

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: P957580

Luminaire Tested: **GALN-SB9D-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957580
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-SB9D-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57379 lumens
Efficiency: N/A
Efficacy: 87.2 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

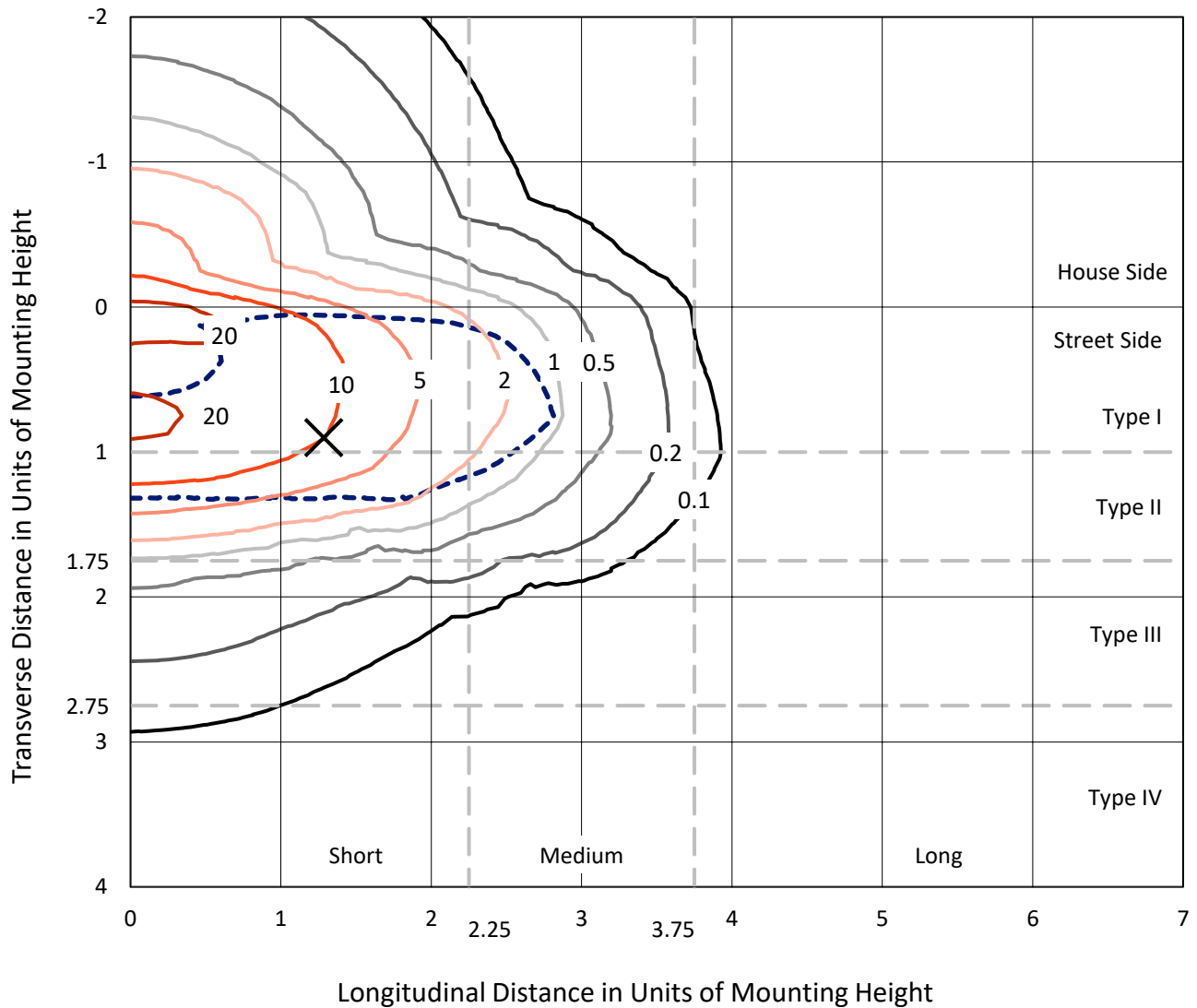
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

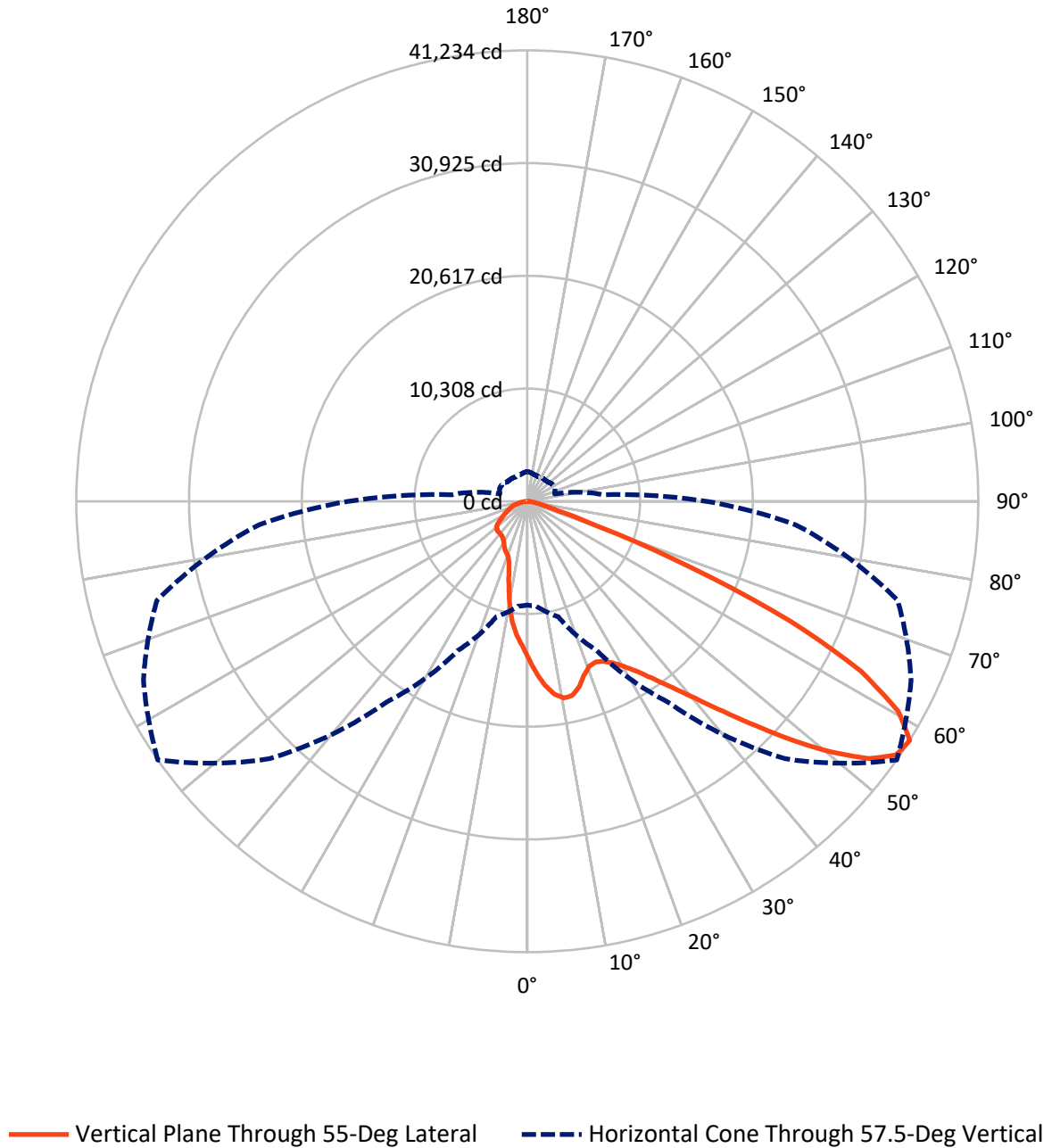
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10382.4	0.0	10382.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	46996.6	0.0	46996.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	57379.0	0.0	57379.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1334.1	2.3
10°-20°	3367.4	5.9
20°-30°	5373.4	9.4
30°-40°	8507.4	14.8
40°-50°	13021.5	22.7
50°-60°	13947.3	24.3
60°-70°	8774.3	15.3
70°-80°	2594.7	4.5
80°-90°	458.8	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°	57379.0	100.0
0°-180°	57379.0	100.0



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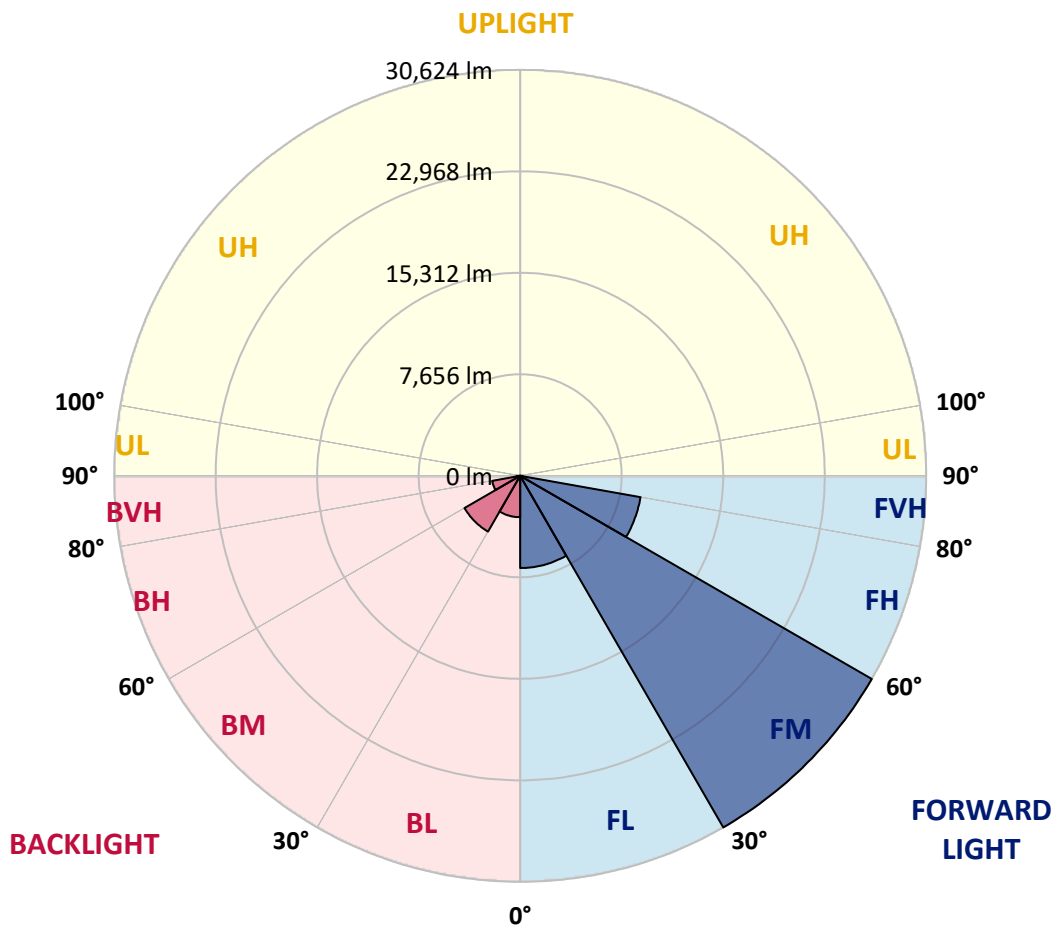
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6954.3	12.1			
FM (30°-60°)	30623.6	53.4			
FH (60°-80°)	9224.8	16.1			G4/12000
FVH (80°-90°)	193.8	0.3			G2/225
BL (0°-30°)	3120.6	5.4	B4/5000		
BM (30°-60°)	4852.7	8.5	B3/5000		
BH (60°-80°)	2144.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	264.9	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°	14377.3	14377.3	14377.3	14377.3	14377.3	14377.3	14377.3	14377.3	14377.3	14377.3
2.5°	16495.2	16483.3	16548.6	16326.1	16174.9	15970.2	15700.3	15356.2	14985.4	14593.8
5°	17981.3	17877.5	17945.7	17779.6	17613.5	17305.0	16904.5	16343.9	15658.7	14878.6
7.5°	17747.0	17675.8	17850.8	17999.1	18123.7	18085.1	17791.4	17204.1	16320.2	15187.1
10°	15857.5	15777.4	16023.6	16536.7	17290.2	17945.7	18301.6	17936.8	16996.5	15525.2
12.5°	14190.4	14151.9	14315.0	14730.3	15566.8	16824.5	18236.4	18577.5	17699.5	15925.7
15°	13478.5	13431.1	13534.9	13745.5	14279.4	15451.1	17643.1	19016.5	18390.6	16388.4
17.5°	13321.3	13267.9	13312.4	13422.2	13766.3	14659.1	16747.3	19233.0	19111.4	16904.5
20°	13612.0	13567.5	13573.5	13567.5	13807.8	14516.7	16124.4	19150.0	19740.3	17379.1
22.5°	14315.0	14240.9	14243.8	14086.6	14217.1	14765.9	15961.3	18927.5	20300.9	17794.4
25°	15460.0	15326.5	15353.2	14952.8	14917.2	15323.5	16216.4	18755.5	20858.5	18126.6
27.5°	17026.2	16874.9	16794.8	16198.6	15913.8	16115.5	16735.5	18814.8	21386.5	18414.4
30°	18983.9	18800.0	18636.8	17791.4	17275.3	17201.2	17542.3	19206.3	22009.4	18716.9
32.5°	21383.5	21170.0	20873.4	19752.1	19025.4	18636.8	18586.4	19903.4	22739.1	19102.5
35°	24240.0	23961.2	23540.0	22089.5	21170.0	20375.0	19962.7	20909.0	23738.7	19683.9
37.5°	27182.5	26868.1	26482.5	24756.2	23626.0	22454.4	21641.6	22273.4	25070.6	20472.9
40°	29896.6	29543.6	29184.7	27648.2	26435.0	25023.1	23697.2	23999.8	26699.0	21416.2
42.5°	31498.4	31237.4	31100.9	30270.4	29333.0	27900.4	26254.1	26046.5	28529.2	22501.8
45°	31427.2	31320.4	31741.6	32085.7	31863.2	31068.3	29250.0	28309.7	30365.3	23442.1
47.5°	29748.3	29819.5	30759.8	32693.8	33545.1	33960.4	32661.2	30531.4	31961.1	24145.1
50°	25180.3	25239.6	27416.9	31587.4	33978.2	36318.5	36045.6	32699.7	33198.0	24575.2
52.5°	21564.5	21603.1	22537.4	28306.7	32548.4	37505.0	39094.9	34743.4	34102.7	24693.9
55°	16243.1	16376.6	17423.6	22208.2	28828.8	36564.7	40951.8	36849.5	34675.2	24705.7
57.5°	9489.0	9634.3	10927.6	15074.4	22406.9	33287.0	41233.6	38718.2	35063.8	24610.8
60°	4648.1	4710.4	5274.0	7922.8	13816.7	26971.9	38967.4	39622.9	35280.3	24560.4
62.5°	3132.3	3123.4	3147.2	3909.5	6807.5	17328.7	34245.1	38038.9	35164.7	24367.6
65°	2693.3	2660.7	2571.7	2743.8	3526.8	7925.8	26458.8	33310.8	34283.7	23884.1
67.5°	2328.5	2331.5	2334.4	2281.0	2518.3	3657.4	16168.9	26239.3	31121.7	21594.2
70°	1928.0	1954.7	1966.6	1966.6	2052.6	2399.7	6902.4	17984.3	24548.5	16931.2
72.5°	1756.0	1699.6	1705.6	1675.9	1675.9	1827.2	2779.4	10194.9	15465.9	9524.6
75°	1432.7	1468.3	1474.2	1453.5	1385.2	1394.1	1649.2	4277.3	6617.7	3951.0
77.5°	1236.9	1236.9	1248.8	1234.0	1180.6	1044.1	1100.5	1658.1	2251.4	1619.6
80°	993.7	990.7	1041.1	1070.8	987.8	771.2	703.0	916.6	999.6	711.9
82.5°	483.5	513.2	714.9	815.7	750.5	557.7	430.1	569.5	533.9	314.4
85°	281.8	267.0	320.4	453.8	430.1	308.5	207.6	296.6	278.8	160.2
87.5°	89.0	83.1	65.3	154.2	124.6	86.0	56.4	86.0	77.1	35.6
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°
14377.3	0°	14377.3	14377.3	14377.3	14377.3	14377.3	14377.3	14377.3	14377.3	14377.3	14377.3
14424.8	2.5°	14214.2	13864.2	13517.1	13199.7	13006.9	12882.3	12757.8	12618.3	12564.9	12484.9
14463.3	5°	14071.8	13395.5	12793.3	12274.3	11802.6	11431.8	11058.1	10755.5	10619.1	10711.1
14585.0	7.5°	13988.7	13009.9	12081.5	11129.3	10212.7	9480.1	8842.3	8394.4	8192.7	8243.2
14703.6	10°	13914.6	12573.8	11159.0	9655.1	8338.1	7430.4	6777.8	6436.7	6309.2	6335.9
14863.8	12.5°	13846.4	12084.4	10046.6	8068.1	6668.1	6068.9	5882.0	5885.0	5908.7	5926.5
15118.9	15°	13834.5	11494.1	8803.8	6679.9	5766.4	5727.8	5929.5	6057.0	6125.3	6146.0
15332.4	17.5°	13816.7	10788.2	7537.2	5733.7	5546.8	5807.9	5994.8	6077.8	6131.2	6134.2
15540.1	20°	13745.5	9892.4	6368.5	5282.9	5499.4	5724.8	5840.5	5905.8	5950.3	5965.1
15697.3	22.5°	13526.0	8895.7	5457.9	5081.2	5309.6	5490.5	5626.9	5701.1	5727.8	5745.6
15726.9	25°	13131.5	7780.4	4829.0	4888.3	5045.6	5274.0	5383.7	5398.5	5389.6	5416.3
15652.8	27.5°	12615.4	6585.0	4437.5	4627.3	4829.0	5024.8	5084.1	5075.2	5057.4	5087.1
15525.2	30°	11992.5	5511.3	4188.3	4333.7	4609.5	4787.5	4840.9	4820.1	4784.5	4817.2
15460.0	32.5°	11334.0	4633.3	3983.6	4129.0	4428.6	4603.6	4657.0	4636.2	4609.5	4636.2
15534.1	35°	10720.0	4019.2	3793.8	3992.5	4286.2	4458.2	4526.5	4529.4	4529.4	4562.1
15729.9	37.5°	10156.4	3660.3	3636.6	3906.5	4188.3	4342.6	4440.4	4446.4	4318.8	4327.7
16062.1	40°	9634.3	3509.0	3565.4	3850.2	4093.4	4241.7	4247.6	3915.4	3681.1	3675.2
16441.8	42.5°	9207.2	3479.4	3586.2	3844.2	4025.2	4031.1	3612.9	3354.8	3289.5	3292.5
16791.8	45°	8806.7	3470.5	3633.6	3844.2	3924.3	3482.4	3200.6	3132.3	3138.3	3162.0
16949.0	47.5°	8358.8	3434.9	3642.5	3790.8	3633.6	3096.7	3013.7	2984.0	2972.2	2978.1
16913.4	50°	7869.4	3307.3	3529.8	3684.1	3135.3	2930.6	2826.8	2817.9	2832.7	2841.6
16714.7	52.5°	7353.3	3099.7	3337.0	3491.3	2906.9	2785.3	2669.6	2690.4	2755.6	2776.4
16507.1	55°	7015.1	2856.5	3081.9	3105.6	2746.7	2648.8	2551.0	2598.4	2720.0	2758.6
16382.5	57.5°	6926.1	2598.4	2791.2	2764.5	2542.1	2530.2	2470.9	2512.4	2666.6	2723.0
16376.6	60°	6899.5	2367.1	2506.5	2485.7	2343.3	2399.7	2384.8	2405.6	2459.0	2476.8
16317.2	62.5°	6691.8	2183.1	2251.4	2221.7	2165.3	2263.2	2298.8	2254.3	2295.9	2316.6
15910.9	65°	6163.8	2034.8	2002.2	1981.4	2005.2	2094.2	2165.3	2076.4	2114.9	2174.2
14344.7	67.5°	5291.8	1833.1	1744.1	1767.9	1842.0	1889.5	1981.4	1880.6	1913.2	2014.1
11553.5	70°	4280.3	1578.0	1497.9	1566.2	1637.4	1735.2	1750.1	1681.9	1759.0	1871.7
7050.7	72.5°	3028.5	1320.0	1263.6	1403.0	1426.8	1554.3	1521.7	1489.0	1595.8	1634.4
3485.3	75°	2100.1	1064.9	1032.2	1139.0	1225.1	1334.8	1311.1	1349.6	1575.1	1592.9
1741.2	77.5°	1328.9	827.6	806.8	875.0	993.7	1115.3	1153.9	1592.9	2690.4	2797.2
904.7	80°	771.2	617.0	593.2	646.6	750.5	863.2	1112.3	1954.7	1773.8	1753.0
406.4	82.5°	430.1	424.2	394.5	409.3	501.3	622.9	1572.1	1376.3	1118.3	1153.9
163.1	85°	201.7	249.2	213.6	204.7	281.8	729.7	1050.0	786.1	522.1	510.2
35.6	87.5°	53.4	47.5	47.5	53.4	118.6	628.8	418.2	335.2	198.7	192.8
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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