

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: P954979

Luminaire Tested: **GALN-SB8A-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31351 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

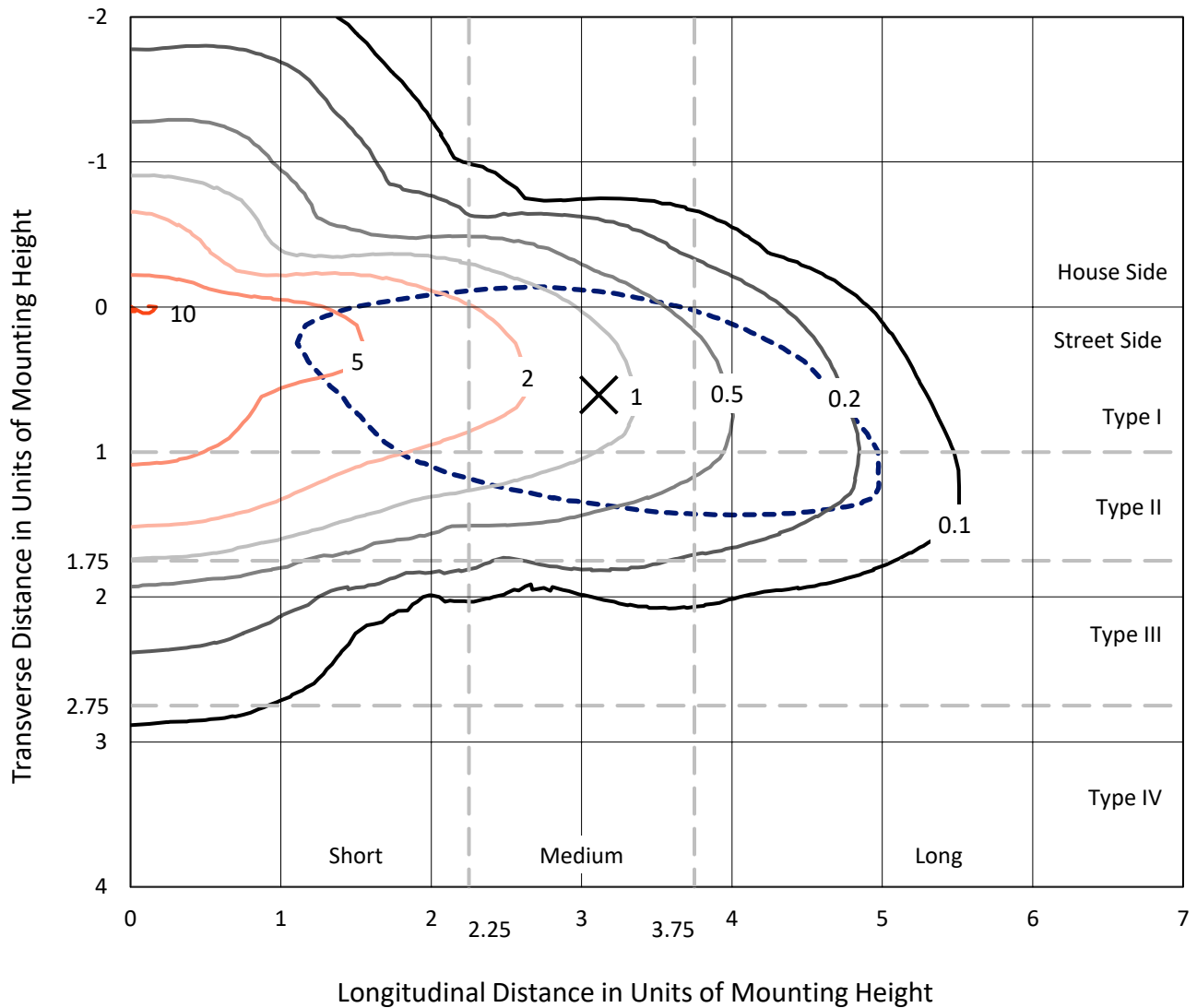
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

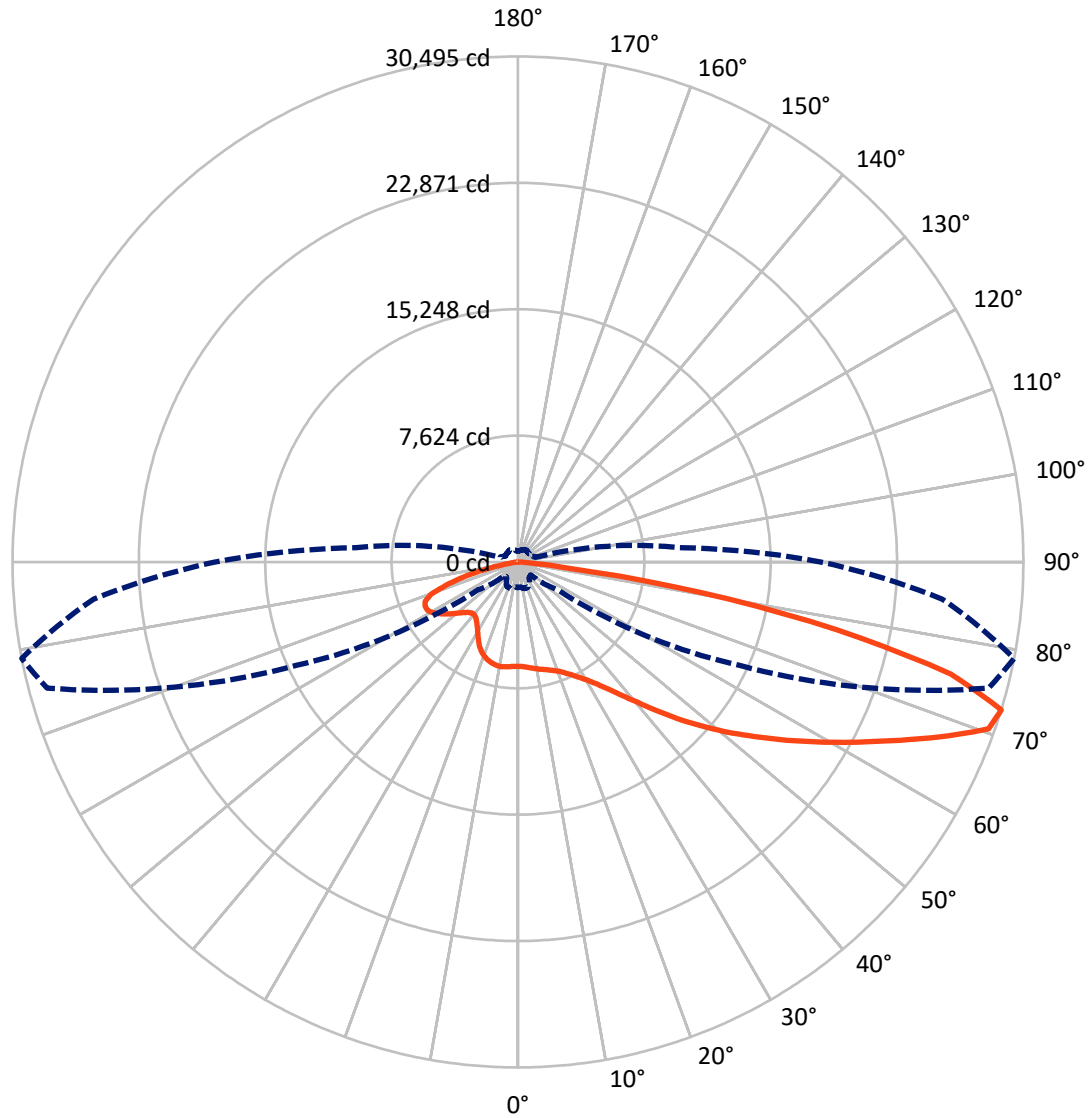
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6898.9	0.0	6898.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	24452.0	0.0	24452.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	31351.0	0.0	31351.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.3	1.8
10°-20°	1493.6	4.8
20°-30°	2410.0	7.7
30°-40°	3617.1	11.5
40°-50°	5131.0	16.4
50°-60°	6479.8	20.7
60°-70°	6581.1	21.0
70°-80°	4485.3	14.3
80°-90°	581.9	1.9
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°	31351.0	100.0
0°-180°	31351.0	100.0



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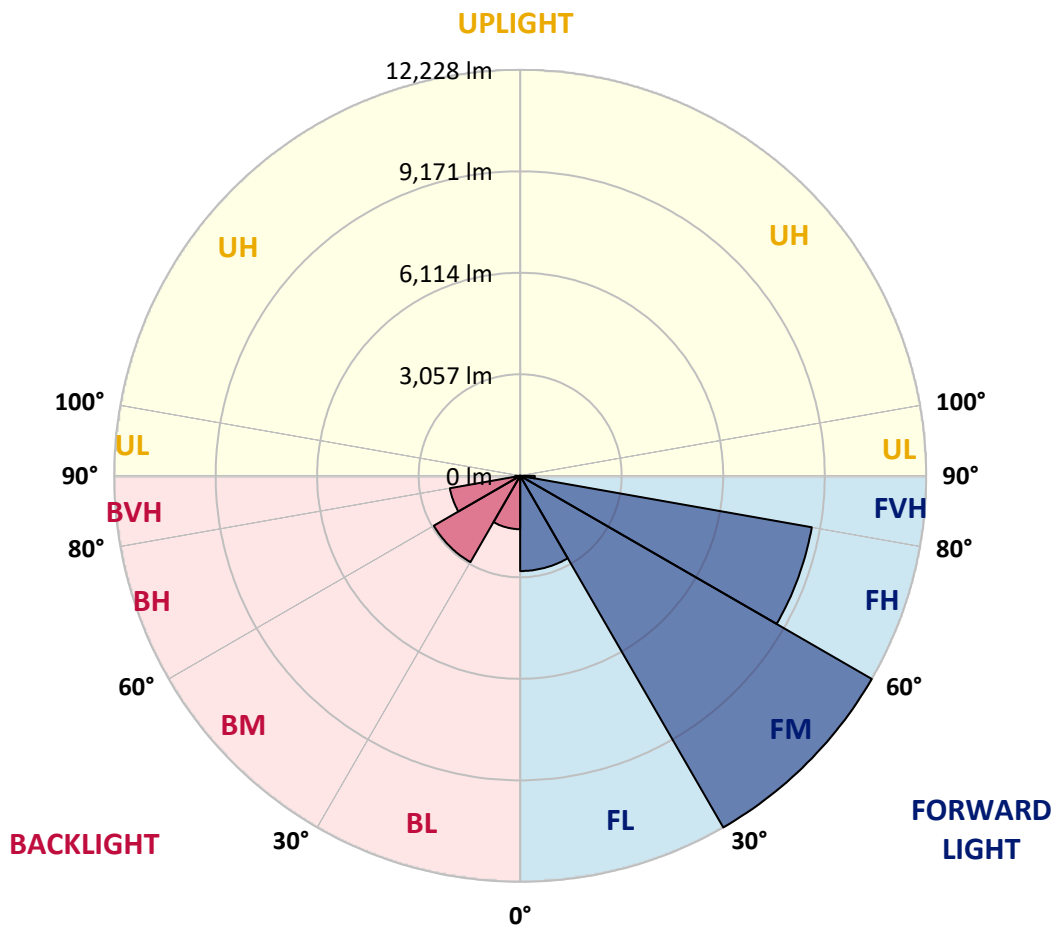
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2867.9	9.1			
FM (30°-60°)	12227.5	39.0			
FH (60°-80°)	8918.3	28.4			G4/12000
FVH (80°-90°)	438.4	1.4			G3/500
BL (0°-30°)	1607.0	5.1	B3/2500		
BM (30°-60°)	3000.3	9.6	B3/5000		
BH (60°-80°)	2148.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	143.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	6293.4	6293.4	6293.4	6293.4	6293.4	6293.4	6293.4	6293.4	6293.4	6293.4
2.5°	6296.7	6266.9	6285.1	6278.5	6286.8	6296.7	6300.0	6305.0	6321.6	6319.9
5°	6283.5	6253.6	6278.5	6270.2	6291.8	6315.0	6334.9	6353.1	6379.6	6391.3
7.5°	6255.3	6235.4	6260.2	6285.1	6324.9	6359.7	6387.9	6429.4	6467.5	6474.2
10°	6091.1	6076.2	6134.2	6198.9	6308.3	6402.9	6464.2	6512.3	6553.8	6560.4
12.5°	5920.3	5902.0	5966.7	6054.6	6232.1	6402.9	6532.2	6595.2	6631.7	6653.3
15°	5892.1	5877.2	5913.7	5989.9	6137.5	6358.1	6578.7	6694.7	6726.2	6751.1
17.5°	6028.1	5999.9	6014.8	6041.3	6127.6	6316.6	6615.1	6807.5	6855.6	6882.1
20°	6343.2	6303.4	6280.1	6227.1	6212.2	6323.3	6611.8	6943.5	7006.5	7039.7
22.5°	6762.7	6736.2	6686.4	6552.1	6406.2	6404.5	6674.8	7117.6	7235.4	7266.9
25°	7270.2	7230.4	7167.4	6984.9	6704.7	6565.4	6781.0	7339.8	7537.2	7545.5
27.5°	7853.9	7794.2	7708.0	7467.5	7089.4	6817.5	6943.5	7595.2	7883.8	7880.5
30°	8469.2	8409.5	8318.3	8026.4	7550.4	7157.4	7169.0	7870.5	8295.0	8276.8
32.5°	8918.6	8873.8	8855.6	8630.0	8081.1	7558.7	7427.7	8175.6	8802.5	8785.9
35°	9263.5	9205.5	9227.0	9112.6	8659.9	8008.1	7744.5	8538.8	9419.4	9417.7
37.5°	9605.1	9553.7	9572.0	9495.7	9195.5	8578.6	8130.9	8983.2	10183.9	10220.4
40°	9916.9	9862.2	9935.1	9863.8	9611.8	9185.6	8570.3	9485.7	11069.4	11139.1
42.5°	10104.3	10061.2	10182.2	10183.9	9973.3	9698.0	9052.9	10039.6	12094.3	12250.2
45°	10169.0	10154.0	10336.5	10374.6	10293.3	9994.8	9487.4	10643.3	13198.8	13477.4
47.5°	10099.3	10071.1	10323.2	10464.2	10528.8	10134.1	9847.2	11296.6	14326.4	14734.4
50°	9747.7	9693.0	10067.8	10364.6	10595.2	10225.3	10210.4	12051.2	15608.3	16054.4
52.5°	9115.9	9074.5	9500.7	10016.4	10449.2	10270.1	10618.4	12875.4	16825.6	17402.7
55°	8308.3	8253.6	8722.9	9396.2	10086.0	10255.2	11026.3	13797.4	18261.7	18847.1
57.5°	7028.1	6918.6	7512.3	8308.3	9494.0	10237.0	11450.9	14714.5	19721.0	20422.5
60°	5160.8	4998.2	5726.3	6669.9	8336.5	10059.5	11976.6	15742.7	21472.2	22104.1
62.5°	3004.9	2910.4	3386.3	4266.9	6283.5	9014.8	12271.7	16938.3	23193.6	23856.9
65°	2333.3	2306.8	2348.2	2416.2	3497.4	6749.5	11361.3	18104.1	25382.6	25846.9
67.5°	2134.3	2114.4	2132.6	2004.9	1774.4	3759.5	8988.2	18399.3	27727.5	28009.4
70°	1897.1	1873.9	1933.6	1824.2	1396.3	1709.8	5807.5	17328.0	29593.1	30122.2
72.5°	1545.6	1519.0	1658.3	1608.6	1175.8	1097.8	2917.0	14782.5	29397.5	30495.3
75°	1187.4	1172.4	1338.3	1379.7	958.5	864.0	1399.6	10988.2	25870.2	26976.3
77.5°	922.0	910.4	995.0	1145.9	772.8	670.0	860.7	6970.0	19495.5	19689.5
80°	691.5	658.4	736.3	887.2	602.0	489.2	583.7	4064.6	12323.2	11170.6
82.5°	432.8	416.2	480.9	592.0	424.5	336.6	379.8	2245.4	4938.5	2908.7
85°	247.1	240.5	262.0	338.3	230.5	194.0	217.2	991.7	902.1	620.2
87.5°	99.5	96.2	119.4	150.9	84.6	71.3	76.3	238.8	199.0	184.1
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°
6293.4	0°	6293.4	6293.4	6293.4	6293.4	6293.4	6293.4	6293.4	6293.4	6293.4	6293.4
6318.3	2.5°	6311.7	6311.7	6288.4	6252.0	6210.5	6184.0	6140.8	6129.2	6084.5	6071.2
6374.7	5°	6387.9	6374.7	6303.4	6200.5	6059.6	5930.2	5787.6	5698.1	5572.0	5527.3
6485.8	7.5°	6484.1	6447.6	6324.9	6099.4	5804.2	5514.0	5212.2	4983.3	4764.4	4686.5
6577.0	10°	6572.0	6520.6	6311.7	5917.0	5406.2	4903.7	4422.8	4086.2	3830.8	3726.3
6678.2	12.5°	6659.9	6565.4	6223.8	5613.5	4840.7	4159.1	3646.7	3384.7	3227.1	3101.1
6761.1	15°	6742.8	6610.2	6087.8	5207.2	4220.5	3529.0	3150.9	2941.9	2815.9	2733.0
6882.1	17.5°	6839.0	6648.3	5883.8	4691.5	3630.1	3092.8	2784.4	2658.3	2633.5	2623.5
7048.0	20°	6973.3	6683.1	5615.2	4114.4	3195.6	2744.6	2585.4	2573.7	2572.1	2567.1
7247.0	22.5°	7117.6	6724.6	5260.3	3590.3	2825.8	2527.3	2499.1	2475.9	2461.0	2459.3
7487.4	25°	7288.4	6737.9	4815.8	3160.8	2510.7	2424.5	2391.3	2356.5	2346.6	2346.6
7761.0	27.5°	7454.3	6693.1	4298.4	2787.7	2333.3	2330.0	2286.9	2275.2	2273.6	2278.6
8072.8	30°	7620.1	6608.5	3784.3	2442.7	2230.5	2230.5	2215.5	2223.8	2230.5	2247.1
8500.7	32.5°	7844.0	6518.9	3354.8	2187.4	2140.9	2124.3	2139.3	2155.8	2162.5	2184.0
9062.8	35°	8172.3	6455.9	3013.2	2048.1	2048.1	2026.5	2034.8	2031.5	2016.5	2006.6
9742.8	37.5°	8606.8	6452.6	2731.3	1983.4	1970.1	1966.8	1968.5	1946.9	1888.9	1819.2
10565.3	40°	9129.2	6542.2	2514.0	1938.6	1928.7	1948.6	1938.6	1880.6	1721.4	1600.3
11576.9	42.5°	9830.7	6797.6	2374.7	1883.9	1913.7	1938.6	1898.8	1698.1	1590.4	1509.1
12729.4	45°	10656.5	7212.1	2303.4	1825.8	1885.5	1915.4	1723.0	1635.1	1548.9	1451.1
13986.5	47.5°	11591.8	7734.5	2286.9	1771.1	1822.5	1840.8	1648.4	1608.6	1510.8	1404.6
15250.1	50°	12610.0	8353.1	2331.6	1706.4	1731.3	1668.3	1623.5	1587.0	1485.9	1381.4
16545.3	52.5°	13663.1	9034.7	2421.2	1618.5	1640.1	1570.5	1613.6	1582.1	1471.0	1330.0
17883.6	55°	14697.9	9721.2	2507.4	1515.7	1547.2	1482.6	1585.4	1562.2	1403.0	1243.8
19311.4	57.5°	15749.3	10404.4	2592.0	1424.5	1457.7	1398.0	1540.6	1509.1	1326.7	1164.2
20870.3	60°	16842.1	11067.8	2631.8	1336.6	1359.8	1320.0	1472.6	1417.9	1240.4	1082.9
22402.6	62.5°	17865.3	11620.0	2567.1	1248.7	1263.7	1247.1	1383.1	1310.1	1154.2	991.7
23999.6	65°	18891.9	11948.4	2368.1	1162.5	1165.8	1157.5	1257.0	1194.0	1053.0	912.1
25397.5	67.5°	19822.2	12132.4	2051.4	1069.6	1061.3	1058.0	1139.3	1068.0	955.2	832.5
26460.5	70°	20019.5	11664.8	1567.1	960.2	960.2	951.9	1009.9	937.0	847.4	747.9
25699.4	72.5°	18284.9	9812.4	1112.7	835.8	849.1	832.5	880.6	819.2	738.0	671.6
22148.8	75°	14744.3	7195.6	809.3	708.1	731.3	703.1	747.9	704.8	635.1	633.5
15263.4	77.5°	10130.8	4449.3	587.1	583.7	600.3	563.8	615.2	592.0	529.0	500.8
6643.3	80°	4323.3	1774.4	427.9	451.1	451.1	417.9	477.6	484.2	429.5	416.2
1281.9	82.5°	860.7	504.1	300.2	310.1	291.9	281.9	338.3	374.8	517.4	575.4
386.4	85°	258.7	185.7	180.8	169.2	149.3	150.9	199.0	376.4	464.3	265.3
127.7	87.5°	71.3	46.4	48.1	38.1	31.5	41.5	68.0	285.2	155.9	66.3
0.0	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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<u>180°</u>
6293.4
6092.8
5560.4
4696.4
3749.5
3142.6
2747.9
2630.1
2583.7
2477.6
2356.5
2291.8
2258.7
2202.3
2029.8
1820.9
1597.0
1505.8
1444.4
1396.3
1369.8
1320.0
1235.5
1160.8
1077.9
990.0
902.1
822.5
744.6
651.7
570.5
469.3
416.2
577.1
228.9
56.4
0.0

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