

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: P572979

Luminaire Tested: **ARCH-S-PA2-20-730-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-20-730-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2310 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

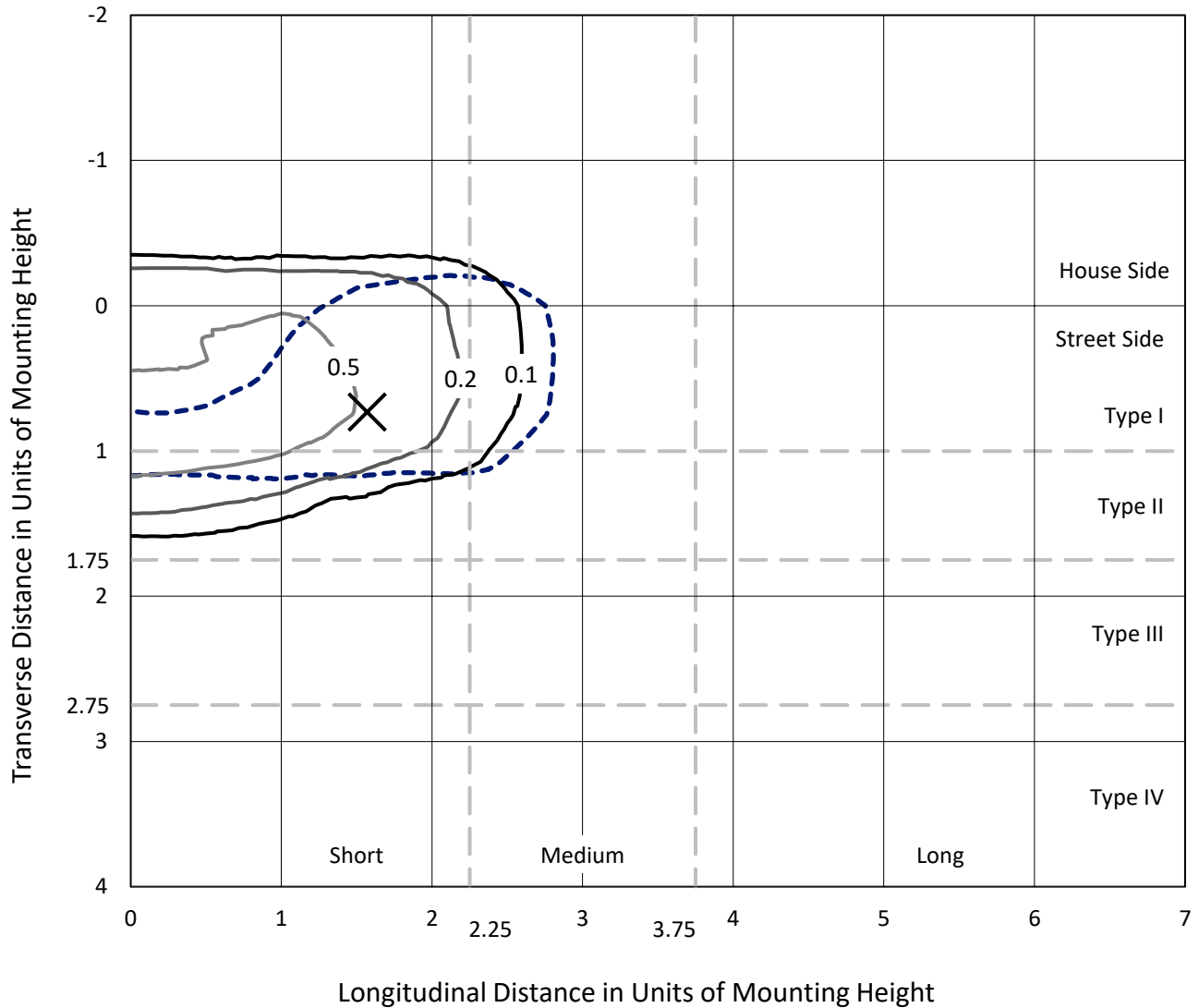
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

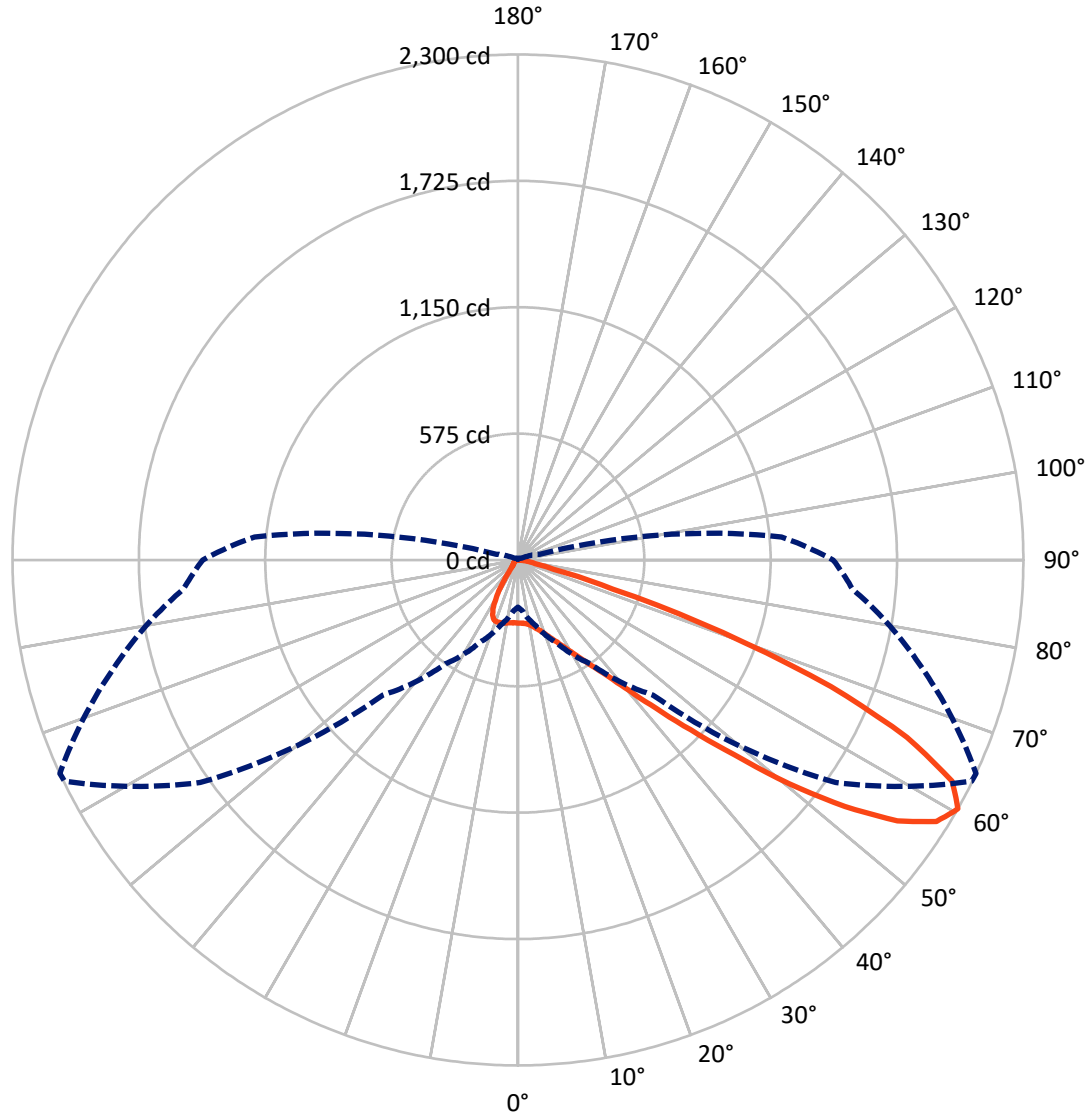
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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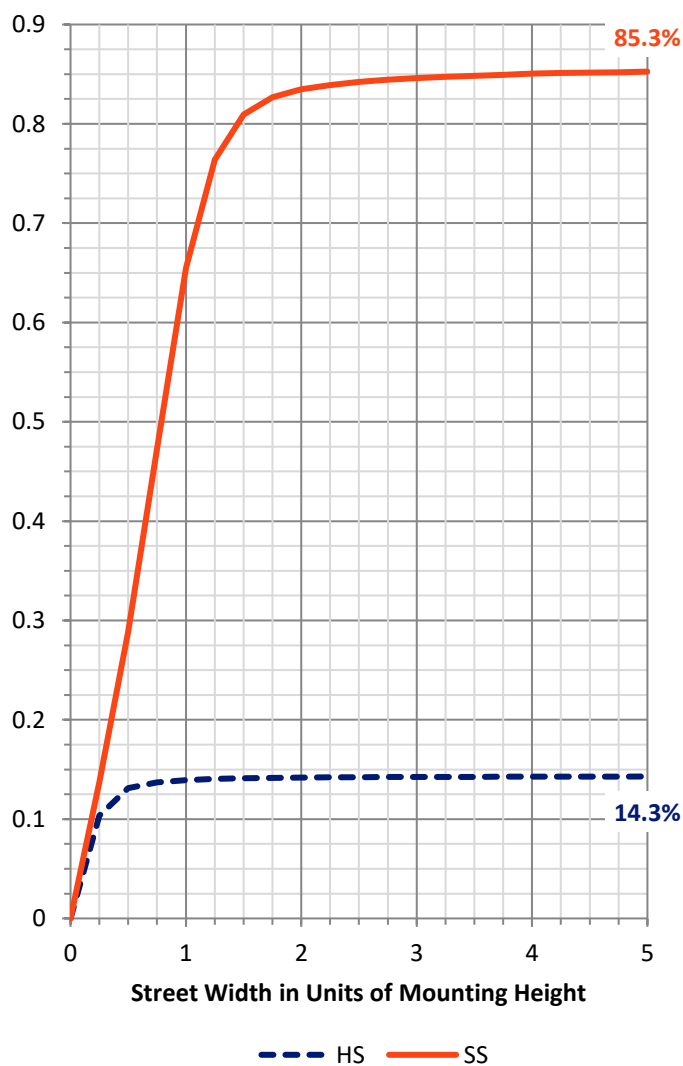
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	334.4	0.0	334.4
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	1975.6	0.0	1975.6
	% Fixture	85.5	0.0	85.5
Total	Lumens	2310.0	0.0	2310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	1.2
10°-20°	77.2	3.3
20°-30°	131.1	5.7
30°-40°	270.5	11.7
40°-50°	543.9	23.5
50°-60°	665.6	28.8
60°-70°	470.9	20.4
70°-80°	113.5	4.9
80°-90°	10.2	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°	2310.0	100.0
0°-180°	2310.0	100.0

Coefficient of Utilization

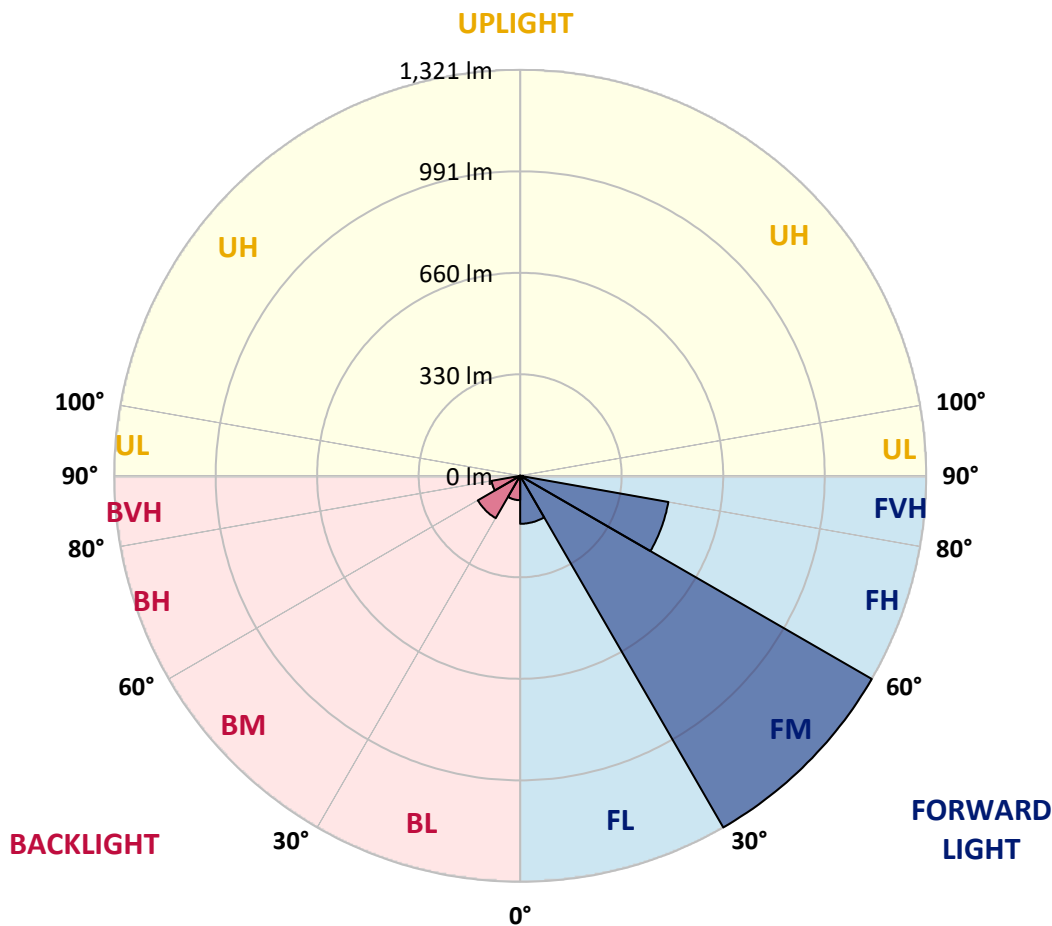


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.1	6.8			
FM (30°-60°)	1321.0	57.2			
FH (60°-80°)	489.6	21.2			G0/660
FVH (80°-90°)	8.9	0.4			G0/10
BL (0°-30°)	79.3	3.4	B0/110		
BM (30°-60°)	159.0	6.9	B0/220		
BH (60°-80°)	94.8	4.1	B0/110		G0/110
BVH (80°-90°)	1.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	287.8	287.8	287.8	287.8	287.8	287.8	287.8	287.8	287.8	287.8	287.8
2.5°	288.7	287.8	287.8	287.8	288.7	288.7	289.6	287.8	287.8	287.8	287.8
5°	286.9	285.9	285.9	286.9	287.8	287.8	289.6	289.6	289.6	290.5	290.5
7.5°	290.5	288.7	288.7	289.6	290.5	290.5	292.3	293.2	293.2	295.1	296.0
10°	295.1	294.1	294.1	296.0	297.8	297.8	300.5	300.5	300.5	302.3	303.2
12.5°	301.4	300.5	300.5	303.2	306.0	307.8	309.6	310.5	311.4	311.4	311.4
15°	310.5	309.6	309.6	312.4	316.0	320.6	323.3	323.3	325.1	324.2	320.6
17.5°	323.3	322.4	323.3	325.1	329.7	334.2	339.7	340.6	339.7	337.9	332.4
20°	344.2	341.5	343.3	347.9	347.9	350.6	357.9	360.6	361.5	356.1	346.1
22.5°	366.1	366.1	367.9	373.4	369.7	373.4	379.7	384.3	386.1	381.6	365.2
25°	407.1	408.9	406.2	404.3	395.2	397.0	405.2	414.3	414.3	410.7	387.0
27.5°	497.2	495.4	476.3	449.9	426.2	428.0	436.2	448.0	449.0	440.8	408.9
30°	626.5	628.4	591.0	530.9	479.0	465.3	474.5	488.1	489.9	476.3	437.1
32.5°	828.7	813.2	744.0	663.9	566.4	517.3	520.9	535.5	540.9	529.1	481.7
35°	1090.1	1053.6	949.8	850.6	709.4	610.1	581.9	597.4	600.1	593.7	537.3
37.5°	1245.8	1216.6	1149.3	1059.1	893.4	734.0	662.0	677.5	674.8	662.0	592.8
40°	1342.3	1325.9	1289.5	1247.6	1142.0	928.9	794.1	781.3	782.3	764.0	683.0
42.5°	1397.0	1382.4	1368.7	1379.6	1348.7	1282.2	985.3	927.1	921.6	887.0	787.7
45°	1399.7	1377.8	1394.2	1458.0	1507.1	1595.5	1234.9	1100.1	1102.8	1045.4	917.9
47.5°	1295.0	1277.7	1325.0	1449.8	1612.8	1800.4	1525.4	1336.8	1324.1	1211.2	1050.0
50°	1088.2	1087.3	1150.2	1326.8	1612.8	1906.0	1836.8	1614.6	1600.9	1384.2	1170.2
52.5°	861.5	878.8	921.6	1089.1	1464.3	1896.0	2066.3	1901.5	1863.2	1538.1	1270.4
55°	670.2	663.9	715.8	831.4	1161.1	1723.0	2141.0	2127.3	2095.4	1674.7	1358.7
57.5°	411.6	435.3	505.4	608.3	845.1	1355.1	2033.5	2264.8	2245.7	1802.2	1450.7
60°	214.0	232.2	307.8	415.3	577.4	868.8	1764.9	2296.7	2300.3	1905.1	1529.0
62.5°	134.8	133.9	168.5	291.4	371.5	488.1	1370.5	2183.8	2218.4	1984.3	1603.7
65°	101.1	102.0	115.7	193.1	252.3	255.0	813.2	1888.7	1946.1	2005.3	1629.2
67.5°	93.8	94.7	101.1	126.6	189.4	170.3	357.9	1456.1	1536.3	1812.2	1530.8
70°	83.8	84.7	94.7	104.7	143.0	124.8	161.2	877.0	988.1	1315.0	1224.8
72.5°	65.6	67.4	79.2	99.3	106.5	94.7	112.0	387.9	452.6	723.1	701.2
75°	48.3	49.2	60.1	76.5	93.8	67.4	86.5	153.9	168.5	271.4	231.3
77.5°	33.7	33.7	41.9	57.4	78.3	47.4	61.9	82.9	84.7	101.1	66.5
80°	20.9	21.9	26.4	39.2	48.3	45.5	38.2	55.6	55.6	52.8	27.3
82.5°	11.8	12.7	18.2	26.4	32.8	31.0	24.6	31.9	32.8	33.7	15.5
85°	5.5	6.4	10.9	16.4	19.1	14.6	14.6	16.4	16.4	21.9	9.1
87.5°	0.9	0.9	5.5	7.3	6.4	7.3	7.3	9.1	9.1	10.9	4.6
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°	287.8	287.8	287.8	287.8	287.8	287.8	287.8	287.8	287.8	287.8	287.8
2.5°	286.9	286.9	286.9	285.9	285.9	285.0	283.2	283.2	283.2	283.2	284.1
5°	290.5	289.6	288.7	285.9	284.1	280.5	276.8	275.9	273.2	273.2	274.1
7.5°	295.1	295.1	292.3	287.8	283.2	276.8	270.5	265.9	261.4	260.4	259.5
10°	303.2	301.4	298.7	290.5	283.2	273.2	263.2	251.3	242.2	237.7	235.9
12.5°	309.6	308.7	303.2	294.1	282.3	266.8	244.1	216.7	194.9	183.0	183.0
15°	318.7	316.9	308.7	296.0	279.6	243.1	196.7	154.8	131.1	118.4	116.6
17.5°	327.8	324.2	314.2	296.9	267.7	200.3	137.5	99.3	82.9	76.5	74.7
20°	338.8	332.4	317.8	297.8	238.6	145.7	89.2	66.5	60.1	57.4	58.3
22.5°	353.3	342.4	321.5	292.3	194.9	94.7	62.8	53.7	50.1	47.4	47.4
25°	371.5	356.1	327.8	276.8	141.2	63.7	50.1	44.6	41.0	39.2	38.2
27.5°	387.9	368.8	334.2	249.5	90.2	50.1	41.9	37.3	33.7	32.8	31.9
30°	409.8	383.4	340.6	205.8	59.2	41.0	35.5	31.0	28.2	27.3	27.3
32.5°	447.1	411.6	352.4	156.6	44.6	35.5	30.1	26.4	24.6	23.7	23.7
35°	490.8	446.2	362.4	109.3	38.2	30.1	25.5	22.8	21.9	20.9	20.9
37.5°	536.4	487.2	364.3	69.2	33.7	26.4	22.8	20.9	19.1	19.1	19.1
40°	618.3	559.1	356.1	46.4	29.1	23.7	20.0	19.1	17.3	17.3	17.3
42.5°	714.0	646.6	335.1	37.3	26.4	20.9	19.1	17.3	15.5	15.5	14.6
45°	837.8	745.8	299.6	32.8	23.7	19.1	17.3	15.5	14.6	13.7	13.7
47.5°	954.4	858.8	265.9	29.1	21.9	18.2	15.5	13.7	12.7	12.7	12.7
50°	1065.5	945.3	226.8	27.3	20.0	17.3	14.6	12.7	11.8	10.9	10.9
52.5°	1145.6	1013.6	190.3	24.6	18.2	15.5	13.7	11.8	10.0	9.1	9.1
55°	1234.9	1082.8	157.5	21.9	17.3	14.6	11.8	10.0	8.2	7.3	7.3
57.5°	1335.0	1150.2	127.5	20.0	16.4	12.7	10.0	8.2	6.4	5.5	5.5
60°	1434.3	1203.9	102.0	18.2	14.6	11.8	9.1	6.4	4.6	3.6	3.6
62.5°	1533.5	1240.3	78.3	16.4	13.7	10.0	7.3	4.6	2.7	1.8	1.8
65°	1574.5	1230.3	58.3	14.6	11.8	8.2	6.4	4.6	2.7	1.8	1.8
67.5°	1460.7	1106.5	41.0	14.6	10.9	8.2	5.5	3.6	1.8	0.9	0.9
70°	1140.1	854.2	30.1	14.6	10.9	8.2	5.5	3.6	1.8	0.9	0.9
72.5°	646.6	475.4	22.8	12.7	10.0	7.3	5.5	3.6	1.8	0.9	0.9
75°	230.4	153.0	17.3	11.8	9.1	6.4	5.5	3.6	1.8	0.9	0.9
77.5°	55.6	39.2	13.7	10.0	8.2	6.4	4.6	3.6	2.7	0.9	0.9
80°	22.8	16.4	10.9	8.2	6.4	5.5	4.6	3.6	1.8	0.9	0.9
82.5°	10.0	8.2	4.6	4.6	3.6	3.6	3.6	3.6	1.8	0.9	0.9
85°	4.6	3.6	1.8	1.8	0.9	0.9	0.9	1.8	1.8	0.9	0.9
87.5°	2.7	1.8	1.8	1.8	0.9	0.9	0.9	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)