.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	2707.3	0.0	2707.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	3141.0	0.0	3141.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	1.4
10°-20°	111.6	3.6
20°-30°	166.6	5.3
30°-40°	317.4	10.1
40°-50°	661.8	21.1
50°-60°	879.2	28.0
60°-70°	685.4	21.8
70°-80°	259.1	8.2
80°-90°	15.5	0.5
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°	3141.0	100.0
0°-180°	3141.0	100.0



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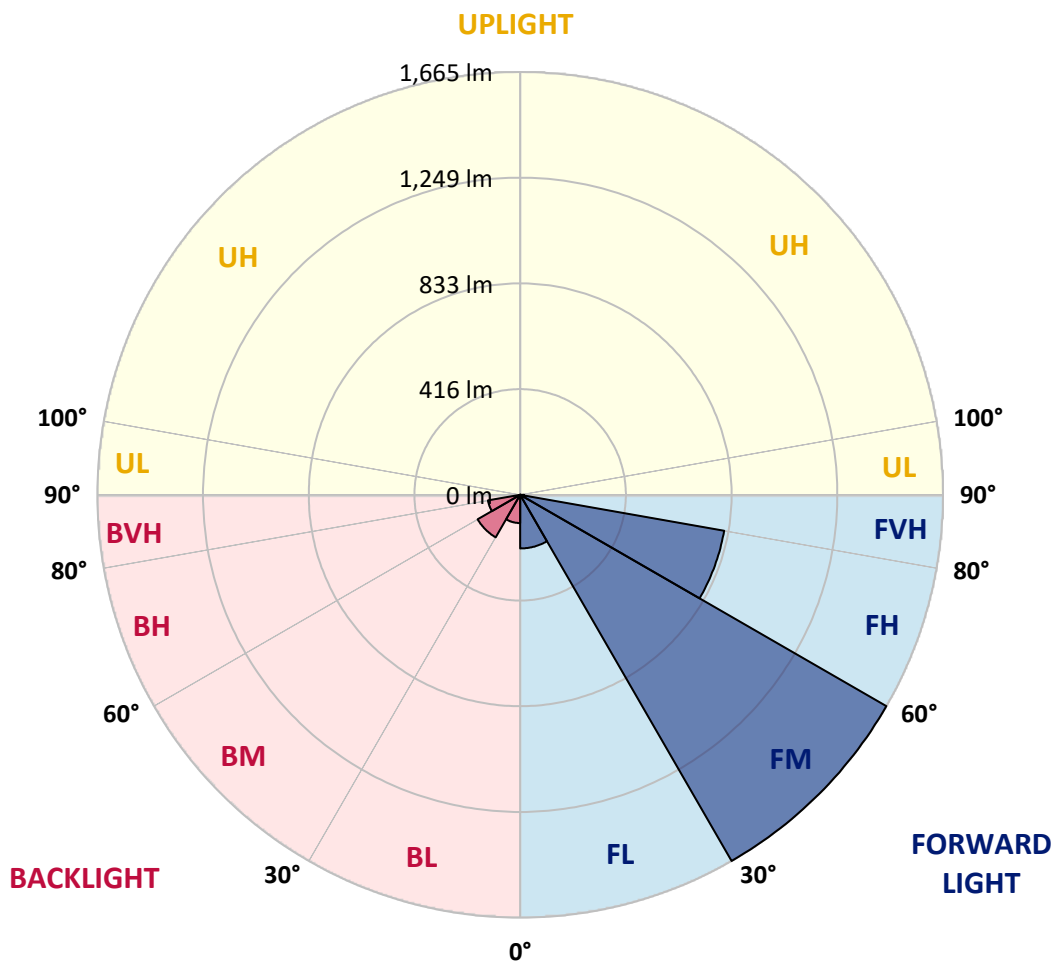
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.4	6.7			
FM	(30°-60°)	1665.4	53.0			
FH	(60°-80°)	815.8	26.0			G1/1800
FVH	(80°-90°)	14.8	0.5			G1/100
BL	(0°-30°)	111.2	3.5	B1/500		
BM	(30°-60°)	193.1	6.1	B0/220		
BH	(60°-80°)	128.6	4.1	B1/500		G1/500
BVH	(80°-90°)	0.7	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
2.5°	486.3	485.5	487.6	487.6	487.2	488.0	487.2	486.7	486.3	485.5	484.7
5°	473.6	473.6	476.5	477.7	479.0	481.4	482.2	483.1	482.6	483.5	483.9
7.5°	458.8	459.7	462.9	464.6	466.6	471.6	474.4	477.7	478.1	481.0	482.6
10°	446.5	447.3	450.6	452.7	455.6	462.1	468.3	474.0	474.8	480.2	481.4
12.5°	438.3	439.1	442.4	445.3	451.5	459.7	468.3	474.8	476.9	483.5	483.5
15°	435.0	435.9	440.0	444.9	453.1	463.8	474.4	481.4	485.5	490.9	488.4
17.5°	433.8	435.4	442.4	449.8	458.8	470.3	483.5	490.9	495.0	500.7	495.4
20°	437.5	439.6	448.6	458.8	468.3	480.2	494.5	502.8	506.9	510.6	500.3
22.5°	450.6	453.9	461.7	473.2	480.6	495.0	509.3	518.8	523.3	522.9	509.3
25°	482.2	486.3	490.0	496.2	499.5	516.7	531.9	541.3	544.6	543.4	527.8
27.5°	556.9	562.3	549.1	535.6	528.2	544.2	561.0	570.9	573.8	571.3	547.5
30°	682.9	683.3	653.4	610.7	579.1	577.4	598.0	611.1	611.1	606.2	575.4
32.5°	866.4	853.2	815.5	740.0	668.6	631.2	646.8	659.5	659.5	653.4	618.1
35°	1097.0	1087.2	1024.8	934.1	806.9	717.4	714.1	726.4	726.8	725.2	685.0
37.5°	1331.8	1307.6	1255.4	1146.7	997.3	850.0	810.6	819.2	825.3	824.5	774.4
40°	1550.1	1525.9	1482.0	1377.3	1231.2	1045.3	950.9	950.9	951.3	947.2	886.9
42.5°	1721.7	1710.6	1677.8	1605.1	1492.3	1352.7	1140.1	1108.9	1102.4	1098.3	1019.1
45°	1832.9	1821.4	1803.8	1788.6	1752.0	1702.0	1394.2	1312.5	1301.8	1261.6	1165.2
47.5°	1839.1	1821.4	1833.3	1890.8	1973.3	1999.1	1707.7	1549.7	1521.4	1448.8	1311.7
50°	1702.0	1703.6	1750.0	1889.5	2112.4	2259.7	2040.2	1810.7	1766.0	1620.7	1441.0
52.5°	1450.0	1466.4	1538.2	1752.9	2119.0	2426.4	2329.5	2080.0	1991.3	1775.0	1532.1
55°	1135.2	1150.0	1267.4	1499.6	1959.3	2450.2	2540.0	2337.7	2220.3	1882.6	1613.7
57.5°	802.8	830.7	976.4	1189.8	1654.8	2268.3	2597.5	2492.0	2378.3	1987.2	1690.5
60°	488.0	501.9	653.4	901.7	1247.2	1887.9	2530.2	2590.5	2498.6	2077.9	1762.3
62.5°	293.4	301.7	374.3	621.0	858.2	1382.3	2363.6	2635.7	2590.5	2138.2	1831.3
65°	173.6	178.9	213.0	375.1	571.7	847.9	2003.6	2573.7	2610.2	2190.4	1871.5
67.5°	125.2	126.8	139.1	201.9	383.7	454.3	1393.3	2348.0	2484.6	2207.6	1847.7
70°	107.9	110.0	121.9	142.0	271.7	268.0	725.2	1858.3	2106.2	2117.7	1747.1
72.5°	81.7	85.4	105.1	133.4	194.9	190.4	273.3	1108.1	1429.9	1738.5	1506.2
75°	55.4	57.5	78.0	113.3	152.3	142.0	143.2	444.9	699.3	1090.1	1035.1
77.5°	34.9	36.5	47.6	81.3	130.5	100.1	101.4	158.0	252.4	462.1	443.7
80°	23.8	24.6	28.7	52.5	88.2	87.0	65.3	82.5	94.0	142.4	95.6
82.5°	14.4	14.4	18.9	31.2	53.4	68.9	41.0	45.6	50.1	52.9	21.8
85°	4.9	5.3	11.5	19.3	32.8	34.5	23.4	27.1	28.3	30.8	10.3
87.5°	2.1	1.6	6.2	10.7	14.0	16.0	13.5	12.3	13.5	18.1	4.5
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°	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
2.5°	485.1	483.5	483.5	483.1	480.6	479.4	478.1	474.8	476.9	474.4	472.8
5°	482.6	481.4	479.4	477.3	471.6	466.6	464.6	460.5	460.1	456.8	455.1
7.5°	482.2	479.4	476.1	469.1	460.5	452.7	445.7	438.7	435.9	432.2	430.1
10°	480.2	476.5	470.3	459.3	446.5	434.2	418.6	399.3	385.0	376.8	375.5
12.5°	480.6	476.5	467.0	450.6	433.8	406.7	364.9	320.9	284.8	269.6	267.2
15°	483.9	479.4	465.0	442.8	414.1	354.6	277.8	210.5	163.8	146.9	143.2
17.5°	488.0	480.2	460.5	431.8	376.3	275.0	174.8	110.4	84.1	74.7	73.1
20°	490.4	479.8	453.1	414.9	318.9	183.9	95.2	64.8	57.0	55.0	54.2
22.5°	496.6	481.0	446.9	388.7	246.7	110.8	60.3	50.5	46.0	43.5	43.1
25°	509.3	489.2	447.3	354.6	172.8	66.9	48.8	41.0	36.9	34.5	33.7
27.5°	527.8	504.0	455.1	312.3	106.7	50.5	40.6	33.2	28.7	26.7	26.3
30°	551.2	522.0	464.2	257.3	66.5	42.3	32.8	25.9	22.6	21.3	20.9
32.5°	588.1	553.2	472.0	192.5	46.0	34.9	25.9	20.5	18.5	17.2	17.2
35°	649.3	607.0	484.7	128.9	36.5	27.9	20.9	16.8	15.2	14.4	14.4
37.5°	735.5	683.7	490.9	80.0	30.0	21.8	16.8	14.0	12.7	11.9	11.9
40°	840.5	776.9	482.2	49.7	25.0	17.6	14.0	11.9	10.7	10.3	10.3
42.5°	961.6	884.0	455.1	35.3	20.9	14.4	11.9	10.3	9.4	9.0	9.0
45°	1097.0	1001.4	406.3	29.5	17.6	12.3	10.3	8.6	8.2	7.8	7.8
47.5°	1232.1	1120.4	343.1	25.4	14.8	10.3	8.6	7.4	7.0	6.6	6.6
50°	1349.8	1224.7	276.2	22.2	12.3	9.0	7.4	6.2	5.7	5.3	5.3
52.5°	1417.2	1286.6	213.8	18.5	10.7	7.8	5.7	4.9	4.5	4.1	4.1
55°	1489.8	1338.4	159.7	15.6	8.6	6.6	4.5	3.7	3.3	2.9	2.9
57.5°	1557.5	1384.7	118.6	12.7	7.4	4.9	3.7	2.9	2.5	2.1	2.1
60°	1623.2	1424.1	87.8	10.3	6.2	4.1	2.9	2.1	1.6	1.2	1.2
62.5°	1703.2	1460.2	64.4	8.2	5.3	2.9	2.1	1.2	0.8	0.4	0.4
65°	1762.7	1478.7	48.4	6.2	4.5	2.1	1.2	0.8	0.0	0.0	0.0
67.5°	1762.3	1443.0	35.3	4.5	3.3	1.6	0.8	0.0	0.0	0.0	0.0
70°	1679.8	1334.7	24.6	3.7	2.5	1.2	0.4	0.0	0.0	0.0	0.0
72.5°	1440.5	1055.6	16.0	2.5	2.1	0.8	0.4	0.0	0.0	0.0	0.0
75°	972.3	536.0	9.4	2.1	1.6	0.8	0.4	0.0	0.0	0.0	0.0
77.5°	415.7	210.5	4.9	1.2	1.2	0.4	0.0	0.0	0.0	0.0	0.0
80°	87.0	50.9	2.1	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	14.8	7.4	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	2.1	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.8	0.4	0.4	0.0	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)