

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: P953821

Luminaire Tested: **GALN-SB7B-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953821
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-SB7B-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40728 lumens
Efficiency: N/A
Efficacy: 158.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

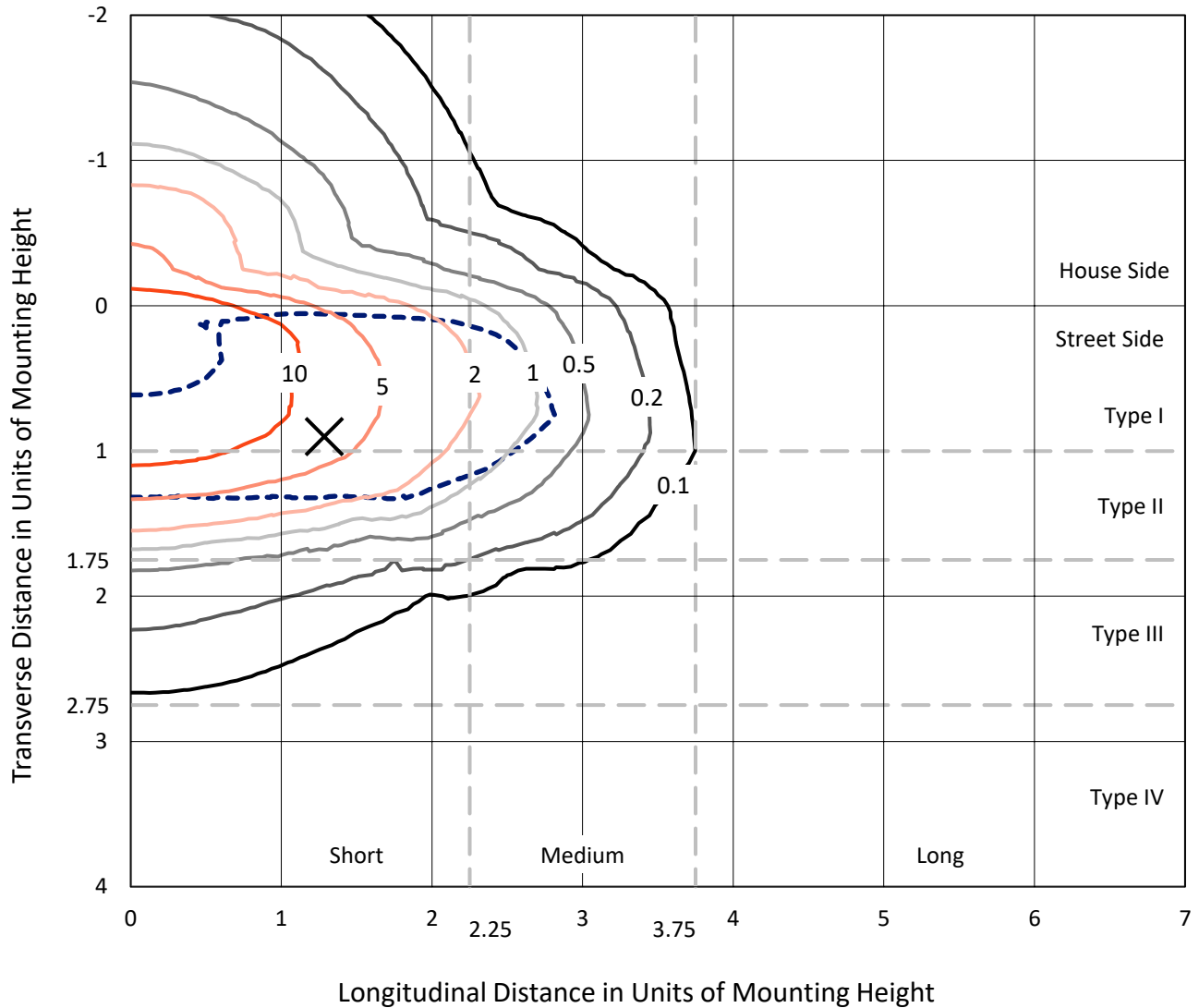
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

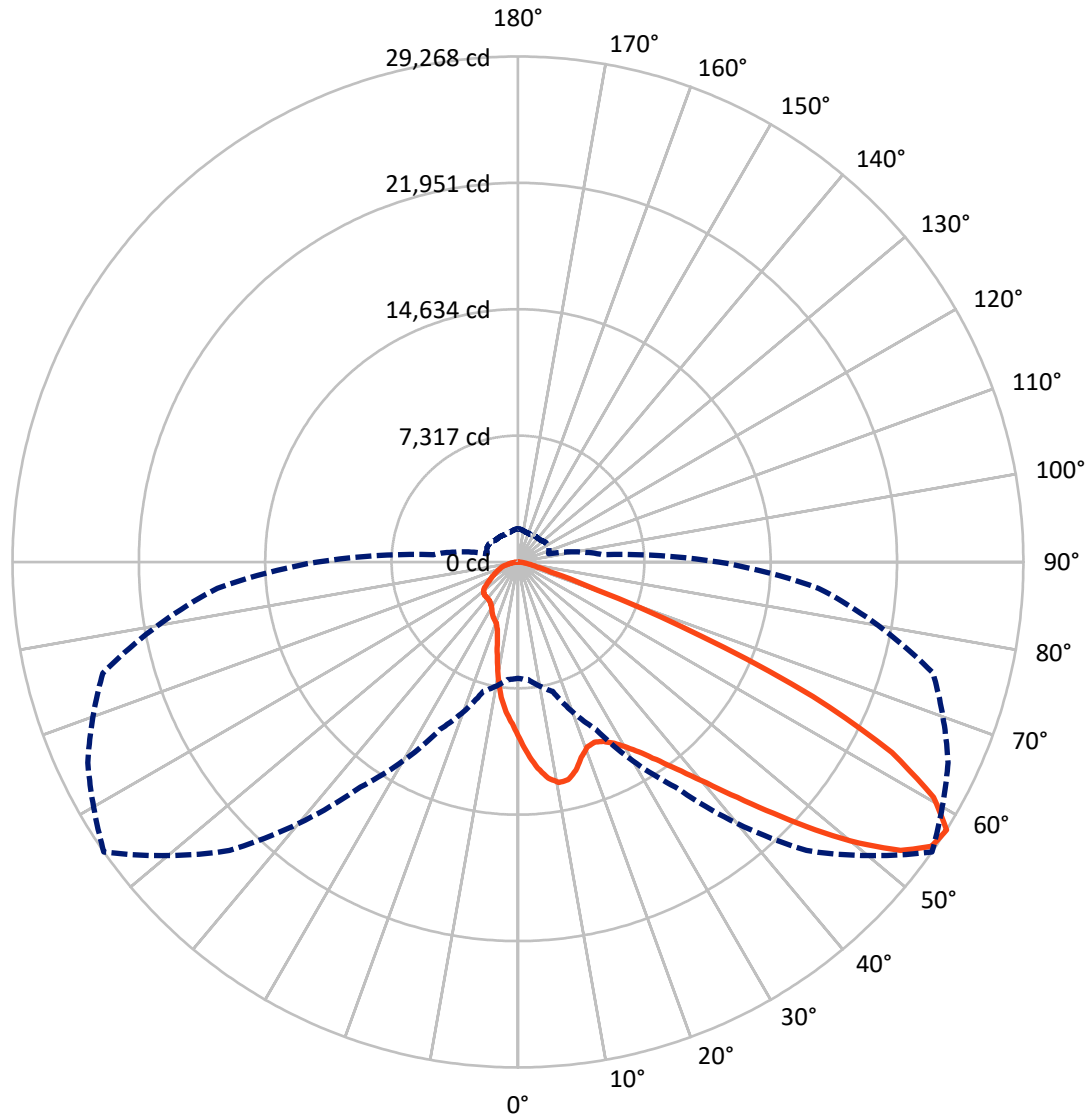
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 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	7369.5	0.0	7369.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	33358.5	0.0	33358.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	40728.0	0.0	40728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	947.0	2.3
10°-20°	2390.2	5.9
20°-30°	3814.1	9.4
30°-40°	6038.6	14.8
40°-50°	9242.8	22.7
50°-60°	9899.9	24.3
60°-70°	6228.1	15.3
70°-80°	1841.8	4.5
80°-90°	325.6	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°	40728.0	100.0
0°-180°	40728.0	100.0

Coefficient of Utilization



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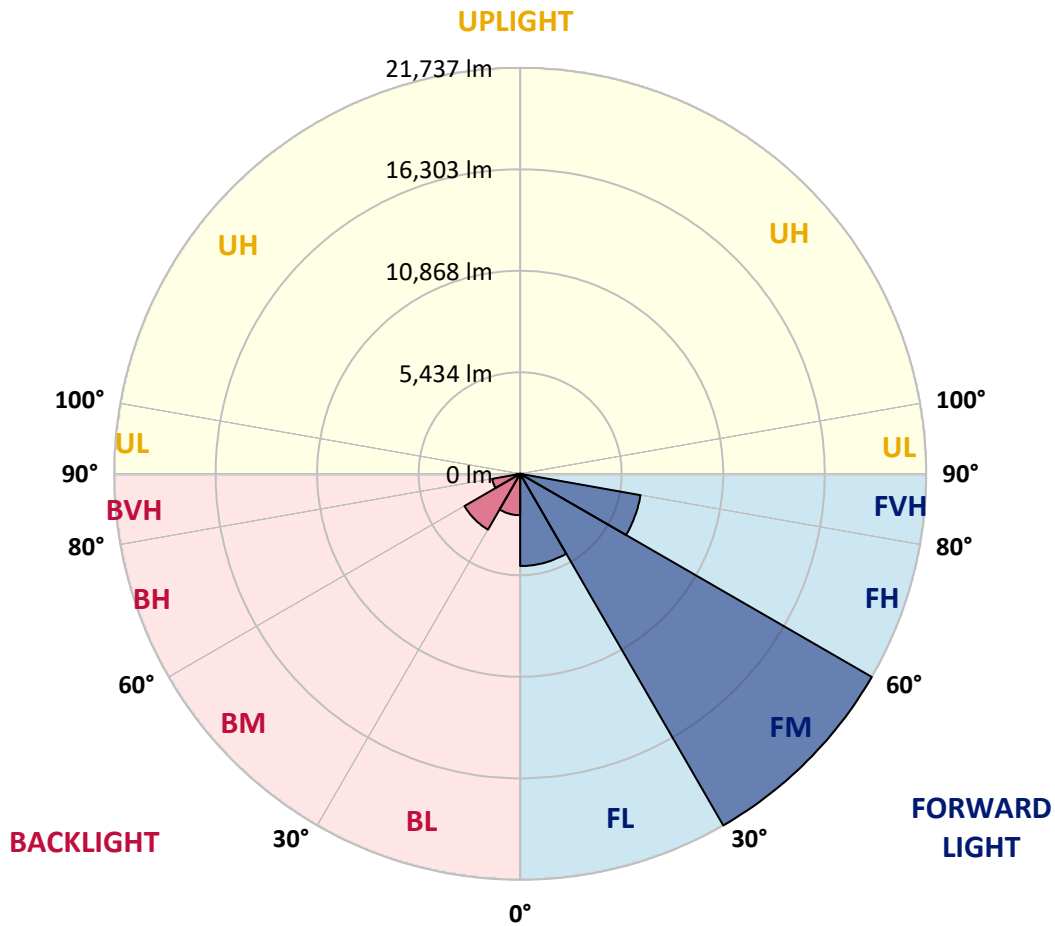
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4936.2	12.1			
FM (30°-60°)	21736.8	53.4			
FH (60°-80°)	6547.8	16.1			G3/7500
FVH (80°-90°)	137.6	0.3			G2/225
BL (0°-30°)	2215.0	5.4	B3/2500		
BM (30°-60°)	3444.5	8.5	B3/5000		
BH (60°-80°)	1522.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	188.1	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10205.1	10205.1	10205.1	10205.1	10205.1	10205.1	10205.1	10205.1	10205.1	10205.1
2.5°	11708.4	11700.0	11746.3	11588.4	11481.0	11335.7	11144.1	10899.9	10636.7	10358.8
5°	12763.2	12689.5	12738.0	12620.1	12502.2	12283.2	11999.0	11601.0	11114.7	10560.9
7.5°	12596.9	12546.4	12670.6	12775.9	12864.3	12836.9	12628.5	12211.6	11584.2	10779.9
10°	11255.7	11198.9	11373.6	11737.9	12272.7	12738.0	12990.6	12731.7	12064.2	11019.9
12.5°	10072.5	10045.1	10160.9	10455.7	11049.4	11942.1	12944.3	13186.4	12563.2	11304.2
15°	9567.2	9533.5	9607.2	9756.7	10135.6	10967.3	12523.2	13498.0	13053.8	11632.6
17.5°	9455.6	9417.7	9449.3	9527.2	9771.4	10405.1	11887.4	13651.7	13565.4	11999.0
20°	9661.9	9630.3	9634.5	9630.3	9800.9	10304.1	11445.2	13592.8	14011.8	12335.8
22.5°	10160.9	10108.3	10110.4	9998.8	10091.4	10480.9	11329.4	13434.9	14409.7	12630.6
25°	10973.6	10878.9	10897.8	10613.6	10588.3	10876.8	11510.5	13312.8	14805.5	12866.4
27.5°	12085.3	11977.9	11921.1	11497.9	11295.7	11438.9	11878.9	13354.9	15180.3	13070.6
30°	13474.9	13344.3	13228.5	12628.5	12262.1	12209.5	12451.6	13632.8	15622.4	13285.4
32.5°	15178.2	15026.6	14816.0	14020.2	13504.4	13228.5	13192.7	14127.6	16140.4	13559.1
35°	17205.7	17007.8	16708.8	15679.3	15026.6	14462.3	14169.7	14841.3	16849.9	13971.8
37.5°	19294.3	19071.2	18797.5	17572.1	16769.9	15938.3	15361.4	15809.8	17795.3	14531.8
40°	21220.8	20970.3	20715.5	19624.9	18763.8	17761.6	16820.4	17035.2	18951.2	15201.3
42.5°	22357.8	22172.5	22075.6	21486.1	20820.8	19803.9	18635.3	18488.0	20250.2	15971.9
45°	22307.2	22231.4	22530.4	22774.6	22616.7	22052.5	20761.8	20094.4	21553.5	16639.4
47.5°	21115.6	21166.1	21833.5	23206.3	23810.5	24105.3	23183.1	21671.4	22686.2	17138.4
50°	17873.2	17915.3	19460.7	22420.9	24117.9	25779.1	25585.4	23210.5	23564.2	17443.7
52.5°	15306.6	15334.0	15997.2	20092.3	23103.1	26621.3	27749.8	24661.1	24206.4	17527.9
55°	11529.4	11624.2	12367.4	15763.5	20462.9	25953.9	29067.8	26156.0	24612.7	17536.3
57.5°	6735.3	6838.5	7756.5	10699.9	15904.6	23627.4	29267.9	27482.4	24888.5	17468.9
60°	3299.2	3343.5	3743.5	5623.7	9807.2	19144.9	27659.3	28124.6	25042.2	17433.1
62.5°	2223.4	2217.0	2233.9	2775.0	4832.0	12300.0	24307.4	27000.3	24960.1	17296.3
65°	1911.7	1888.6	1825.4	1947.5	2503.4	5625.8	18780.6	23644.2	24334.8	16953.1
67.5°	1652.8	1654.9	1657.0	1619.1	1787.5	2596.0	11476.8	18624.8	22090.4	15327.7
70°	1368.5	1387.5	1395.9	1395.9	1457.0	1703.3	4899.4	12765.3	17424.7	12017.9
72.5°	1246.4	1206.4	1210.6	1189.6	1189.6	1297.0	1972.8	7236.4	10977.8	6760.6
75°	1016.9	1042.2	1046.4	1031.7	983.2	989.6	1170.6	3036.1	4697.3	2804.5
77.5°	878.0	878.0	886.4	875.9	838.0	741.1	781.1	1176.9	1598.0	1149.6
80°	705.3	703.2	739.0	760.1	701.1	547.4	499.0	650.6	709.5	505.3
82.5°	343.2	364.2	507.4	579.0	532.7	395.8	305.3	404.2	379.0	223.2
85°	200.0	189.5	227.4	322.1	305.3	219.0	147.4	210.5	197.9	113.7
87.5°	63.2	59.0	46.3	109.5	88.4	61.1	40.0	61.1	54.7	25.3
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°
10205.1	0°	10205.1	10205.1	10205.1	10205.1	10205.1	10205.1	10205.1	10205.1	10205.1	10205.1
10238.8	2.5°	10089.3	9840.9	9594.5	9369.3	9232.4	9144.0	9055.5	8956.6	8918.7	8861.8
10266.2	5°	9988.3	9508.2	9080.8	8712.4	8377.6	8114.4	7849.1	7634.4	7537.5	7602.8
10352.5	7.5°	9929.3	9234.5	8575.5	7899.6	7249.1	6729.0	6276.3	5958.4	5815.3	5851.0
10436.7	10°	9876.7	8925.0	7920.7	6853.2	5918.4	5274.2	4811.0	4568.8	4478.3	4497.2
10550.4	12.5°	9828.2	8577.6	7131.2	5726.8	4733.1	4307.8	4175.1	4177.2	4194.1	4206.7
10731.5	15°	9819.8	8158.6	6249.0	4741.5	4093.0	4065.6	4208.8	4299.3	4347.8	4362.5
10883.1	17.5°	9807.2	7657.5	5349.9	4069.8	3937.2	4122.5	4255.1	4314.1	4352.0	4354.1
11030.5	20°	9756.7	7021.7	4520.4	3749.8	3903.5	4063.5	4145.6	4192.0	4223.5	4234.1
11142.0	22.5°	9600.9	6314.2	3874.0	3606.6	3768.8	3897.2	3994.0	4046.7	4065.6	4078.3
11163.1	25°	9320.8	5522.6	3427.7	3469.8	3581.4	3743.5	3821.4	3831.9	3825.6	3844.6
11110.5	27.5°	8954.5	4674.1	3149.8	3284.5	3427.7	3566.6	3608.7	3602.4	3589.8	3610.8
11019.9	30°	8512.3	3911.9	2972.9	3076.1	3271.9	3398.2	3436.1	3421.4	3396.1	3419.3
10973.6	32.5°	8044.9	3288.7	2827.6	2930.8	3143.4	3267.7	3305.6	3290.8	3271.9	3290.8
11026.2	35°	7609.1	2852.9	2692.9	2833.9	3042.4	3164.5	3212.9	3215.0	3215.0	3238.2
11165.2	37.5°	7209.1	2598.1	2581.3	2772.9	2972.9	3082.4	3151.9	3156.1	3065.5	3071.9
11401.0	40°	6838.5	2490.7	2530.8	2732.9	2905.5	3010.8	3015.0	2779.2	2612.9	2608.7
11670.5	42.5°	6535.3	2469.7	2545.5	2728.7	2857.1	2861.3	2564.4	2381.3	2334.9	2337.0
11919.0	45°	6251.1	2463.4	2579.2	2728.7	2785.5	2471.8	2271.8	2223.4	2227.6	2244.4
12030.5	47.5°	5933.2	2438.1	2585.5	2690.8	2579.2	2198.1	2139.1	2118.1	2109.7	2113.9
12005.3	50°	5585.8	2347.6	2505.5	2615.0	2225.5	2080.2	2006.5	2000.2	2010.7	2017.0
11864.2	52.5°	5219.4	2200.2	2368.6	2478.1	2063.3	1977.0	1894.9	1909.6	1956.0	1970.7
11716.8	55°	4979.4	2027.5	2187.6	2204.4	1949.6	1880.2	1810.7	1844.4	1930.7	1958.1
11628.4	57.5°	4916.2	1844.4	1981.2	1962.3	1804.4	1795.9	1753.8	1783.3	1892.8	1932.8
11624.2	60°	4897.3	1680.1	1779.1	1764.4	1663.3	1703.3	1692.8	1707.5	1745.4	1758.1
11582.1	62.5°	4749.9	1549.6	1598.0	1577.0	1537.0	1606.5	1631.7	1600.1	1629.6	1644.4
11293.6	65°	4375.1	1444.3	1421.2	1406.4	1423.3	1486.4	1537.0	1473.8	1501.2	1543.3
10182.0	67.5°	3756.1	1301.2	1238.0	1254.8	1307.5	1341.2	1406.4	1334.9	1358.0	1429.6
8200.7	70°	3038.2	1120.1	1063.3	1111.7	1162.2	1231.7	1242.2	1193.8	1248.5	1328.5
5004.7	72.5°	2149.7	936.9	896.9	995.9	1012.7	1103.3	1080.1	1056.9	1132.7	1160.1
2473.9	75°	1490.7	755.9	732.7	808.5	869.6	947.5	930.6	958.0	1118.0	1130.6
1235.9	77.5°	943.2	587.4	572.7	621.1	705.3	791.6	819.0	1130.6	1909.6	1985.4
642.2	80°	547.4	437.9	421.1	459.0	532.7	612.7	789.5	1387.5	1259.1	1244.3
288.4	82.5°	305.3	301.1	280.0	290.6	355.8	442.1	1115.9	976.9	793.8	819.0
115.8	85°	143.2	176.9	151.6	145.3	200.0	517.9	745.3	557.9	370.6	362.1
25.3	87.5°	37.9	33.7	33.7	37.9	84.2	446.4	296.9	237.9	141.1	136.9
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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