

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: P951154

Luminaire Tested: **GALN-SB5B-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17609 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

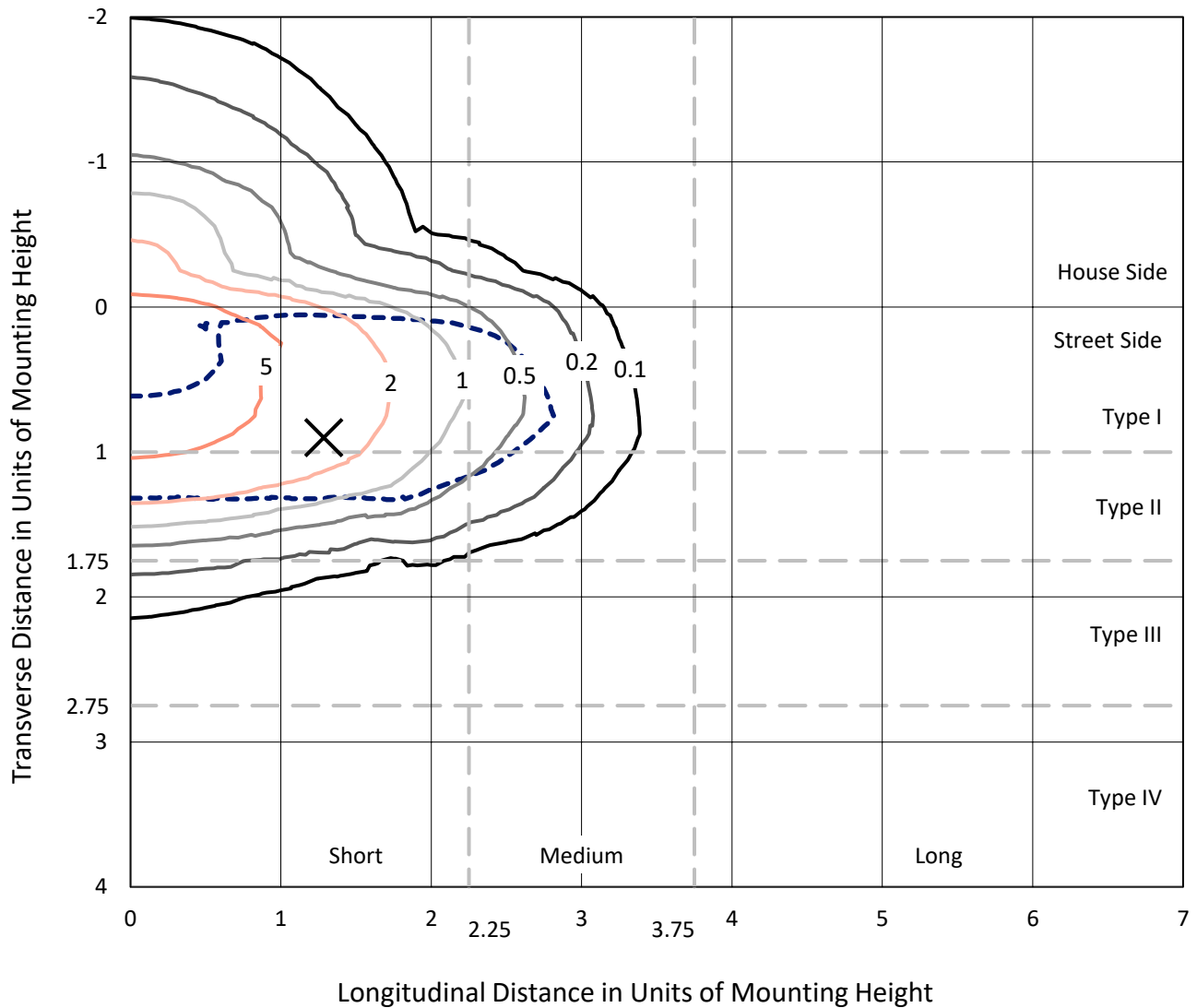
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

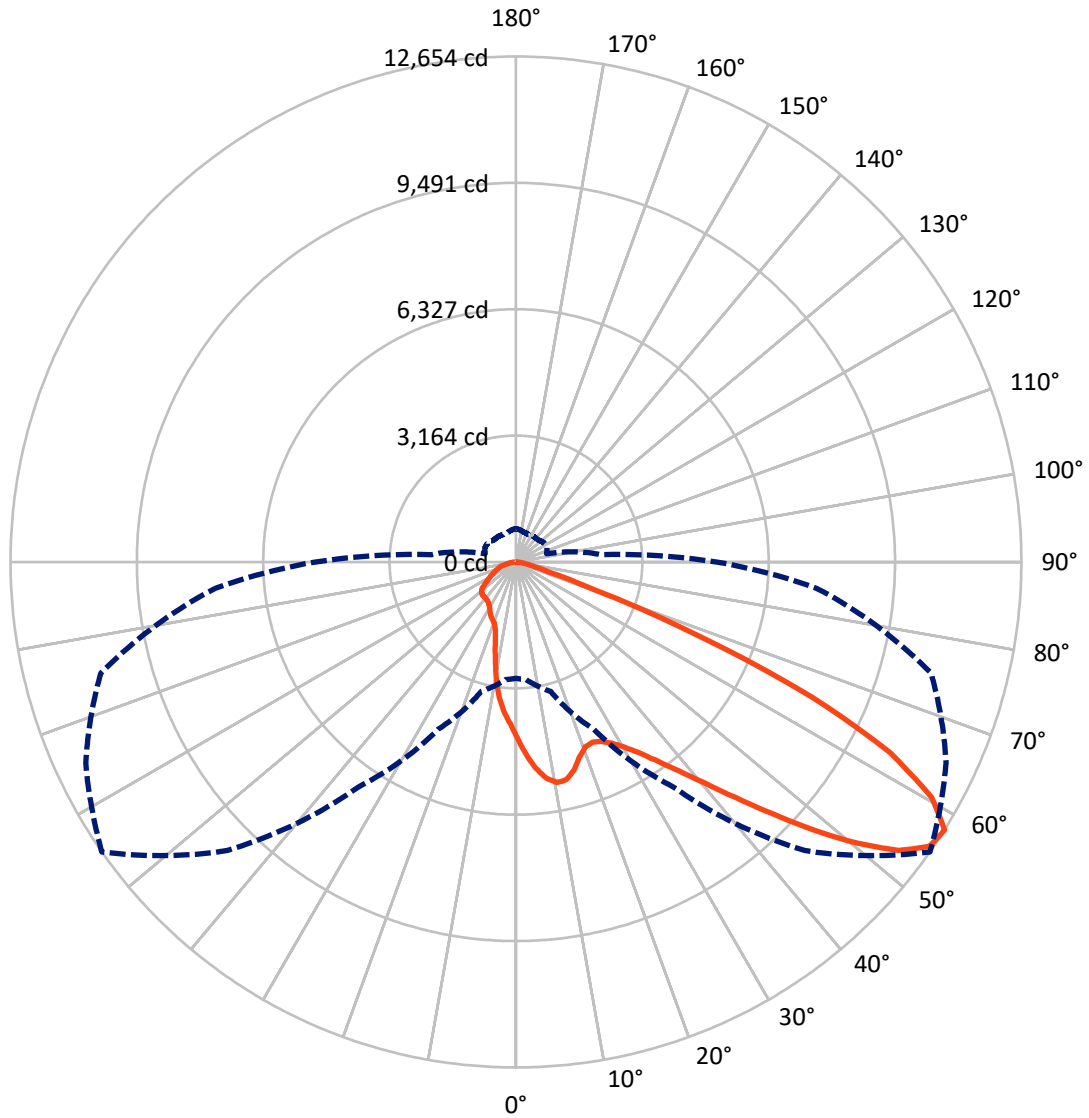
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3186.3	0.0	3186.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14422.7	0.0	14422.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	17609.0	0.0	17609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.4	2.3
10°-20°	1033.4	5.9
20°-30°	1649.0	9.4
30°-40°	2610.8	14.8
40°-50°	3996.2	22.7
50°-60°	4280.3	24.3
60°-70°	2692.7	15.3
70°-80°	796.3	4.5
80°-90°	140.8	0.8
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°	17609.0	100.0
0°-180°	17609.0	100.0

Coefficient of Utilization



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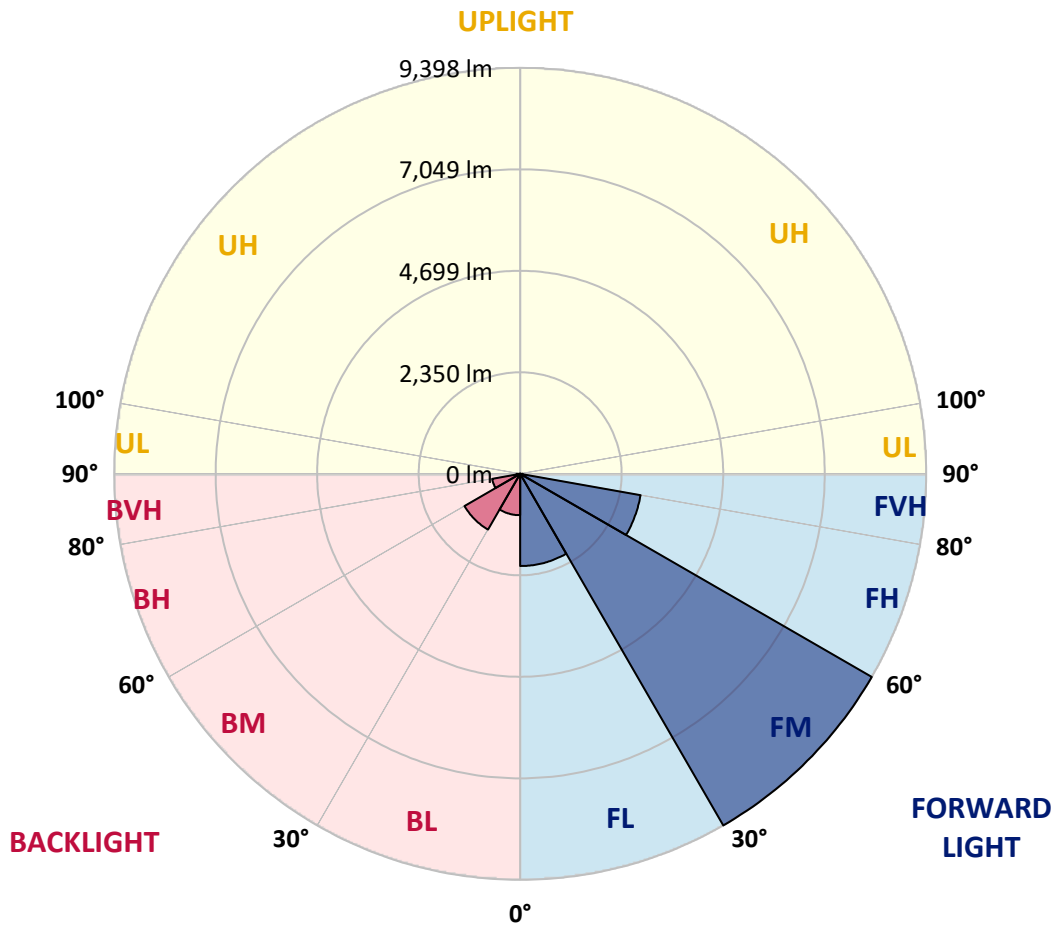
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2134.2	12.1			
FM (30°-60°)	9398.0	53.4			
FH (60°-80°)	2831.0	16.1			G2/5000
FVH (80°-90°)	59.5	0.3			G1/100
BL (0°-30°)	957.7	5.4	B2/1000		
BM (30°-60°)	1489.2	8.5	B2/2500		
BH (60°-80°)	658.0	3.7	B2/1000		G2/1000
BVH (80°-90°)	81.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2
2.5°	5062.2	5058.6	5078.6	5010.3	4963.9	4901.1	4818.2	4712.6	4598.9	4478.7
5°	5518.3	5486.4	5507.3	5456.4	5405.4	5310.7	5187.8	5015.8	4805.5	4566.1
7.5°	5446.3	5424.5	5478.2	5523.7	5562.0	5550.1	5460.0	5279.8	5008.5	4660.8
10°	4866.5	4841.9	4917.5	5074.9	5306.2	5507.3	5616.6	5504.6	5216.0	4764.5
12.5°	4354.9	4343.1	4393.1	4520.6	4777.3	5163.2	5596.5	5701.2	5431.8	4887.4
15°	4136.4	4121.9	4153.7	4218.3	4382.2	4741.8	5414.5	5836.0	5643.9	5029.4
17.5°	4088.2	4071.8	4085.4	4119.1	4224.7	4498.7	5139.6	5902.4	5865.1	5187.8
20°	4177.4	4163.7	4165.6	4163.7	4237.5	4455.0	4948.4	5876.9	6058.1	5333.5
22.5°	4393.1	4370.4	4371.3	4323.0	4363.1	4531.5	4898.3	5808.7	6230.1	5460.9
25°	4744.5	4703.5	4711.7	4588.8	4577.9	4702.6	4976.6	5755.9	6401.3	5562.9
27.5°	5225.1	5178.7	5154.1	4971.2	4883.8	4945.7	5135.9	5774.1	6563.3	5651.2
30°	5825.9	5769.5	5719.4	5460.0	5301.6	5278.9	5383.5	5894.2	6754.5	5744.0
32.5°	6562.4	6496.8	6405.8	6061.7	5838.7	5719.4	5704.0	6108.1	6978.4	5862.4
35°	7439.0	7353.4	7224.2	6779.0	6496.8	6252.9	6126.3	6416.7	7285.2	6040.8
37.5°	8342.0	8245.5	8127.2	7597.4	7250.6	6891.0	6641.6	6835.5	7693.9	6282.9
40°	9175.0	9066.6	8956.5	8484.9	8112.6	7679.3	7272.4	7365.3	8193.6	6572.4
42.5°	9666.5	9586.4	9544.5	9289.7	9002.0	8562.3	8057.1	7993.4	8755.3	6905.6
45°	9644.7	9611.9	9741.2	9846.8	9778.5	9534.5	8976.5	8687.9	9318.8	7194.1
47.5°	9129.4	9151.3	9439.9	10033.4	10294.6	10422.1	10023.4	9369.8	9808.5	7409.9
50°	7727.6	7745.8	8413.9	9693.8	10427.5	11145.8	11062.0	10035.2	10188.1	7541.9
52.5°	6617.9	6629.7	6916.5	8687.0	9988.8	11509.9	11997.8	10662.4	10465.8	7578.3
55°	4984.8	5025.8	5347.1	6815.4	8847.2	11221.3	12567.7	11308.7	10641.5	7581.9
57.5°	2912.1	2956.7	3353.6	4626.2	6876.4	10215.4	12654.1	11882.2	10760.7	7552.8
60°	1426.4	1445.6	1618.5	2431.4	4240.2	8277.4	11958.7	12159.8	10827.2	7537.3
62.5°	961.3	958.6	965.8	1199.8	2089.1	5318.0	10509.5	11673.7	10791.7	7478.1
65°	826.6	816.5	789.2	842.0	1082.4	2432.3	8119.9	10222.7	10521.3	7329.8
67.5°	714.6	715.5	716.4	700.0	772.8	1122.4	4962.1	8052.5	9550.9	6627.0
70°	591.7	599.9	603.5	603.5	629.9	736.4	2118.3	5519.2	7533.7	5196.0
72.5°	538.9	521.6	523.4	514.3	514.3	560.7	853.0	3128.7	4746.3	2923.0
75°	439.7	450.6	452.4	446.0	425.1	427.8	506.1	1312.7	2030.9	1212.5
77.5°	379.6	379.6	383.2	378.7	362.3	320.4	337.7	508.9	690.9	497.0
80°	305.0	304.0	319.5	328.6	303.1	236.7	215.7	281.3	306.8	218.5
82.5°	148.4	157.5	219.4	250.3	230.3	171.1	132.0	174.8	163.9	96.5
85°	86.5	81.9	98.3	139.3	132.0	94.7	63.7	91.0	85.6	49.2
87.5°	27.3	25.5	20.0	47.3	38.2	26.4	17.3	26.4	23.7	10.9
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4412.2	0°	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2
4426.8	2.5°	4362.2	4254.8	4148.3	4050.9	3991.7	3953.5	3915.2	3872.4	3856.0	3831.5
4438.6	5°	4318.5	4110.9	3926.1	3766.8	3622.1	3508.3	3393.6	3300.8	3258.9	3287.1
4476.0	7.5°	4293.0	3992.6	3707.7	3415.5	3134.2	2909.3	2713.6	2576.2	2514.3	2529.7
4512.4	10°	4270.2	3858.8	3424.6	2963.0	2558.9	2280.3	2080.0	1975.4	1936.2	1944.4
4561.5	12.5°	4249.3	3708.6	3083.2	2476.0	2046.4	1862.5	1805.1	1806.0	1813.3	1818.8
4639.8	15°	4245.7	3527.4	2701.8	2050.0	1769.6	1757.8	1819.7	1858.8	1879.8	1886.2
4705.4	17.5°	4240.2	3310.8	2313.1	1759.6	1702.3	1782.4	1839.7	1865.2	1881.6	1882.5
4769.1	20°	4218.3	3035.9	1954.4	1621.3	1687.7	1756.9	1792.4	1812.4	1826.1	1830.6
4817.3	22.5°	4151.0	2730.0	1675.0	1559.4	1629.4	1685.0	1726.8	1749.6	1757.8	1763.3
4826.4	25°	4029.9	2387.7	1482.0	1500.2	1548.4	1618.5	1652.2	1656.8	1654.0	1662.2
4803.7	27.5°	3871.5	2020.9	1361.8	1420.1	1482.0	1542.1	1560.3	1557.5	1552.1	1561.2
4764.5	30°	3680.4	1691.3	1285.3	1330.0	1414.6	1469.2	1485.6	1479.2	1468.3	1478.3
4744.5	32.5°	3478.3	1421.9	1222.5	1267.1	1359.1	1412.8	1429.2	1422.8	1414.6	1422.8
4767.3	35°	3289.8	1233.5	1164.3	1225.3	1315.4	1368.2	1389.1	1390.0	1390.0	1400.0
4827.3	37.5°	3116.9	1123.3	1116.0	1198.9	1285.3	1332.7	1362.7	1364.5	1325.4	1328.1
4929.3	40°	2956.7	1076.9	1094.2	1181.6	1256.2	1301.7	1303.6	1201.6	1129.7	1127.9
5045.8	42.5°	2825.6	1067.8	1100.6	1179.8	1235.3	1237.1	1108.8	1029.6	1009.5	1010.4
5153.2	45°	2702.7	1065.1	1115.1	1179.8	1204.3	1068.7	982.2	961.3	963.1	970.4
5201.5	47.5°	2565.2	1054.1	1117.9	1163.4	1115.1	950.4	924.9	915.8	912.1	913.9
5190.6	50°	2415.0	1015.0	1083.3	1130.6	962.2	899.4	867.5	864.8	869.3	872.1
5129.6	52.5°	2256.6	951.3	1024.1	1071.4	892.1	854.8	819.3	825.6	845.7	852.0
5065.8	55°	2152.9	876.6	945.8	953.1	842.9	812.9	782.9	797.4	834.7	846.6
5027.6	57.5°	2125.6	797.4	856.6	848.4	780.1	776.5	758.3	771.0	818.4	835.7
5025.8	60°	2117.4	726.4	769.2	762.8	719.1	736.4	731.9	738.3	754.6	760.1
5007.6	62.5°	2053.6	670.0	690.9	681.8	664.5	694.6	705.5	691.8	704.6	710.9
4882.9	65°	1891.6	624.5	614.5	608.1	615.4	642.7	664.5	637.2	649.0	667.3
4402.2	67.5°	1624.0	562.6	535.3	542.5	565.3	579.9	608.1	577.1	587.1	618.1
3545.6	70°	1313.6	484.3	459.7	480.6	502.5	532.5	537.1	516.1	539.8	574.4
2163.8	72.5°	929.4	405.1	387.8	430.6	437.9	477.0	467.0	457.0	489.7	501.6
1069.6	75°	644.5	326.8	316.8	349.6	376.0	409.6	402.4	414.2	483.4	488.8
534.3	77.5°	407.8	254.0	247.6	268.5	305.0	342.3	354.1	488.8	825.6	858.4
277.6	80°	236.7	189.3	182.1	198.4	230.3	264.9	341.4	599.9	544.4	538.0
124.7	82.5°	132.0	130.2	121.1	125.6	153.8	191.2	482.5	422.4	343.2	354.1
50.1	85°	61.9	76.5	65.5	62.8	86.5	223.9	322.2	241.2	160.2	156.6
10.9	87.5°	16.4	14.6	14.6	16.4	36.4	193.0	128.4	102.9	61.0	59.2
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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