

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: P963638

Luminaire Tested: **NVN-SB3A-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3A-827-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10156.7 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

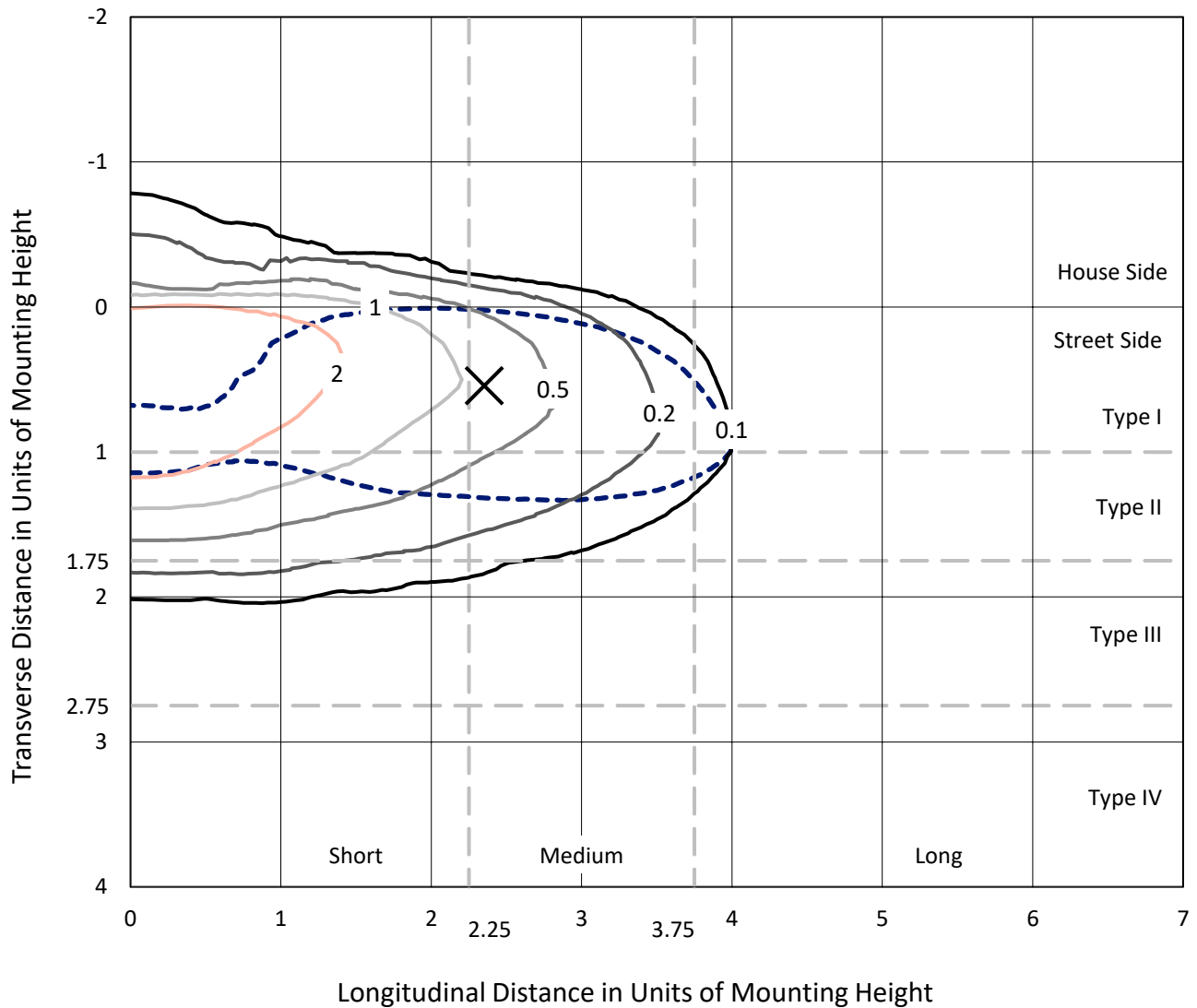
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

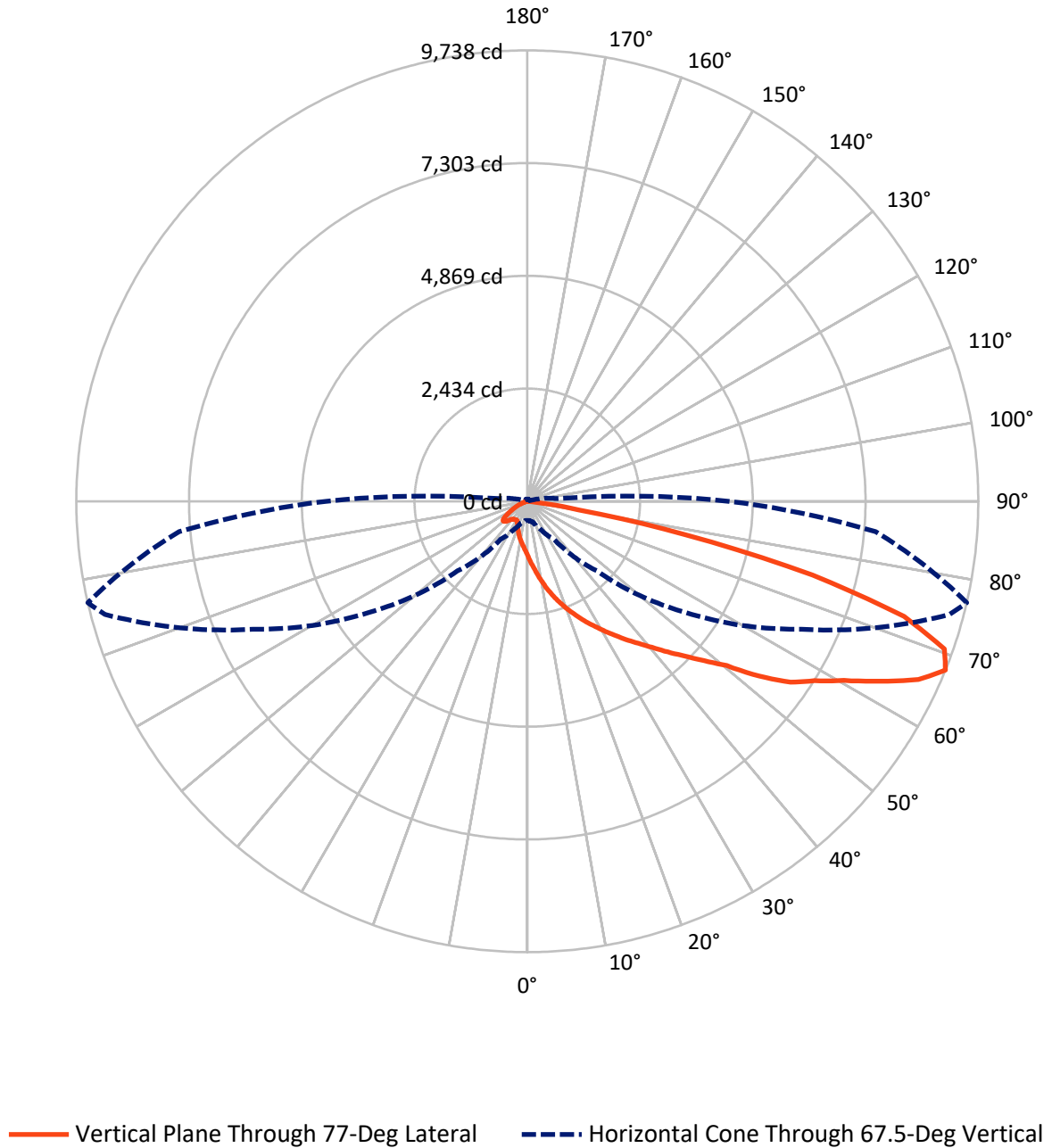
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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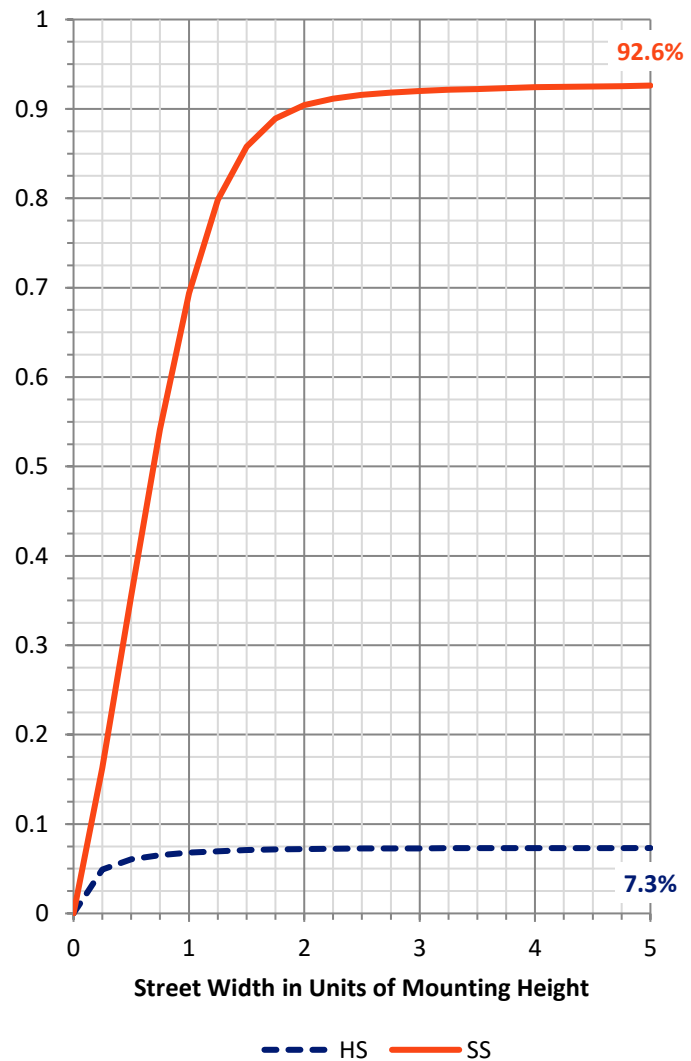
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	747.2	0.0	747.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	9409.5	0.0	9409.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	10156.7	0.0	10156.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	1.2
10°-20°	418.6	4.1
20°-30°	807.8	8.0
30°-40°	1402.4	13.8
40°-50°	2036.2	20.0
50°-60°	2338.4	23.0
60°-70°	2030.1	20.0
70°-80°	956.2	9.4
80°-90°	47.3	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°	10156.7	100.0
0°-180°	10156.7	100.0

Coefficient of Utilization



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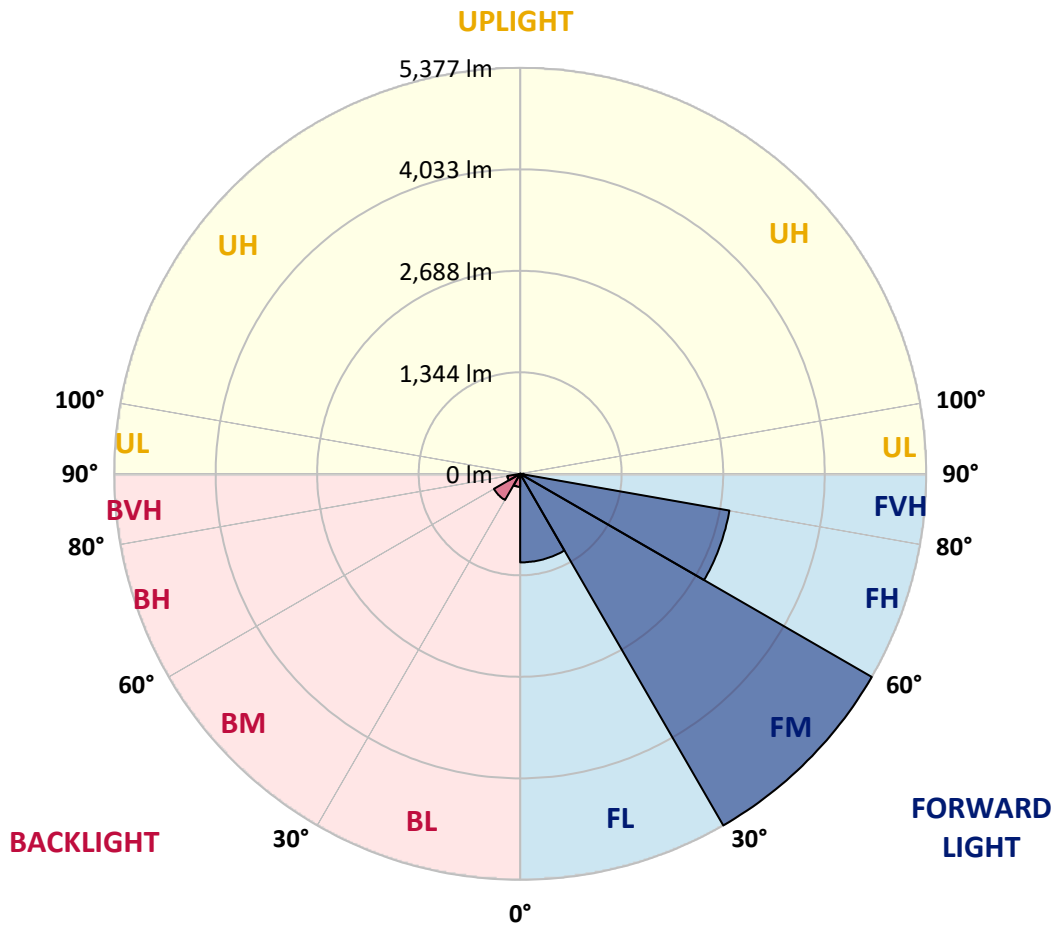
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.0	11.5			
FM (30°-60°)	5376.7	52.9			
FH (60°-80°)	2813.4	27.7			G2/5000
FVH (80°-90°)	46.4	0.5			G1/100
BL (0°-30°)	173.0	1.7	B1/500		
BM (30°-60°)	400.4	3.9	B1/1000		
BH (60°-80°)	173.0	1.7	B1/500		G1/500
BVH (80°-90°)	0.9	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3
2.5°	1621.6	1631.6	1617.1	1589.4	1547.7	1520.6	1454.4	1391.9	1322.6	1300.5	1231.1
5°	1976.6	1985.4	1969.0	1938.8	1883.3	1830.3	1743.3	1612.7	1477.1	1433.6	1310.6
7.5°	2239.6	2244.6	2238.4	2210.6	2157.6	2097.8	2000.6	1846.0	1644.9	1596.9	1408.4
10°	2428.8	2445.2	2443.4	2432.6	2397.3	2348.8	2245.3	2069.4	1832.8	1771.0	1518.7
12.5°	2554.4	2572.6	2583.4	2607.3	2605.4	2574.5	2483.7	2297.6	2020.2	1947.6	1643.0
15°	2590.9	2610.5	2651.5	2707.0	2756.2	2771.9	2708.3	2521.6	2226.4	2133.6	1770.4
17.5°	2570.1	2600.4	2649.6	2737.3	2845.1	2916.3	2909.5	2737.9	2413.7	2307.8	1895.2
20°	2616.2	2645.2	2683.7	2757.5	2882.9	3012.3	3063.9	2944.7	2599.8	2488.8	2026.4
22.5°	2870.9	2865.9	2869.7	2881.7	2956.7	3084.7	3191.3	3132.7	2783.9	2670.4	2165.2
25°	3274.7	3251.9	3213.5	3148.5	3129.5	3191.3	3302.3	3299.3	2978.2	2856.5	2307.1
27.5°	3737.6	3733.8	3643.6	3487.2	3398.9	3374.9	3427.9	3461.3	3170.5	3040.7	2449.6
30°	4181.0	4191.0	4069.4	3895.2	3733.2	3639.2	3591.2	3615.2	3366.1	3239.3	2596.6
32.5°	4566.9	4577.6	4445.2	4241.4	4041.0	3927.4	3826.5	3767.2	3579.3	3441.1	2758.1
35°	4893.0	4903.7	4751.7	4526.6	4312.8	4210.0	4095.8	3933.7	3793.7	3665.0	2937.9
37.5°	5184.3	5181.3	4977.5	4750.5	4540.4	4459.1	4399.2	4138.6	4014.4	3890.2	3137.1
40°	5356.5	5369.9	5195.7	4945.3	4741.6	4682.4	4678.6	4392.8	4269.2	4148.8	3355.3
42.5°	5407.1	5430.3	5304.3	5098.7	4913.8	4849.5	4948.5	4667.8	4565.7	4448.4	3602.0
45°	5316.3	5338.9	5281.5	5138.9	5031.1	4989.5	5180.7	4952.9	4882.3	4766.2	3880.1
47.5°	5051.3	5079.7	5093.5	5063.3	5062.1	5104.3	5388.7	5253.1	5258.1	5139.7	4202.4
50°	4538.6	4586.5	4713.9	4821.1	4987.0	5195.1	5591.2	5578.6	5682.0	5579.9	4622.4
52.5°	3606.4	3674.5	4113.4	4406.8	4779.5	5178.1	5813.8	6100.8	6425.6	6276.2	5214.7
55°	2898.1	2898.1	3255.1	3803.8	4374.6	5065.9	5911.0	6440.2	6932.1	6896.7	5631.6
57.5°	2362.6	2391.0	2618.7	3103.7	3788.6	4798.4	5970.9	6653.3	7340.1	7314.3	6039.0
60°	1458.2	1519.4	1949.5	2428.2	3121.9	4322.2	5933.0	6869.0	7835.2	7856.1	6529.7
62.5°	821.1	843.9	1035.7	1747.0	2427.6	3682.1	5643.5	6989.5	8468.4	8556.8	7035.5
65°	567.0	578.4	652.1	1087.3	1682.7	2931.5	5077.8	6914.4	9102.9	9281.5	7464.4
67.5°	411.8	417.5	463.6	664.1	998.5	2125.4	4191.0	6536.0	9439.1	9737.5	7546.4
70°	316.6	320.4	353.8	436.4	589.7	1311.9	3043.7	5783.6	9195.7	9552.1	7126.3
72.5°	257.4	261.1	287.0	322.9	391.0	775.7	1844.8	4696.9	8121.0	8505.7	6066.8
75°	217.0	222.0	245.4	268.7	306.5	498.3	865.3	3270.9	6107.2	6359.4	4218.8
77.5°	120.4	111.0	199.3	222.6	258.6	315.4	404.9	1925.0	3420.3	3490.3	1872.0
80°	75.0	77.6	158.3	179.2	198.6	159.0	185.4	741.1	1185.7	1126.5	362.6
82.5°	4.4	10.0	121.8	129.3	136.2	68.2	70.0	251.6	285.7	262.4	64.4
85°	0.0	0.0	55.5	44.8	47.3	19.6	20.2	58.6	38.4	41.6	12.6
87.5°	0.0	0.0	0.0	1.2	0.0	1.8	3.8	5.0	1.8	2.6	4.4
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°	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3
2.5°	1186.9	1142.9	1053.3	965.7	894.3	828.1	780.8	736.1	713.3	712.1	710.8
5°	1222.9	1130.3	951.1	792.8	665.4	563.2	497.0	449.7	425.7	417.5	416.3
7.5°	1273.4	1134.0	861.5	641.4	491.3	403.6	365.8	350.7	345.6	340.0	338.7
10°	1337.1	1142.9	781.5	516.5	387.2	343.1	328.0	321.6	317.9	314.1	312.8
12.5°	1408.4	1151.1	702.0	428.9	340.6	317.9	307.2	299.6	294.6	290.1	288.8
15°	1477.7	1156.1	619.3	367.7	316.6	298.3	287.0	278.8	271.8	266.8	266.2
17.5°	1546.5	1163.1	541.8	331.1	297.0	278.8	267.4	257.4	251.6	246.0	245.4
20°	1622.8	1161.7	468.6	305.2	277.5	259.2	247.2	237.8	232.1	225.8	225.2
22.5°	1693.4	1155.5	404.3	283.2	257.4	239.6	226.4	217.0	211.3	206.2	205.6
25°	1774.8	1150.4	350.7	263.0	238.4	220.8	206.2	197.4	191.1	186.7	186.0
27.5°	1853.0	1142.9	311.6	244.7	220.1	203.1	189.2	179.2	173.4	170.3	170.3
30°	1930.0	1140.9	297.0	227.0	203.7	186.7	172.8	163.4	159.0	157.6	157.0
32.5°	2022.6	1145.9	303.4	220.8	188.6	171.6	158.3	151.4	147.0	147.0	147.0
35°	2121.6	1144.7	312.8	226.4	178.5	156.4	146.4	141.9	137.5	137.5	137.5
37.5°	2246.0	1146.7	320.4	235.9	174.7	143.8	138.2	132.4	130.0	130.0	130.0
40°	2431.4	1209.1	316.6	244.1	173.4	135.0	123.6	121.8	119.8	119.8	119.8
42.5°	2658.4	1344.7	321.6	244.7	172.8	128.6	113.6	117.3	112.9	112.2	111.6
45°	2906.9	1492.9	353.8	231.4	172.2	125.5	108.4	112.9	106.0	106.0	106.0
47.5°	3153.5	1639.8	386.6	212.6	170.3	124.8	104.0	101.6	99.6	100.2	100.2
50°	3493.5	1759.6	399.2	186.7	165.8	123.6	95.8	96.5	95.2	96.5	96.5
52.5°	3863.7	1784.9	384.1	157.6	153.2	119.8	90.2	92.8	92.0	93.4	93.4
55°	4094.6	1757.8	317.2	131.2	133.7	104.7	84.6	89.6	89.6	89.6	89.6
57.5°	4333.0	1642.4	225.2	106.6	111.0	85.8	79.4	86.4	85.8	85.2	85.2
60°	4504.5	1455.7	148.2	87.6	88.3	70.6	73.8	81.4	80.8	77.6	77.6
62.5°	4632.5	1249.5	95.2	74.4	67.4	63.7	67.4	73.8	71.2	64.4	63.0
65°	4618.0	963.7	73.2	63.7	55.5	55.5	58.6	64.4	56.8	45.4	44.2
67.5°	4348.7	652.1	60.6	53.6	46.6	46.0	48.6	53.6	48.6	38.4	37.2
70°	3867.5	426.4	48.6	41.6	37.2	34.0	39.1	46.0	41.0	31.0	29.6
72.5°	3139.1	259.8	36.6	30.2	27.2	22.0	31.0	37.8	32.8	22.8	21.4
75°	2030.8	132.4	25.2	19.6	14.6	13.2	22.8	28.4	22.8	13.8	12.0
77.5°	777.1	55.5	13.8	8.8	7.6	6.4	12.6	17.0	9.4	3.2	2.6
80°	149.4	23.4	7.0	4.4	3.8	2.6	1.8	1.2	0.0	0.0	0.0
82.5°	25.8	7.6	2.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.0	0.0	0.0	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)