

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: P954535

Luminaire Tested: **GALN-SB7D-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954535
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-SB7D-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73601 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

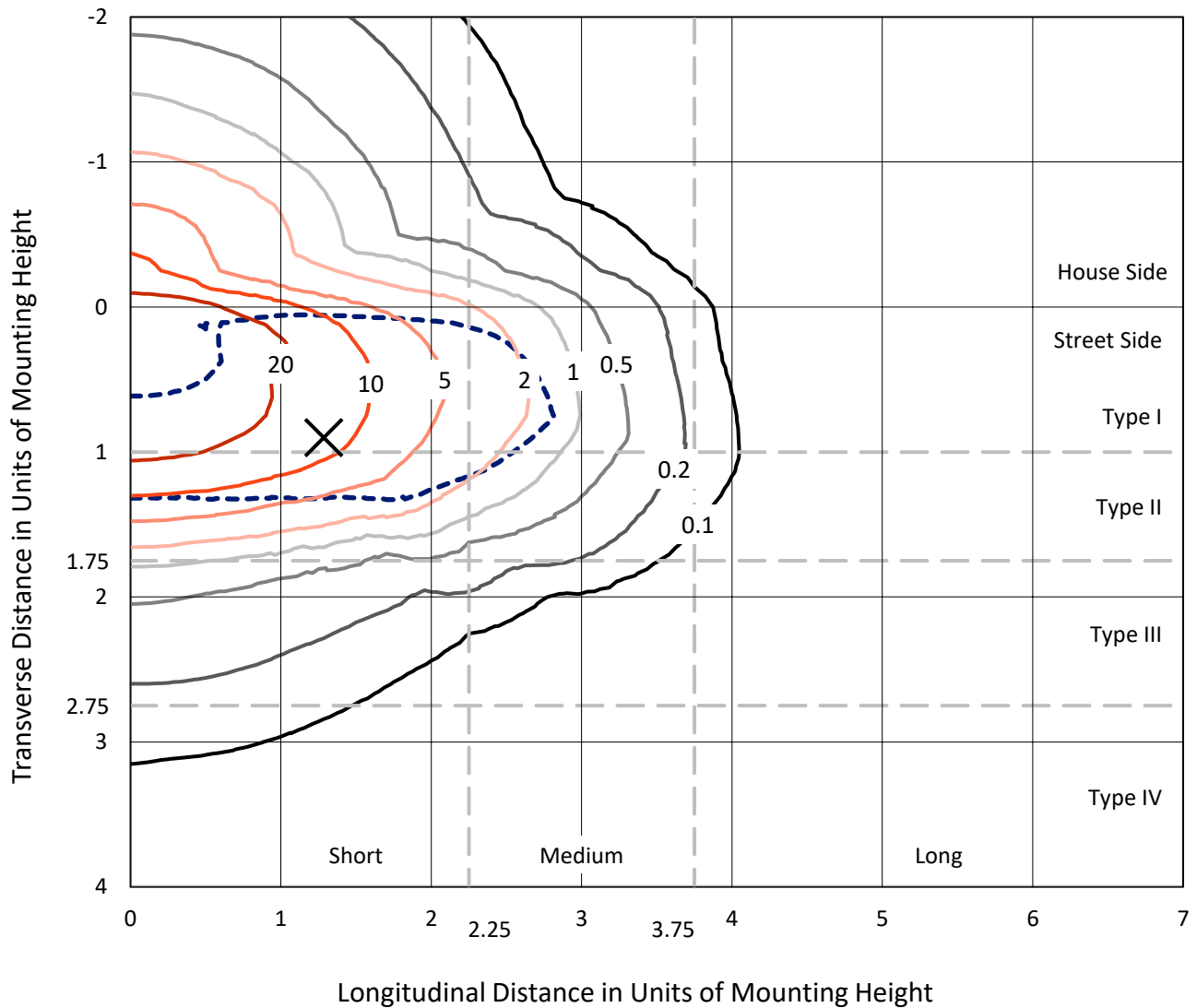
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

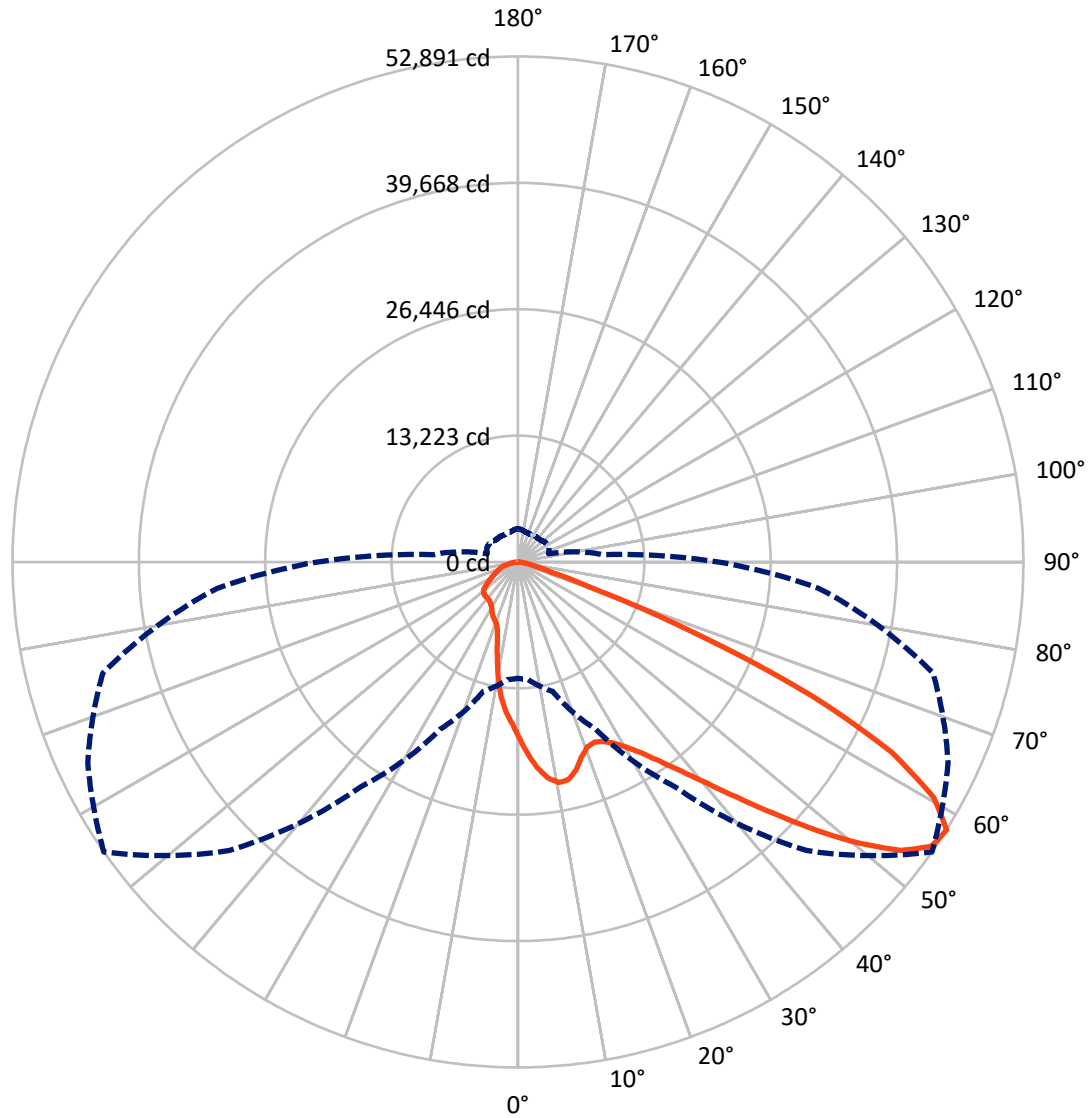
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 35.7 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	13317.7	0.0	13317.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	60283.3	0.0	60283.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	73601.0	0.0	73601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1711.3	2.3
10°-20°	4319.4	5.9
20°-30°	6892.6	9.4
30°-40°	10912.7	14.8
40°-50°	16702.9	22.7
50°-60°	17890.4	24.3
60°-70°	11254.9	15.3
70°-80°	3328.3	4.5
80°-90°	588.5	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°	73601.0	100.0
0°-180°	73601.0	100.0

Coefficient of Utilization

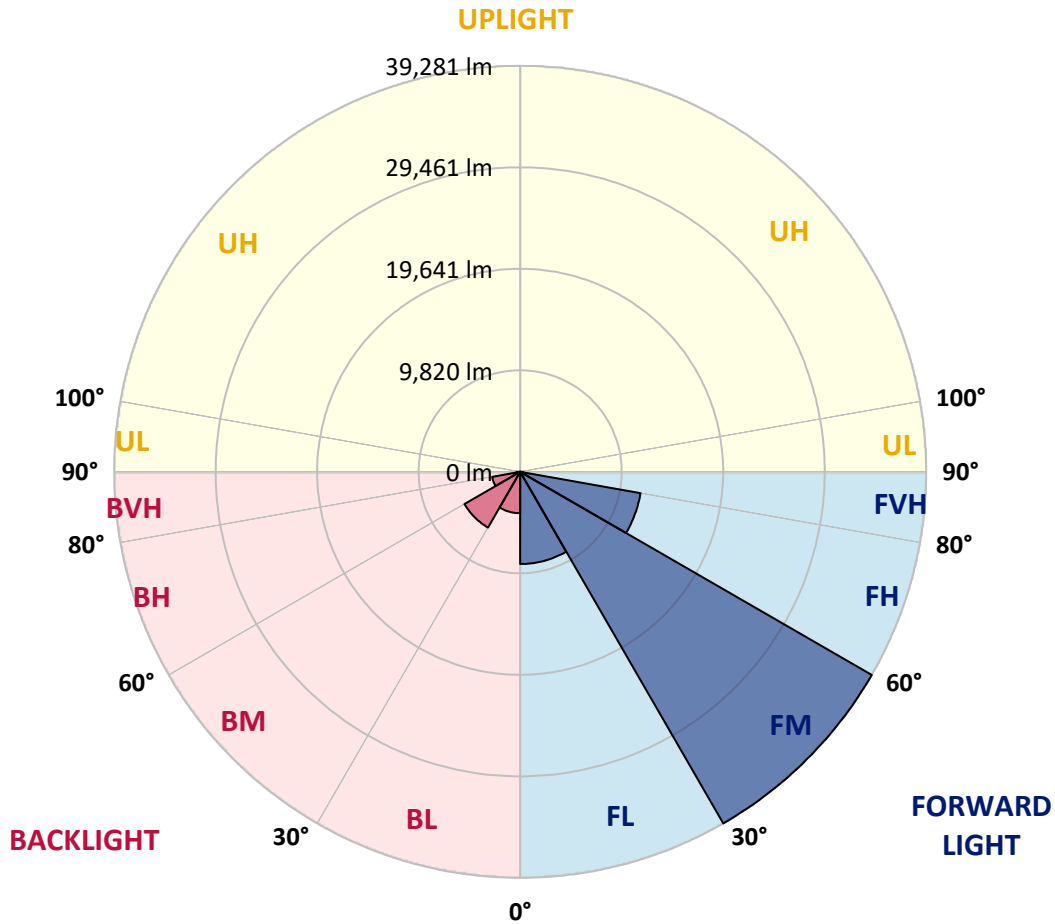


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8920.4	12.1			
FM (30°-60°)	39281.4	53.4			
FH (60°-80°)	11832.8	16.1			G4/12000
FVH (80°-90°)	248.6	0.3			G3/500
BL (0°-30°)	4002.9	5.4	B4/5000		
BM (30°-60°)	6224.6	8.5	B4/8500		
BH (60°-80°)	2750.4	3.7	B4/5000		G4/5000
BVH (80°-90°)	339.8	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18442.0	18442.0	18442.0	18442.0	18442.0	18442.0	18442.0	18442.0	18442.0	18442.0
2.5°	21158.7	21143.5	21227.2	20941.8	20747.7	20485.2	20139.0	19697.6	19222.0	18719.8
5°	23064.9	22931.7	23019.2	22806.2	22593.1	22197.4	21683.7	20964.6	20085.7	19085.0
7.5°	22764.3	22673.0	22897.5	23087.7	23247.5	23198.1	22821.4	22068.0	20934.2	19480.7
10°	20340.6	20237.9	20553.7	21211.9	22178.4	23019.2	23475.8	23007.8	21801.7	19914.5
12.5°	18202.3	18152.9	18362.1	18894.8	19967.8	21581.0	23392.1	23829.7	22703.4	20428.1
15°	17289.2	17228.3	17361.4	17631.6	18316.5	19819.4	22631.1	24392.8	23590.0	21021.7
17.5°	17087.5	17019.0	17076.1	17216.9	17658.2	18803.5	21482.1	24670.5	24514.5	21683.7
20°	17460.4	17403.3	17410.9	17403.3	17711.5	18620.8	20683.1	24564.0	25321.2	22292.5
22.5°	18362.1	18267.0	18270.8	18069.1	18236.6	18940.5	20473.8	24278.6	26040.3	22825.2
25°	19830.8	19659.6	19693.8	19180.2	19134.5	19655.8	20801.0	24058.0	26755.6	23251.3
27.5°	21839.7	21645.7	21543.0	20778.2	20412.9	20671.7	21466.9	24134.1	27432.8	23620.4
30°	24350.9	24115.0	23905.8	22821.4	22159.3	22064.2	22501.8	24636.3	28231.9	24008.5
32.5°	27429.0	27155.1	26774.6	25336.4	24404.2	23905.8	23841.1	25530.4	29167.8	24503.1
35°	31093.1	30735.4	30195.1	28334.6	27155.1	26135.4	25606.5	26820.3	30450.1	25248.9
37.5°	34867.5	34464.2	33969.5	31755.1	30305.5	28802.6	27760.1	28570.5	32158.4	26261.0
40°	38348.9	37896.1	37435.7	35464.8	33908.7	32097.6	30396.8	30784.9	34247.3	27470.9
42.5°	40403.5	40068.7	39893.7	38828.3	37626.0	35788.3	33676.6	33410.2	36594.9	28863.5
45°	40312.2	40175.2	40715.5	41156.9	40871.5	39851.8	37519.5	36313.3	38950.1	30069.6
47.5°	38158.7	38250.0	39456.1	41936.9	43028.8	43561.5	41895.0	39163.1	40997.1	30971.3
50°	32299.2	32375.3	35168.1	40517.7	43584.4	46586.4	46236.3	41944.5	42583.7	31523.0
52.5°	27661.1	27710.6	28909.1	36309.5	41750.4	48108.3	50147.7	44566.0	43744.2	31675.2
55°	20835.3	21006.5	22349.6	28486.8	36979.2	46902.2	52529.5	47267.4	44478.5	31690.4
57.5°	12171.7	12358.1	14017.0	19336.2	28741.7	42697.8	52891.0	49664.5	44976.9	31568.7
60°	5962.2	6042.1	6765.0	10162.7	17722.9	34597.3	49984.1	50824.9	45254.7	31504.0
62.5°	4017.9	4006.5	4036.9	5014.8	8732.1	22227.8	43926.8	48793.2	45106.3	31256.7
65°	3454.8	3412.9	3298.8	3519.5	4523.9	10166.5	33939.1	42728.3	43976.3	30636.5
67.5°	2986.8	2990.6	2994.4	2925.9	3230.3	4691.4	20740.1	33657.5	39920.3	27699.2
70°	2473.1	2507.4	2522.6	2522.6	2632.9	3078.1	8853.8	23068.7	31488.8	21718.0
72.5°	2252.5	2180.2	2187.8	2149.7	2149.7	2343.8	3565.1	13077.2	19838.4	12217.3
75°	1837.7	1883.4	1891.0	1864.4	1776.9	1788.3	2115.5	5486.6	8488.6	5068.0
77.5°	1586.6	1586.6	1601.8	1582.8	1514.3	1339.3	1411.6	2126.9	2887.9	2077.4
80°	1274.6	1270.8	1335.5	1373.5	1267.0	989.3	901.7	1175.7	1282.2	913.2
82.5°	620.2	658.2	917.0	1046.3	962.6	715.3	551.7	730.5	684.9	403.3
85°	361.5	342.4	410.9	582.1	551.7	395.7	266.3	380.5	357.7	205.5
87.5°	114.1	106.5	83.7	197.9	159.8	110.3	72.3	110.3	98.9	45.7
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
18442.0	0°	18442.0	18442.0	18442.0	18442.0	18442.0	18442.0	18442.0	18442.0	18442.0	18442.0
18502.9	2.5°	18232.8	17783.8	17338.6	16931.5	16684.2	16524.4	16364.6	16185.8	16117.3	16014.5
18552.4	5°	18050.1	17182.6	16410.2	15744.4	15139.4	14663.8	14184.4	13796.3	13621.3	13739.2
18708.4	7.5°	17943.6	16688.0	15497.1	14275.7	13100.0	12160.2	11342.2	10767.7	10508.9	10573.6
18860.6	10°	17848.5	16128.7	14313.8	12384.7	10695.4	9531.1	8694.0	8256.5	8092.9	8127.1
19066.0	12.5°	17761.0	15500.9	12887.0	10349.1	8553.3	7784.7	7545.0	7548.8	7579.2	7602.1
19393.2	15°	17745.7	14743.7	11292.7	8568.5	7396.6	7347.1	7605.9	7769.5	7857.0	7883.6
19667.2	17.5°	17722.9	13838.2	9668.1	7354.7	7115.0	7449.9	7689.6	7796.1	7864.6	7868.4
19933.5	20°	17631.6	12689.1	8169.0	6776.4	7054.2	7343.3	7491.7	7575.4	7632.5	7651.5
20135.2	22.5°	17350.0	11410.7	7000.9	6517.7	6810.6	7042.7	7217.8	7312.9	7347.1	7370.0
20173.2	25°	16844.0	9980.1	6194.3	6270.4	6472.0	6765.0	6905.8	6924.8	6913.4	6947.6
20078.1	27.5°	16182.0	8446.7	5692.0	5935.5	6194.3	6445.4	6521.5	6510.1	6487.2	6525.3
19914.5	30°	15382.9	7069.4	5372.4	5558.9	5912.7	6141.0	6209.5	6182.9	6137.2	6179.0
19830.8	32.5°	14538.3	5943.1	5109.9	5296.3	5680.6	5905.1	5973.6	5947.0	5912.7	5947.0
19925.9	35°	13750.7	5155.5	4866.4	5121.3	5498.0	5718.7	5806.2	5810.0	5810.0	5851.8
20177.0	37.5°	13027.7	4695.2	4664.7	5011.0	5372.4	5570.3	5695.8	5703.4	5539.8	5551.3
20603.2	40°	12358.1	4501.1	4573.4	4938.7	5250.7	5440.9	5448.5	5022.4	4721.8	4714.2
21090.2	42.5°	11810.2	4463.1	4600.0	4931.1	5163.2	5170.8	4634.3	4303.3	4219.6	4223.4
21539.2	45°	11296.5	4451.7	4660.9	4931.1	5033.8	4466.9	4105.4	4017.9	4025.5	4056.0
21740.8	47.5°	10722.0	4406.0	4672.3	4862.6	4660.9	3972.2	3865.7	3827.7	3812.4	3820.1
21695.2	50°	10094.2	4242.4	4527.8	4725.6	4021.7	3759.2	3626.0	3614.6	3633.6	3645.0
21440.2	52.5°	9432.2	3976.0	4280.4	4478.3	3728.7	3572.7	3424.3	3451.0	3534.7	3561.3
21173.9	55°	8998.4	3664.1	3953.2	3983.7	3523.3	3397.7	3272.2	3333.0	3489.0	3538.5
21014.1	57.5°	8884.3	3333.0	3580.3	3546.1	3260.7	3245.5	3169.4	3222.7	3420.5	3492.8
21006.5	60°	8850.0	3036.3	3215.1	3188.4	3005.8	3078.1	3059.1	3085.7	3154.2	3177.0
20930.4	62.5°	8583.7	2800.4	2887.9	2849.8	2777.5	2903.1	2948.7	2891.7	2944.9	2971.6
20409.1	65°	7906.4	2610.1	2568.3	2541.6	2572.1	2686.2	2777.5	2663.4	2712.8	2788.9
18400.2	67.5°	6787.8	2351.4	2237.2	2267.7	2362.8	2423.7	2541.6	2412.3	2454.1	2583.5
14819.8	70°	5490.4	2024.2	1921.4	2009.0	2100.3	2225.8	2244.9	2157.3	2256.3	2400.8
9044.1	72.5°	3884.7	1693.2	1620.9	1799.7	1830.1	1993.7	1951.9	1910.0	2047.0	2096.5
4470.7	75°	2693.8	1365.9	1324.1	1461.1	1571.4	1712.2	1681.7	1731.2	2020.4	2043.2
2233.4	77.5°	1704.6	1061.5	1034.9	1122.4	1274.6	1430.6	1480.1	2043.2	3451.0	3588.0
1160.5	80°	989.3	791.4	761.0	829.5	962.6	1107.2	1426.8	2507.4	2275.3	2248.7
521.3	82.5°	551.7	544.1	506.0	525.1	643.0	799.0	2016.6	1765.4	1434.4	1480.1
209.3	85°	258.7	319.6	273.9	262.5	361.5	936.0	1346.9	1008.3	669.7	654.4
45.7	87.5°	68.5	60.9	60.9	68.5	152.2	806.6	536.5	429.9	254.9	247.3
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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