

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: P955441

Luminaire Tested: **GALN-SB8B-927-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955441
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-SB8B-927-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27548 lumens
Efficiency: N/A
Efficacy: 94.1 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

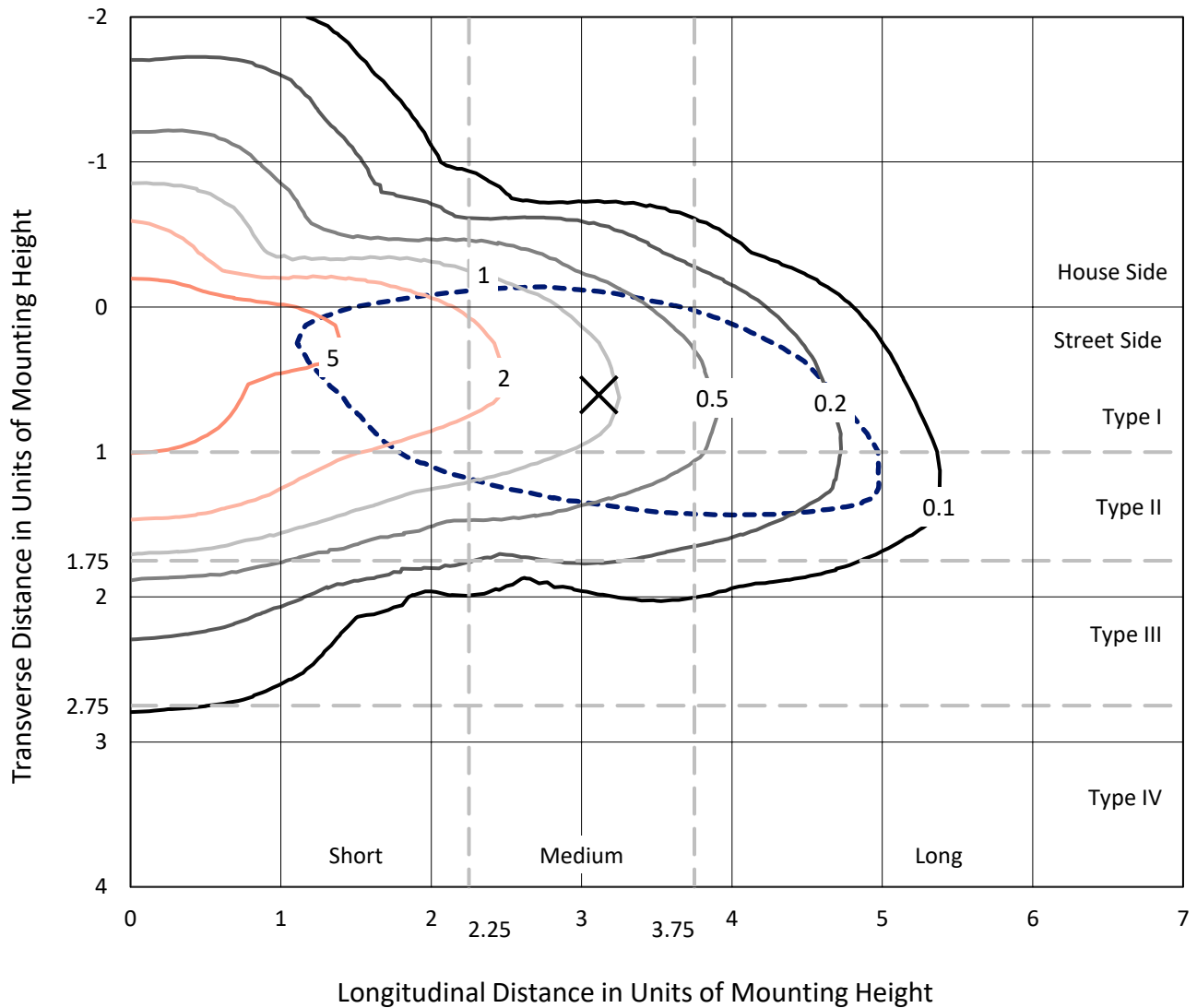
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

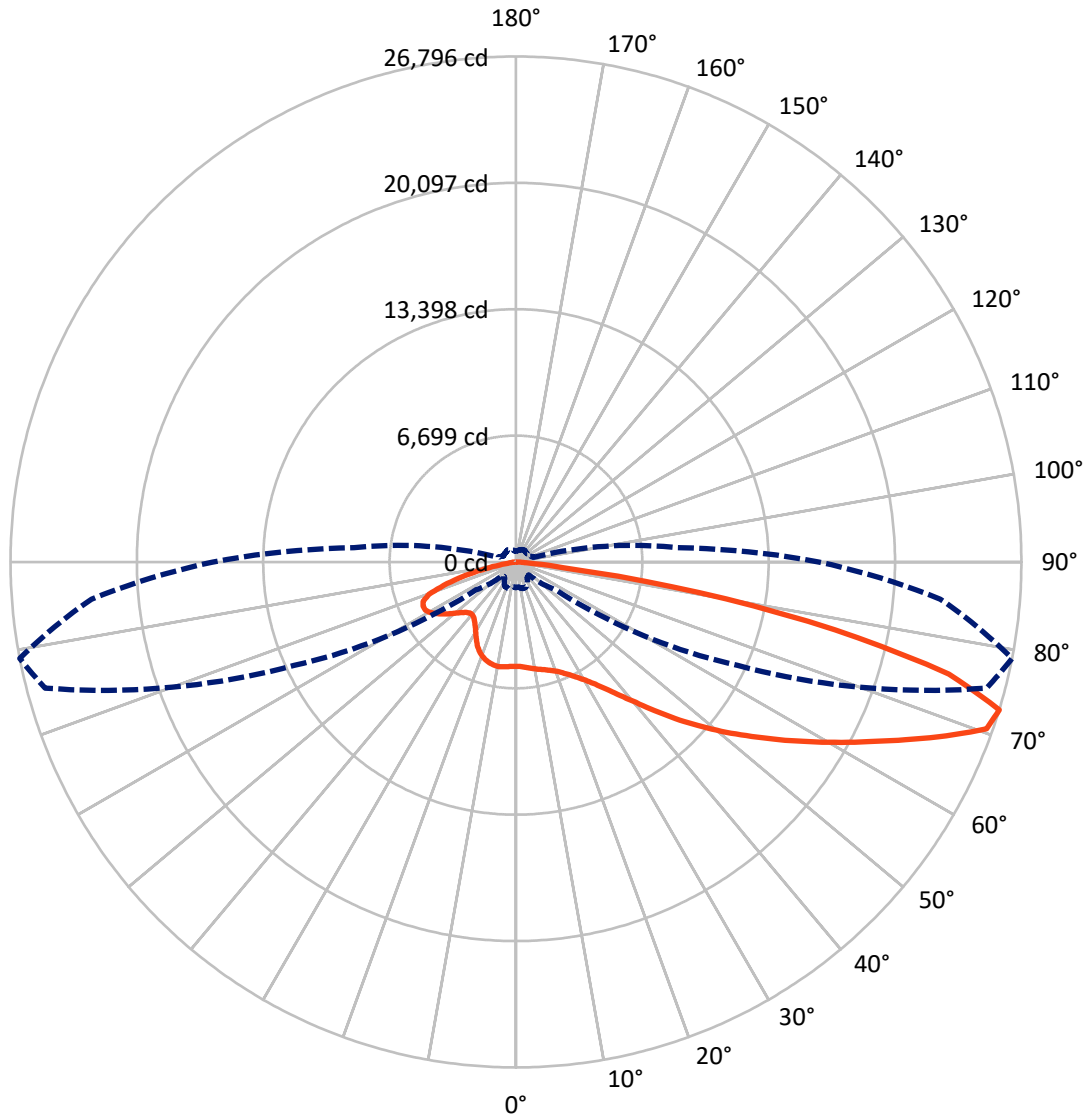
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	6062.1	0.0	6062.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	21485.9	0.0	21485.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	27548.0	0.0	27548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.0	1.8
10°-20°	1312.4	4.8
20°-30°	2117.7	7.7
30°-40°	3178.3	11.5
40°-50°	4508.6	16.4
50°-60°	5693.8	20.7
60°-70°	5782.8	21.0
70°-80°	3941.2	14.3
80°-90°	511.3	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°	27548.0	100.0
0°-180°	27548.0	100.0

Coefficient of Utilization



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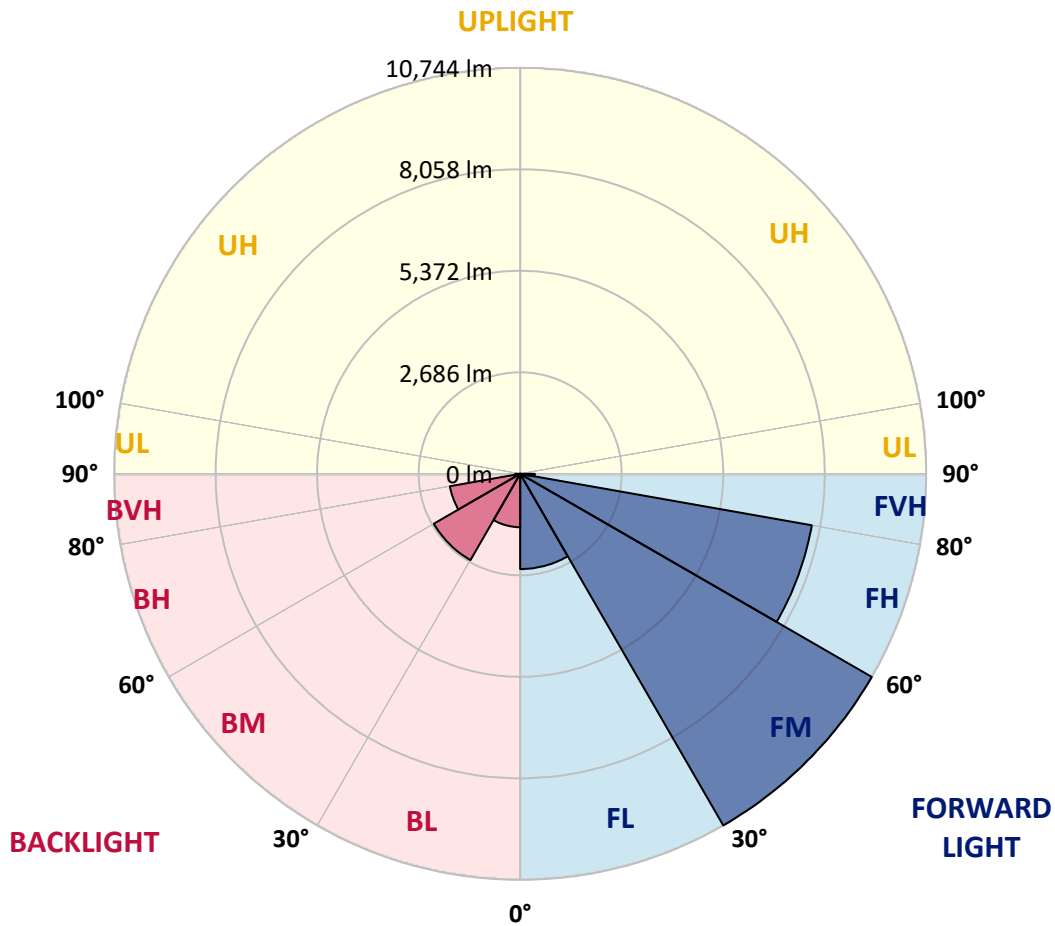
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2520.0	9.1			
FM (30°-60°)	10744.3	39.0			
FH (60°-80°)	7836.5	28.4			G4/12000
FVH (80°-90°)	385.2	1.4			G3/500
BL (0°-30°)	1412.0	5.1	B3/2500		
BM (30°-60°)	2636.4	9.6	B3/5000		
BH (60°-80°)	1887.5	6.9	B3/2500		G3/2500
BVH (80°-90°)	126.1	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°	5530.0	5530.0	5530.0	5530.0	5530.0	5530.0	5530.0	5530.0	5530.0	5530.0
2.5°	5532.9	5506.7	5522.7	5516.9	5524.2	5532.9	5535.8	5540.2	5554.8	5553.3
5°	5521.3	5495.0	5516.9	5509.6	5528.5	5548.9	5566.4	5582.5	5605.8	5616.0
7.5°	5496.5	5479.0	5500.9	5522.7	5557.7	5588.3	5613.1	5649.5	5683.0	5688.8
10°	5352.2	5339.1	5390.1	5446.9	5543.1	5626.2	5680.1	5722.3	5758.8	5764.6
12.5°	5202.1	5186.1	5242.9	5320.2	5476.1	5626.2	5739.8	5795.2	5827.3	5846.2
15°	5177.4	5164.2	5196.3	5263.3	5393.0	5586.8	5780.6	5882.6	5910.3	5932.2
17.5°	5296.9	5272.1	5285.2	5308.5	5384.3	5550.4	5812.7	5981.7	6024.0	6047.3
20°	5573.7	5538.7	5518.3	5471.7	5458.6	5556.2	5809.8	6101.2	6156.6	6185.7
22.5°	5942.4	5919.1	5875.4	5757.3	5629.1	5627.6	5865.2	6254.2	6357.7	6385.4
25°	6388.3	6353.3	6297.9	6137.6	5891.4	5769.0	5958.4	6449.5	6622.9	6630.2
27.5°	6901.2	6848.7	6773.0	6561.7	6229.4	5990.5	6101.2	6673.9	6927.4	6924.5
30°	7441.8	7389.4	7309.2	7052.8	6634.5	6289.2	6299.4	6915.8	7288.8	7272.8
32.5°	7836.7	7797.4	7781.3	7583.2	7100.8	6641.8	6526.7	7183.9	7734.7	7720.1
35°	8139.8	8088.8	8107.8	8007.2	7609.4	7036.7	6805.0	7503.0	8276.8	8275.3
37.5°	8440.0	8394.8	8410.8	8343.8	8080.1	7538.0	7144.6	7893.5	8948.5	8980.6
40°	8713.9	8665.9	8730.0	8667.3	8445.8	8071.3	7530.7	8335.1	9726.7	9787.9
42.5°	8878.6	8840.7	8947.1	8948.5	8763.5	8521.6	7954.7	8821.8	10627.2	10764.2
45°	8935.4	8922.3	9082.6	9116.1	9044.7	8782.4	8336.5	9352.2	11597.7	11842.5
47.5°	8874.2	8849.5	9070.9	9194.8	9251.6	8904.8	8652.7	9926.3	12588.6	12947.0
50°	8565.3	8517.2	8846.5	9107.4	9309.9	8985.0	8971.9	10589.3	13715.0	14107.0
52.5°	8010.1	7973.7	8348.2	8801.4	9181.7	9024.3	9330.3	11313.5	14784.6	15291.6
55°	7300.5	7252.4	7664.8	8256.4	8862.6	9011.2	9688.8	12123.7	16046.5	16560.9
57.5°	6175.5	6079.4	6601.0	7300.5	8342.4	8995.2	10061.8	12929.6	17328.8	17945.2
60°	4534.7	4391.9	5031.6	5860.8	7325.2	8839.3	10523.8	13833.0	18867.6	19422.8
62.5°	2640.4	2557.4	2975.6	3749.3	5521.3	7921.2	10783.1	14883.6	20380.1	20963.0
65°	2050.3	2026.9	2063.4	2123.1	3073.2	5930.7	9983.1	15908.0	22303.6	22711.6
67.5°	1875.4	1857.9	1873.9	1761.7	1559.2	3303.4	7897.9	16167.4	24364.1	24611.8
70°	1667.0	1646.6	1699.1	1602.9	1226.9	1502.4	5103.0	15226.1	26003.4	26468.2
72.5°	1358.1	1334.8	1457.2	1413.5	1033.1	964.7	2563.2	12989.3	25831.4	26796.1
75°	1043.3	1030.2	1175.9	1212.4	842.3	759.2	1229.9	9655.3	22732.0	23704.0
77.5°	810.2	800.0	874.3	1006.9	679.0	588.7	756.3	6124.5	17130.6	17301.1
80°	607.6	578.5	647.0	779.6	529.0	429.9	512.9	3571.5	10828.3	9815.6
82.5°	380.3	365.8	422.6	520.2	373.0	295.8	333.7	1973.0	4339.5	2555.9
85°	217.1	211.3	230.2	297.3	202.5	170.5	190.9	871.4	792.7	545.0
87.5°	87.4	84.5	104.9	132.6	74.3	62.7	67.0	209.8	174.9	161.7
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°
5530.0	0°	5530.0	5530.0	5530.0	5530.0	5530.0	5530.0	5530.0	5530.0	5530.0	5530.0
5551.9	2.5°	5546.0	5546.0	5525.6	5493.6	5457.1	5433.8	5395.9	5385.7	5346.4	5334.7
5601.4	5°	5613.1	5601.4	5538.7	5448.4	5324.5	5210.9	5085.6	5006.9	4896.1	4856.8
5699.0	7.5°	5697.6	5665.5	5557.7	5359.5	5100.1	4845.1	4579.9	4378.8	4186.5	4118.0
5779.2	10°	5774.8	5729.6	5546.0	5199.2	4750.4	4308.9	3886.3	3590.5	3366.1	3274.3
5868.1	12.5°	5852.0	5769.0	5468.8	4932.6	4253.5	3654.6	3204.3	2974.1	2835.7	2724.9
5940.9	15°	5924.9	5808.3	5349.3	4575.5	3708.5	3100.9	2768.6	2585.0	2474.3	2401.4
6047.3	17.5°	6009.4	5841.8	5170.1	4122.4	3189.8	2717.6	2446.6	2335.9	2314.0	2305.3
6193.0	20°	6127.4	5872.4	4934.0	3615.3	2808.0	2411.6	2271.7	2261.5	2260.1	2255.7
6367.9	22.5°	6254.2	5908.9	4622.2	3154.8	2483.0	2220.7	2196.0	2175.6	2162.5	2161.0
6579.2	25°	6404.3	5920.5	4231.7	2777.4	2206.2	2130.4	2101.3	2070.7	2061.9	2061.9
6819.6	27.5°	6550.0	5881.2	3777.0	2449.5	2050.3	2047.3	2009.5	1999.3	1997.8	2002.2
7093.6	30°	6695.7	5806.9	3325.3	2146.4	1959.9	1959.9	1946.8	1954.1	1959.9	1974.5
7469.5	32.5°	6892.5	5728.2	2947.9	1922.0	1881.2	1866.6	1879.8	1894.3	1900.2	1919.1
7963.5	35°	7181.0	5672.8	2647.7	1799.6	1799.6	1780.7	1788.0	1785.0	1771.9	1763.2
8560.9	37.5°	7562.8	5669.9	2400.0	1742.8	1731.1	1728.2	1729.7	1710.7	1659.7	1598.5
9283.7	40°	8021.8	5748.6	2209.1	1703.4	1694.7	1712.2	1703.4	1652.4	1512.6	1406.2
10172.6	42.5°	8638.2	5973.0	2086.7	1655.4	1681.6	1703.4	1668.5	1492.2	1397.4	1326.0
11185.3	45°	9363.8	6337.3	2024.0	1604.4	1656.8	1683.0	1514.0	1436.8	1361.0	1275.0
12289.9	47.5°	10185.7	6796.3	2009.5	1556.3	1601.4	1617.5	1448.4	1413.5	1327.5	1234.2
13400.2	50°	11080.4	7339.8	2048.8	1499.4	1521.3	1465.9	1426.6	1394.5	1305.6	1213.8
14538.3	52.5°	12005.7	7938.7	2127.5	1422.2	1441.2	1379.9	1417.8	1390.1	1292.5	1168.7
15714.2	55°	12915.0	8542.0	2203.3	1331.9	1359.5	1302.7	1393.1	1372.7	1232.8	1092.9
16968.9	57.5°	13838.8	9142.3	2277.6	1251.7	1280.9	1228.4	1353.7	1326.0	1165.7	1022.9
18338.6	60°	14799.1	9725.2	2312.5	1174.5	1194.9	1159.9	1294.0	1245.9	1090.0	951.5
19685.0	62.5°	15698.2	10210.5	2255.7	1097.3	1110.4	1095.8	1215.3	1151.2	1014.2	871.4
21088.3	65°	16600.2	10499.0	2080.9	1021.5	1024.4	1017.1	1104.5	1049.2	925.3	801.4
22316.7	67.5°	17417.7	10660.7	1802.5	939.9	932.6	929.7	1001.1	938.4	839.3	731.5
23250.8	70°	17591.1	10249.8	1377.0	843.7	843.7	836.4	887.4	823.3	744.6	657.2
22581.9	72.5°	16066.9	8622.1	977.8	734.4	746.1	731.5	773.8	719.8	648.4	590.2
19462.1	75°	12955.8	6322.7	711.1	622.2	642.6	617.8	657.2	619.3	558.1	556.6
13411.9	77.5°	8901.9	3909.6	515.8	512.9	527.5	495.4	540.6	520.2	464.8	440.1
5837.5	80°	3798.9	1559.2	376.0	396.4	396.4	367.2	419.7	425.5	377.4	365.8
1126.4	82.5°	756.3	443.0	263.7	272.5	256.5	247.7	297.3	329.3	454.6	505.6
339.5	85°	227.3	163.2	158.8	148.6	131.1	132.6	174.9	330.8	408.0	233.1
112.2	87.5°	62.7	40.8	42.3	33.5	27.7	36.4	59.7	250.6	137.0	58.3
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>
5530.0
5353.7
4885.9
4126.7
3294.7
2761.4
2414.5
2311.1
2270.3
2177.0
2070.7
2013.8
1984.7
1935.1
1783.6
1600.0
1403.3
1323.1
1269.2
1226.9
1203.6
1159.9
1085.6
1020.0
947.2
869.9
792.7
722.8
654.3
572.7
501.3
412.4
365.8
507.1
201.1
49.5
0.0

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