

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: P953737

Luminaire Tested: **GALN-SB7A-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953737
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-SB7A-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22570 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

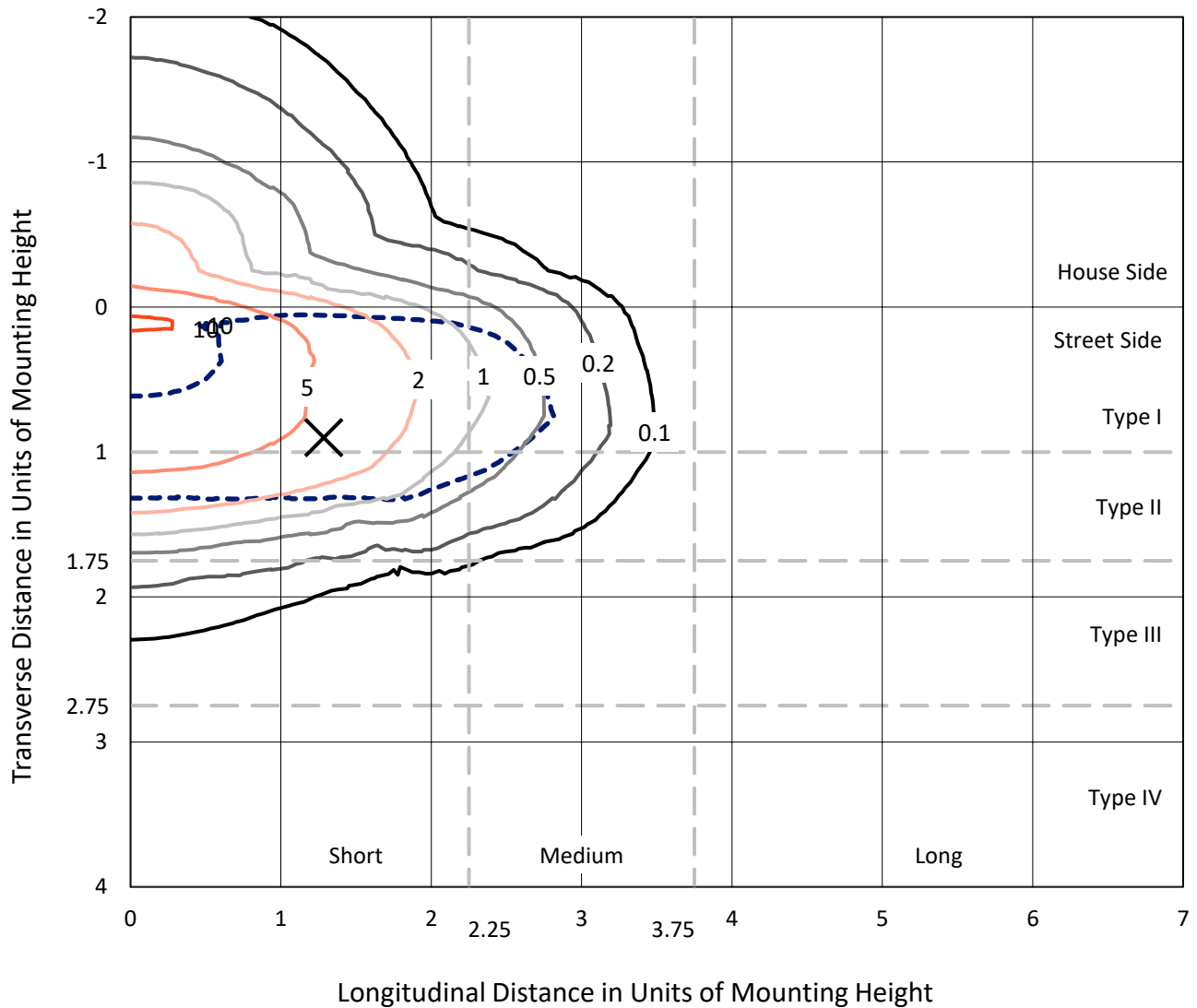
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

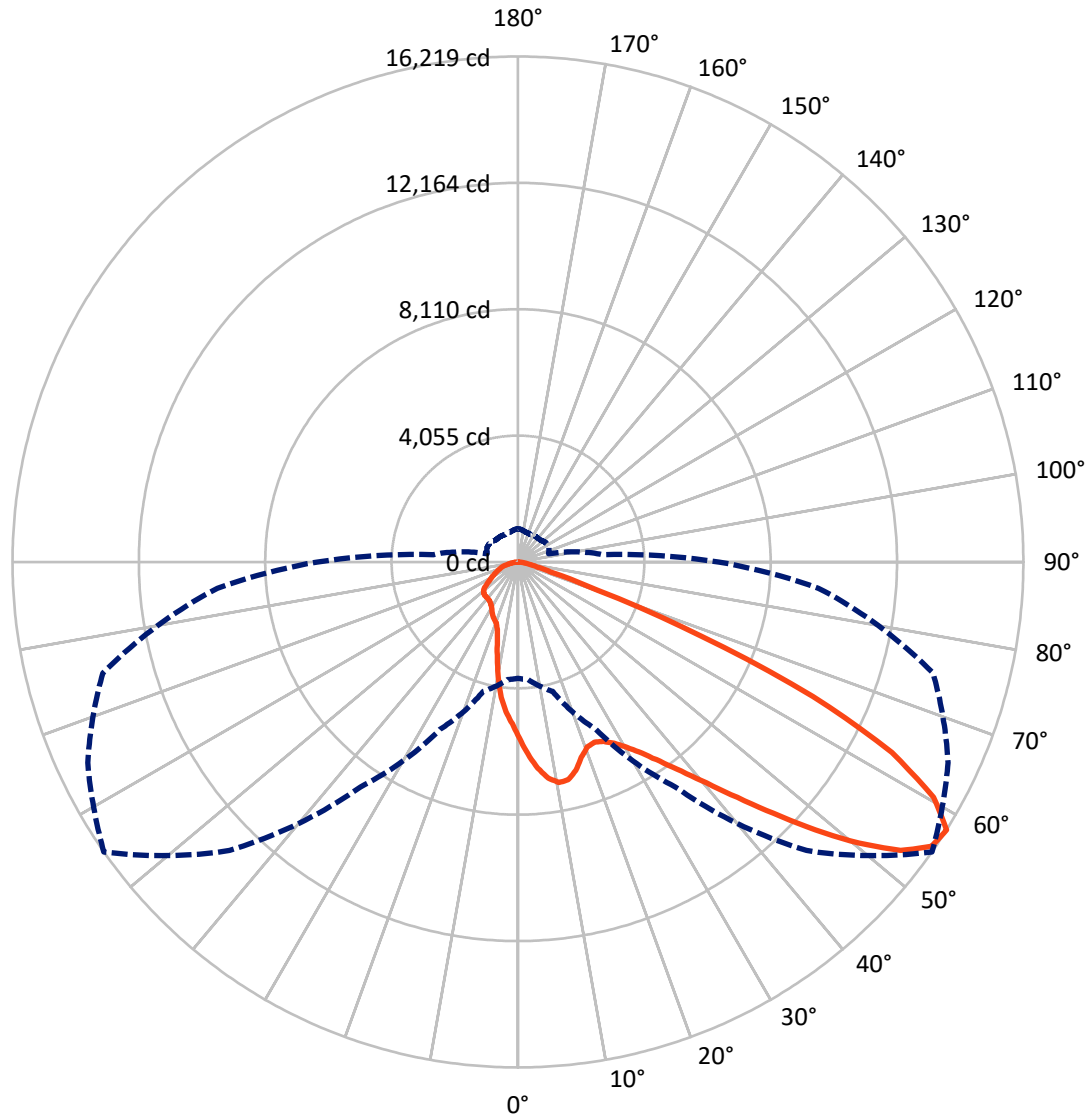
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	4083.9	0.0	4083.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18486.1	0.0	18486.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	22570.0	0.0	22570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.8	2.3
10°-20°	1324.6	5.9
20°-30°	2113.6	9.4
30°-40°	3346.4	14.8
40°-50°	5122.0	22.7
50°-60°	5486.2	24.3
60°-70°	3451.4	15.3
70°-80°	1020.6	4.5
80°-90°	180.5	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°	22570.0	100.0
0°-180°	22570.0	100.0

Coefficient of Utilization



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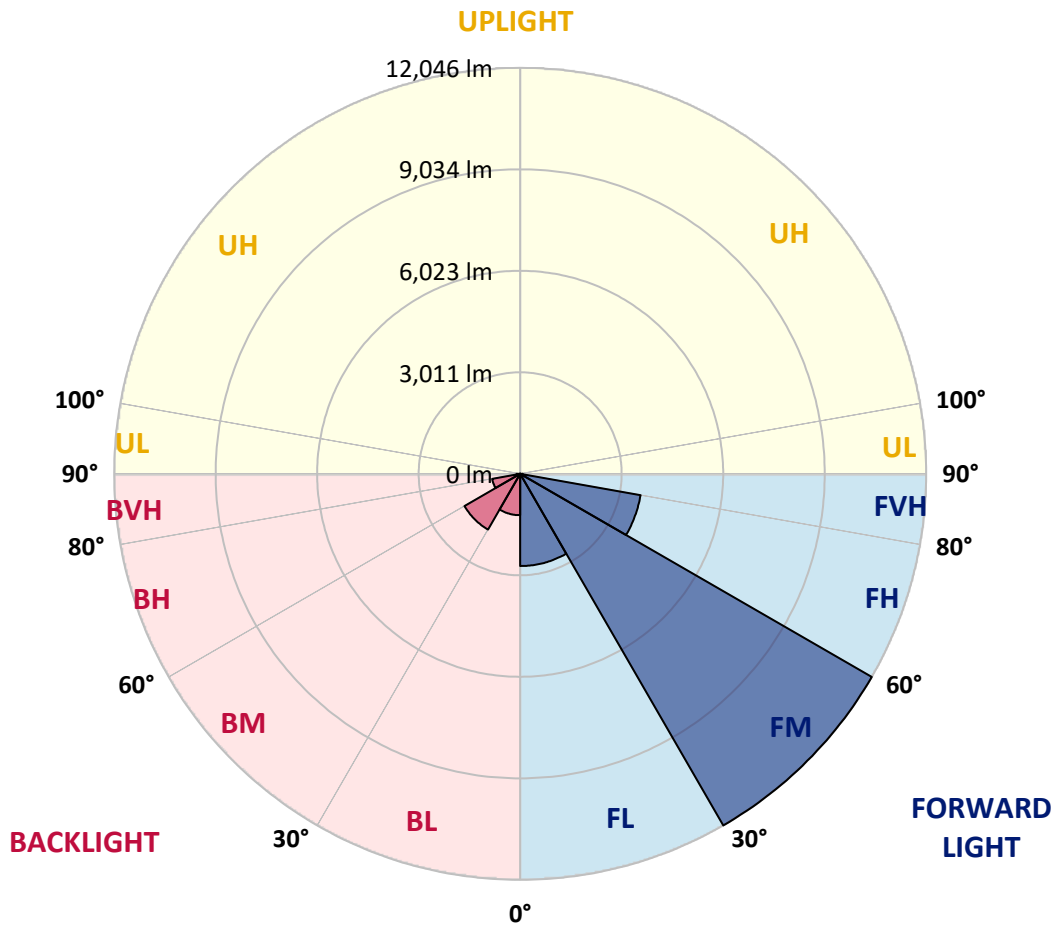
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2735.5	12.1			
FM (30°-60°)	12045.8	53.4			
FH (60°-80°)	3628.6	16.1			G2/5000
FVH (80°-90°)	76.2	0.3			G1/100
BL (0°-30°)	1227.5	5.4	B3/2500		
BM (30°-60°)	1908.8	8.5	B2/2500		
BH (60°-80°)	843.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	104.2	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5655.3	5655.3	5655.3	5655.3	5655.3	5655.3	5655.3	5655.3	5655.3	5655.3
2.5°	6488.4	6483.7	6509.4	6421.9	6362.4	6281.9	6175.7	6040.3	5894.5	5740.5
5°	7072.9	7032.1	7058.9	6993.6	6928.2	6806.9	6649.4	6428.9	6159.4	5852.5
7.5°	6980.8	6952.8	7021.6	7079.9	7128.9	7113.8	6998.3	6767.2	6419.5	5973.8
10°	6237.5	6206.0	6302.9	6504.7	6801.1	7058.9	7198.9	7055.4	6685.6	6106.8
12.5°	5581.8	5566.6	5630.8	5794.2	6123.2	6617.9	7173.3	7307.4	6962.1	6264.4
15°	5301.8	5283.1	5323.9	5406.8	5616.8	6077.7	6939.9	7480.1	7233.9	6446.4
17.5°	5239.9	5218.9	5236.4	5279.6	5415.0	5766.2	6587.6	7565.3	7517.5	6649.4
20°	5354.3	5336.8	5339.1	5336.8	5431.3	5710.1	6342.5	7532.6	7764.8	6836.1
22.5°	5630.8	5601.6	5602.8	5541.0	5592.3	5808.2	6278.4	7445.1	7985.3	6999.4
25°	6081.2	6028.7	6039.2	5881.7	5867.7	6027.5	6378.7	7377.5	8204.7	7130.1
27.5°	6697.2	6637.7	6606.2	6371.7	6259.7	6339.0	6582.9	7400.8	8412.4	7243.3
30°	7467.3	7395.0	7330.8	6998.3	6795.2	6766.1	6900.2	7554.8	8657.4	7362.3
32.5°	8411.2	8327.2	8210.5	7769.5	7483.6	7330.8	7310.9	7829.0	8944.4	7514.0
35°	9534.8	9425.1	9259.4	8688.9	8327.2	8014.5	7852.3	8224.5	9337.6	7742.7
37.5°	10692.2	10568.6	10416.9	9737.8	9293.3	8832.4	8512.7	8761.2	9861.5	8053.0
40°	11759.8	11621.0	11479.8	10875.4	10398.2	9842.8	9321.3	9440.3	10502.1	8424.0
42.5°	12389.9	12287.2	12233.5	11906.8	11538.1	10974.6	10327.0	10245.4	11221.9	8851.1
45°	12361.9	12319.9	12485.6	12620.9	12533.4	12220.7	11505.5	11135.6	11944.2	9220.9
47.5°	11701.5	11729.5	12099.4	12860.1	13194.9	13358.3	12847.2	12009.5	12571.9	9497.5
50°	9904.7	9928.0	10784.4	12424.9	13365.3	14285.9	14178.5	12862.4	13058.4	9666.6
52.5°	8482.4	8497.5	8865.1	11134.4	12802.9	14752.6	15378.0	13666.3	13414.3	9713.3
55°	6389.2	6441.7	6853.6	8735.6	11339.8	14382.7	16108.4	14494.7	13639.5	9718.0
57.5°	3732.5	3789.7	4298.4	5929.5	8813.7	13093.4	16219.2	15229.8	13792.3	9680.6
60°	1828.3	1852.8	2074.5	3116.4	5434.8	10609.4	15327.8	15585.6	13877.5	9660.8
62.5°	1232.1	1228.6	1237.9	1537.8	2677.7	6816.2	13470.3	14962.6	13832.0	9585.0
65°	1059.4	1046.6	1011.6	1079.3	1387.3	3117.6	10407.5	13102.8	13485.5	9394.8
67.5°	915.9	917.1	918.2	897.2	990.6	1438.6	6360.0	10321.2	12241.7	8494.0
70°	758.4	768.9	773.6	773.6	807.4	943.9	2715.1	7074.1	9656.1	6659.9
72.5°	690.7	668.6	670.9	659.2	659.2	718.7	1093.3	4010.2	6083.5	3746.5
75°	563.5	577.5	579.9	571.7	544.9	548.4	648.7	1682.5	2603.1	1554.1
77.5°	486.5	486.5	491.2	485.4	464.4	410.7	432.9	652.2	885.6	637.1
80°	390.9	389.7	409.5	421.2	388.5	303.4	276.5	360.5	393.2	280.0
82.5°	190.2	201.9	281.2	320.9	295.2	219.4	169.2	224.0	210.0	123.7
85°	110.8	105.0	126.0	178.5	169.2	121.3	81.7	116.7	109.7	63.0
87.5°	35.0	32.7	25.7	60.7	49.0	33.8	22.2	33.8	30.3	14.0
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5655.3	0°	5655.3	5655.3	5655.3	5655.3	5655.3	5655.3	5655.3	5655.3	5655.3	5655.3
5674.0	2.5°	5591.1	5453.5	5316.9	5192.1	5116.3	5067.3	5018.3	4963.4	4942.4	4910.9
5689.1	5°	5535.1	5269.1	5032.3	4828.1	4642.6	4496.7	4349.7	4230.7	4177.0	4213.2
5737.0	7.5°	5502.5	5117.4	4752.2	4377.7	4017.2	3729.0	3478.1	3301.9	3222.6	3242.4
5783.7	10°	5473.3	4945.9	4389.4	3797.8	3279.8	2922.7	2666.1	2531.9	2481.7	2492.2
5846.7	12.5°	5446.5	4753.4	3951.8	3173.6	2622.9	2387.2	2313.7	2314.9	2324.2	2331.2
5947.0	15°	5441.8	4521.2	3463.0	2627.6	2268.2	2253.0	2332.4	2382.5	2409.4	2417.5
6031.0	17.5°	5434.8	4243.5	2964.7	2255.4	2181.9	2284.5	2358.0	2390.7	2411.7	2412.9
6112.7	20°	5406.8	3891.2	2505.0	2078.0	2163.2	2251.9	2297.4	2323.0	2340.5	2346.4
6174.5	22.5°	5320.4	3499.1	2146.8	1998.7	2088.5	2159.7	2213.4	2242.5	2253.0	2260.0
6186.2	25°	5165.3	3060.4	1899.5	1922.8	1984.7	2074.5	2117.7	2123.5	2120.0	2130.5
6157.0	27.5°	4962.3	2590.2	1745.5	1820.2	1899.5	1976.5	1999.8	1996.3	1989.3	2001.0
6106.8	30°	4717.2	2167.8	1647.5	1704.6	1813.2	1883.2	1904.2	1896.0	1882.0	1894.8
6081.2	32.5°	4458.2	1822.5	1567.0	1624.1	1742.0	1810.8	1831.8	1823.7	1813.2	1823.7
6110.3	35°	4216.7	1581.0	1492.3	1570.5	1686.0	1753.6	1780.5	1781.6	1781.6	1794.5
6187.4	37.5°	3995.0	1439.8	1430.5	1536.6	1647.5	1708.1	1746.6	1749.0	1698.8	1702.3
6318.0	40°	3789.7	1380.3	1402.5	1514.5	1610.1	1668.5	1670.8	1540.1	1448.0	1445.6
6467.4	42.5°	3621.6	1368.6	1410.6	1512.1	1583.3	1585.6	1421.1	1319.6	1293.9	1295.1
6605.1	45°	3464.1	1365.1	1429.3	1512.1	1543.6	1369.8	1258.9	1232.1	1234.4	1243.8
6666.9	47.5°	3287.9	1351.1	1432.8	1491.1	1429.3	1218.1	1185.4	1173.8	1169.1	1171.4
6652.9	50°	3095.4	1300.9	1388.5	1449.1	1233.3	1152.8	1111.9	1108.4	1114.3	1117.8
6574.7	52.5°	2892.4	1219.3	1312.6	1373.3	1143.4	1095.6	1050.1	1058.3	1083.9	1092.1
6493.0	55°	2759.4	1123.6	1212.3	1221.6	1080.4	1041.9	1003.4	1022.1	1069.9	1085.1
6444.0	57.5°	2724.4	1022.1	1097.9	1087.4	999.9	995.3	971.9	988.2	1048.9	1071.1
6441.7	60°	2713.9	931.1	985.9	977.7	921.7	943.9	938.1	946.2	967.2	974.2
6418.4	62.5°	2632.2	858.7	885.6	873.9	851.7	890.2	904.2	886.7	903.1	911.2
6258.5	65°	2424.5	800.4	787.6	779.4	788.7	823.7	851.7	816.7	831.9	855.2
5642.5	67.5°	2081.5	721.1	686.1	695.4	724.6	743.2	779.4	739.7	752.6	792.2
4544.5	70°	1683.6	620.7	589.2	616.1	644.1	682.6	688.4	661.6	691.9	736.2
2773.4	72.5°	1191.3	519.2	497.0	551.9	561.2	611.4	598.6	585.7	627.7	642.9
1370.9	75°	826.1	418.9	406.0	448.0	481.9	525.0	515.7	530.9	619.6	626.6
684.9	77.5°	522.7	325.5	317.4	344.2	390.9	438.7	453.9	626.6	1058.3	1100.3
355.9	80°	303.4	242.7	233.4	254.4	295.2	339.5	437.5	768.9	697.7	689.6
159.8	82.5°	169.2	166.8	155.2	161.0	197.2	245.0	618.4	541.4	439.9	453.9
64.2	85°	79.3	98.0	84.0	80.5	110.8	287.0	413.0	309.2	205.4	200.7
14.0	87.5°	21.0	18.7	18.7	21.0	46.7	247.4	164.5	131.8	78.2	75.8
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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