

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: McGRAW-EDISON

Report Number: P939348

Luminaire Tested: **GALN-SB1D-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4691 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

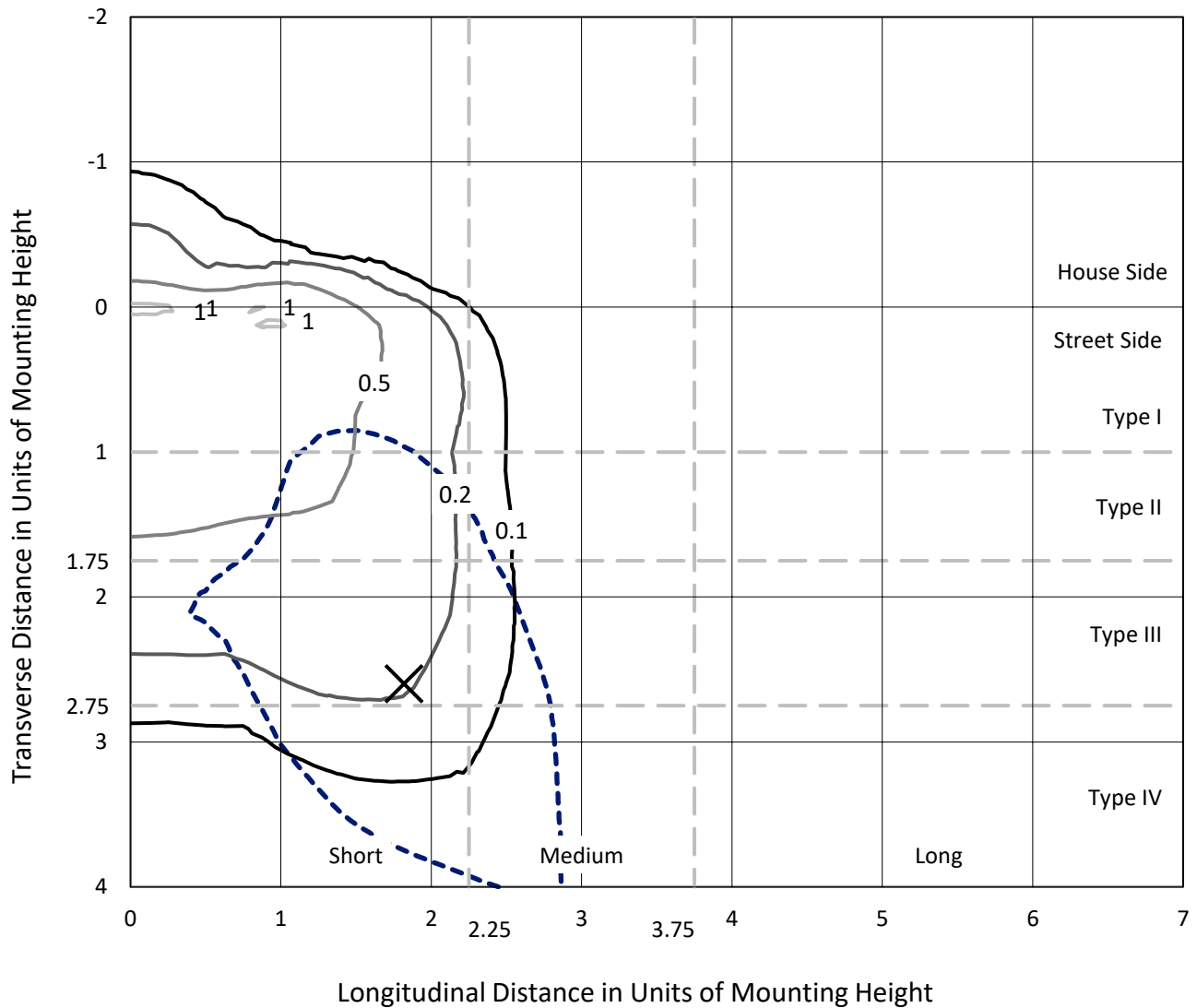
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

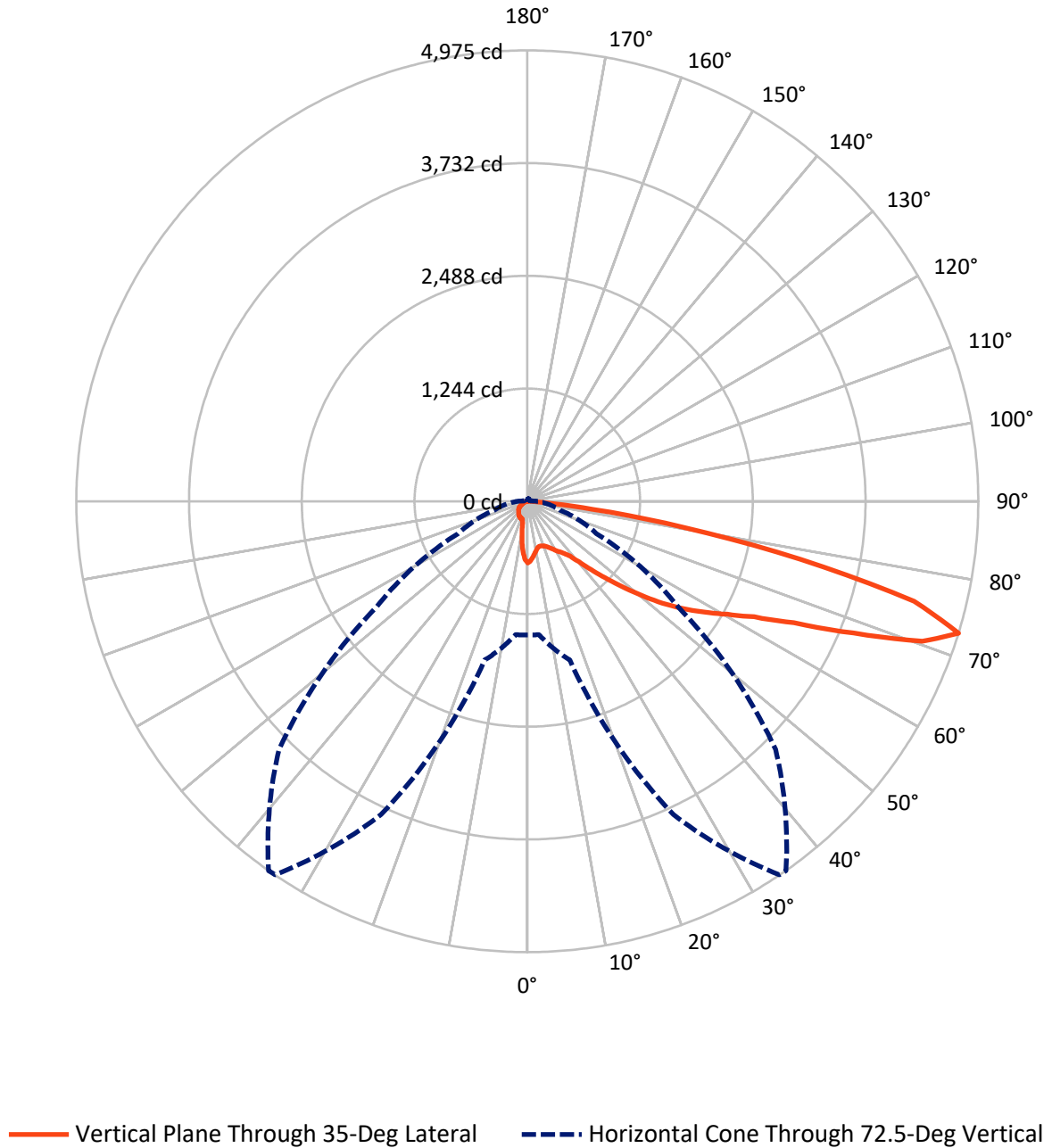
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GALN-SB1D-927-U-T4FT-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	527.9	0.0	527.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4163.1	0.0	4163.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	4691.0	0.0	4691.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	1.2
10°-20°	130.7	2.8
20°-30°	212.3	4.5
30°-40°	354.2	7.6
40°-50°	670.2	14.3
50°-60°	1065.0	22.7
60°-70°	1317.5	28.1
70°-80°	819.0	17.5
80°-90°	66.2	1.4
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°	4691.0	100.0
0°-180°	4691.0	100.0



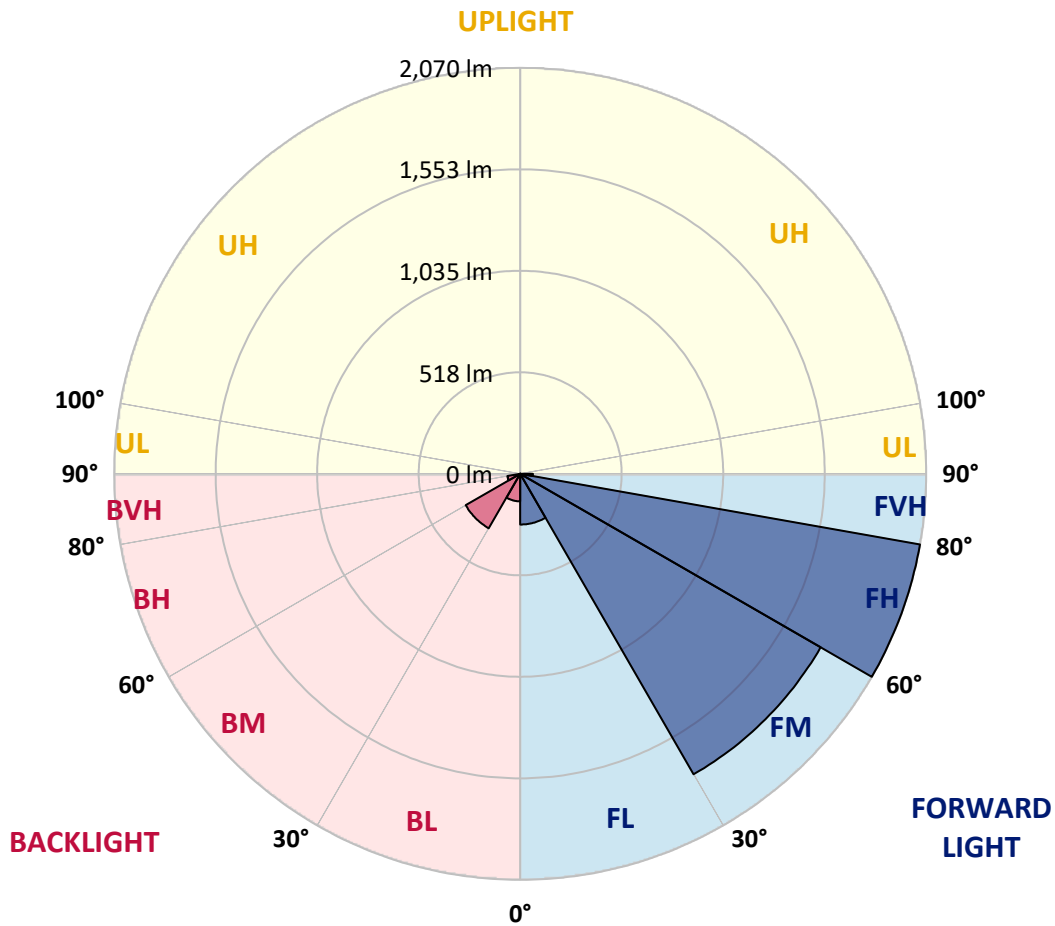
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	258.6	5.5			
FM (30°-60°)	1769.0	37.7			
FH (60°-80°)	2070.2	44.1			G2/5000
FVH (80°-90°)	65.3	1.4			G1/100
BL (0°-30°)	140.3	3.0	B1/500		
BM (30°-60°)	320.5	6.8	B1/1000		
BH (60°-80°)	66.2	1.4	B0/110		G0/110
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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9
2.5°	649.6	655.1	656.2	657.9	657.9	659.9	663.4	668.2	676.1	680.2
5°	598.8	602.9	608.0	612.2	620.1	621.1	634.5	647.6	665.8	679.5
7.5°	547.6	552.4	559.2	569.2	579.5	582.6	602.9	624.9	653.8	679.5
10°	511.5	511.8	518.0	528.0	544.5	548.2	573.0	604.3	640.4	675.4
12.5°	491.2	493.6	496.3	503.9	519.7	522.1	548.6	585.4	626.9	673.0
15°	491.2	492.9	494.6	498.4	511.1	513.2	536.6	573.3	620.1	674.0
17.5°	496.3	499.1	497.7	502.2	515.6	517.0	537.6	569.9	619.7	680.6
20°	508.7	510.8	508.0	510.8	524.2	526.9	548.2	576.4	625.6	691.9
22.5°	528.3	529.3	522.8	524.9	538.6	542.1	566.8	595.0	639.7	710.1
25°	553.0	555.1	545.1	547.6	560.6	564.7	593.3	622.8	662.0	735.2
27.5°	581.6	582.6	574.0	573.7	590.5	596.4	625.2	657.2	691.9	766.8
30°	614.2	617.3	609.1	607.7	629.0	633.8	662.4	699.5	735.9	814.3
32.5°	640.0	642.4	637.6	641.0	662.7	666.5	707.4	759.3	805.0	881.6
35°	677.1	678.5	667.5	673.7	698.4	708.1	768.9	843.2	892.0	966.2
37.5°	811.5	811.5	764.8	734.2	757.9	766.5	853.1	948.7	999.2	1079.6
40°	997.5	994.4	926.0	863.4	860.3	877.2	973.1	1081.7	1137.7	1215.7
42.5°	1195.8	1191.0	1097.8	1036.0	1025.7	1031.5	1111.6	1245.7	1302.7	1381.8
45°	1371.8	1370.4	1285.2	1202.0	1183.4	1202.0	1284.5	1437.4	1478.4	1561.5
47.5°	1519.3	1519.3	1457.0	1402.7	1393.1	1404.1	1518.6	1650.2	1646.4	1753.0
50°	1689.1	1687.7	1628.6	1605.2	1615.2	1630.6	1788.0	1874.3	1820.4	1941.0
52.5°	1808.0	1816.2	1796.0	1792.2	1843.0	1869.9	2061.6	2093.6	1976.1	2119.4
55°	1902.2	1911.8	1935.2	1961.6	2059.6	2094.6	2326.7	2301.6	2106.3	2274.1
57.5°	2035.5	2021.8	2057.9	2110.1	2268.6	2310.8	2583.4	2497.8	2211.2	2399.5
60°	2197.4	2199.5	2205.7	2271.7	2477.2	2531.5	2836.4	2683.4	2278.5	2476.5
62.5°	2392.0	2395.1	2407.8	2509.2	2757.3	2808.6	3105.9	2835.4	2309.5	2454.9
65°	2378.6	2391.6	2533.6	2880.4	3183.2	3233.7	3420.4	2941.9	2262.7	2256.9
67.5°	2166.8	2188.1	2425.6	3323.8	3825.3	3881.7	3800.5	2962.9	2061.0	1755.0
70°	1889.1	1896.7	2182.3	3722.5	4568.8	4625.8	4140.8	2732.3	1563.9	978.9
72.5°	1475.3	1477.0	1812.1	3815.0	4972.3	4975.4	3873.8	2028.3	841.1	376.0
75°	1053.9	1043.5	1213.7	3093.8	4374.6	4409.6	2904.1	951.4	321.4	177.7
77.5°	565.1	576.4	686.8	1834.8	3022.0	3081.8	1584.6	274.3	163.6	121.0
80°	174.6	184.2	281.5	840.1	1711.7	1747.8	587.4	122.0	114.1	86.3
82.5°	55.0	57.1	131.3	353.0	710.5	727.0	170.1	69.1	78.0	57.1
85°	15.8	16.2	58.4	131.6	175.6	179.1	47.8	26.8	44.7	35.4
87.5°	1.7	5.5	22.0	22.0	15.5	15.1	5.2	5.8	12.7	4.5
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
679.9	0°	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9
683.0	2.5°	681.3	681.6	677.1	669.6	661.3	654.4	645.9	639.0	634.2	632.8
689.2	5°	686.1	683.7	670.9	647.9	620.4	596.7	570.2	549.3	535.5	529.7
695.7	7.5°	693.3	686.4	658.6	613.2	560.6	513.9	466.4	429.7	406.3	394.6
701.9	10°	699.5	685.7	637.9	563.0	482.6	411.8	347.8	303.5	278.8	267.1
709.1	12.5°	705.3	685.4	611.1	503.6	394.6	308.0	248.5	226.5	219.6	217.2
720.8	15°	716.3	686.4	577.5	435.5	306.9	232.7	211.0	210.7	212.1	211.4
738.7	17.5°	731.4	687.4	539.3	363.3	236.8	205.2	204.2	207.3	209.3	208.3
761.0	20°	751.0	691.6	498.7	291.8	203.5	198.3	200.7	203.5	205.2	203.5
790.9	22.5°	778.5	698.8	454.4	234.4	192.8	194.2	196.3	199.4	201.1	198.7
829.1	25°	812.2	710.1	410.7	203.8	187.7	189.4	192.5	195.9	198.0	195.6
877.2	27.5°	855.9	728.3	370.5	197.0	182.5	183.5	188.0	193.2	195.9	192.8
945.6	30°	919.1	758.3	335.8	200.0	179.4	177.0	183.2	190.4	193.5	190.8
1038.7	32.5°	1003.0	800.5	314.5	204.9	178.0	169.5	175.3	184.6	189.7	188.0
1160.4	35°	1113.0	864.8	306.3	210.4	177.0	161.5	165.7	175.6	184.6	186.3
1313.7	37.5°	1246.3	954.2	308.7	212.8	173.9	155.0	157.1	165.7	177.4	182.9
1486.3	40°	1397.9	1058.3	322.4	210.4	170.5	149.5	149.9	156.4	166.7	175.0
1671.9	42.5°	1554.3	1180.0	347.8	201.4	167.4	144.7	143.7	148.1	155.0	160.9
1857.1	45°	1703.1	1305.1	372.9	189.0	163.6	139.9	137.5	139.2	140.6	143.0
2037.6	47.5°	1833.1	1393.1	365.7	177.7	158.5	134.4	130.3	129.6	125.5	125.1
2198.8	50°	1922.8	1412.4	324.8	166.4	150.9	128.2	121.7	117.6	110.3	106.9
2319.4	52.5°	1951.3	1336.4	265.4	155.0	138.5	120.0	110.7	104.1	95.2	92.1
2388.9	55°	1913.5	1187.6	212.1	141.3	121.3	109.0	98.6	90.1	82.8	79.1
2396.4	57.5°	1821.0	998.2	167.7	125.1	103.1	96.6	86.3	77.7	71.5	67.7
2312.6	60°	1667.7	792.6	132.7	105.9	88.0	83.2	72.5	67.0	61.5	57.1
2096.0	62.5°	1435.0	565.8	104.1	83.9	73.6	68.1	61.9	57.7	51.2	45.0
1706.6	65°	1119.8	346.1	80.4	61.5	59.1	56.4	52.6	48.8	40.9	34.7
1113.3	67.5°	706.3	164.0	57.4	46.4	46.7	45.4	43.7	40.6	34.7	29.2
498.7	70°	311.1	79.4	37.8	35.4	34.7	34.7	36.1	35.1	29.6	24.4
173.2	72.5°	105.9	42.6	28.2	26.8	25.1	24.7	30.2	29.2	23.7	18.9
86.3	75°	55.3	28.5	20.6	19.2	15.1	18.2	24.1	22.7	16.8	12.4
57.1	77.5°	36.1	20.3	14.1	12.4	8.6	12.0	17.9	15.8	10.0	6.2
37.5	80°	22.7	13.4	8.2	5.8	4.1	6.5	9.6	6.9	3.8	1.4
22.0	82.5°	12.0	6.9	3.1	2.1	1.7	2.1	2.4	1.7	0.7	0.0
11.3	85°	4.8	2.4	1.0	0.7	0.3	0.0	0.7	0.3	0.0	0.0
2.1	87.5°	1.7	0.3	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

(END O

<u>180°</u>
679.9
635.2
531.7
396.3
267.4
216.5
211.0
208.0
203.1
198.3
195.2
192.8
190.4
188.0
186.3
184.2
177.7
163.3
144.4
124.8
107.2
91.8
79.1
67.0
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