

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: P953905

Luminaire Tested: **GALN-SB7B-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953905
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-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35416 lumens
Efficiency: N/A
Efficacy: 138.0 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

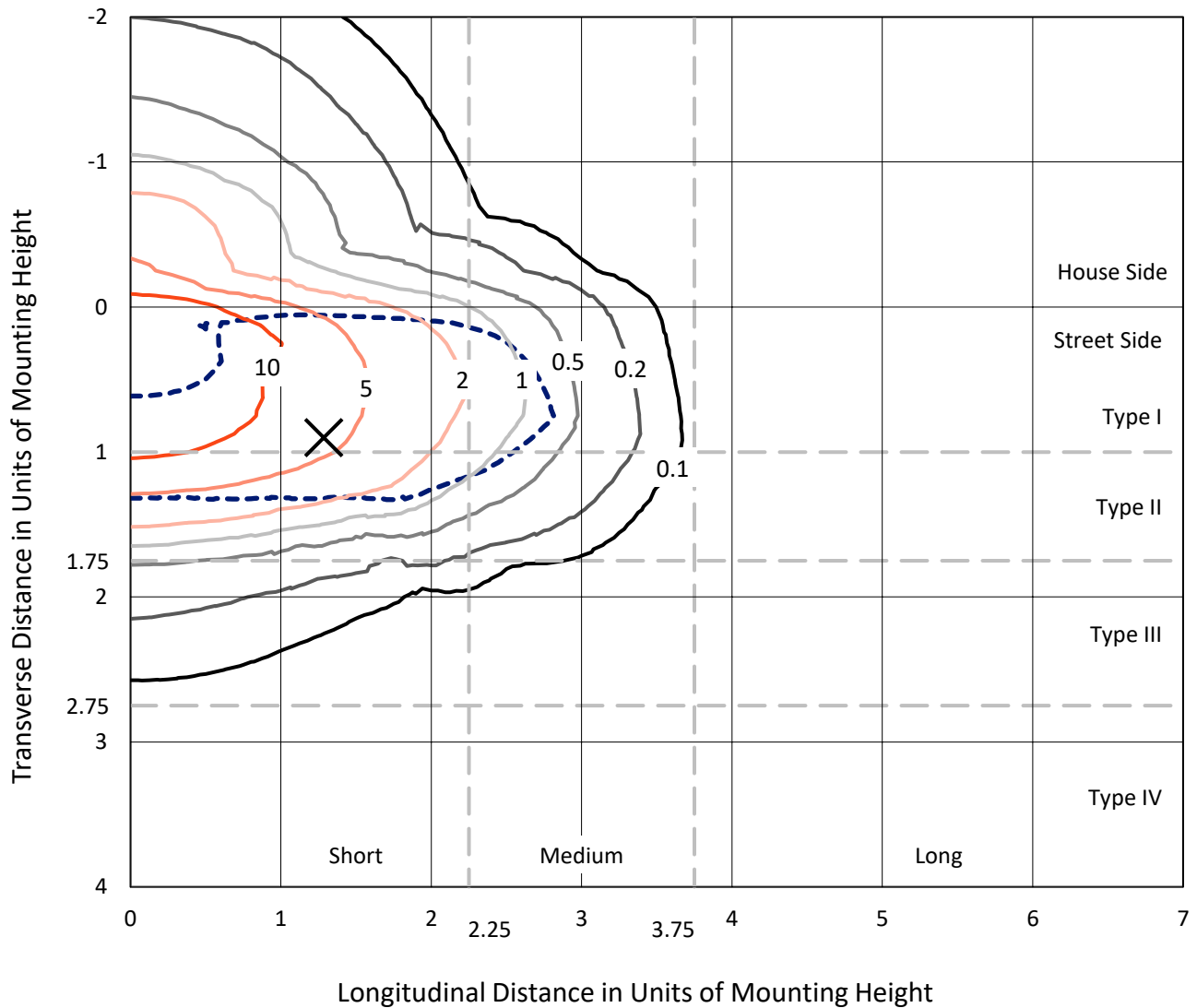
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

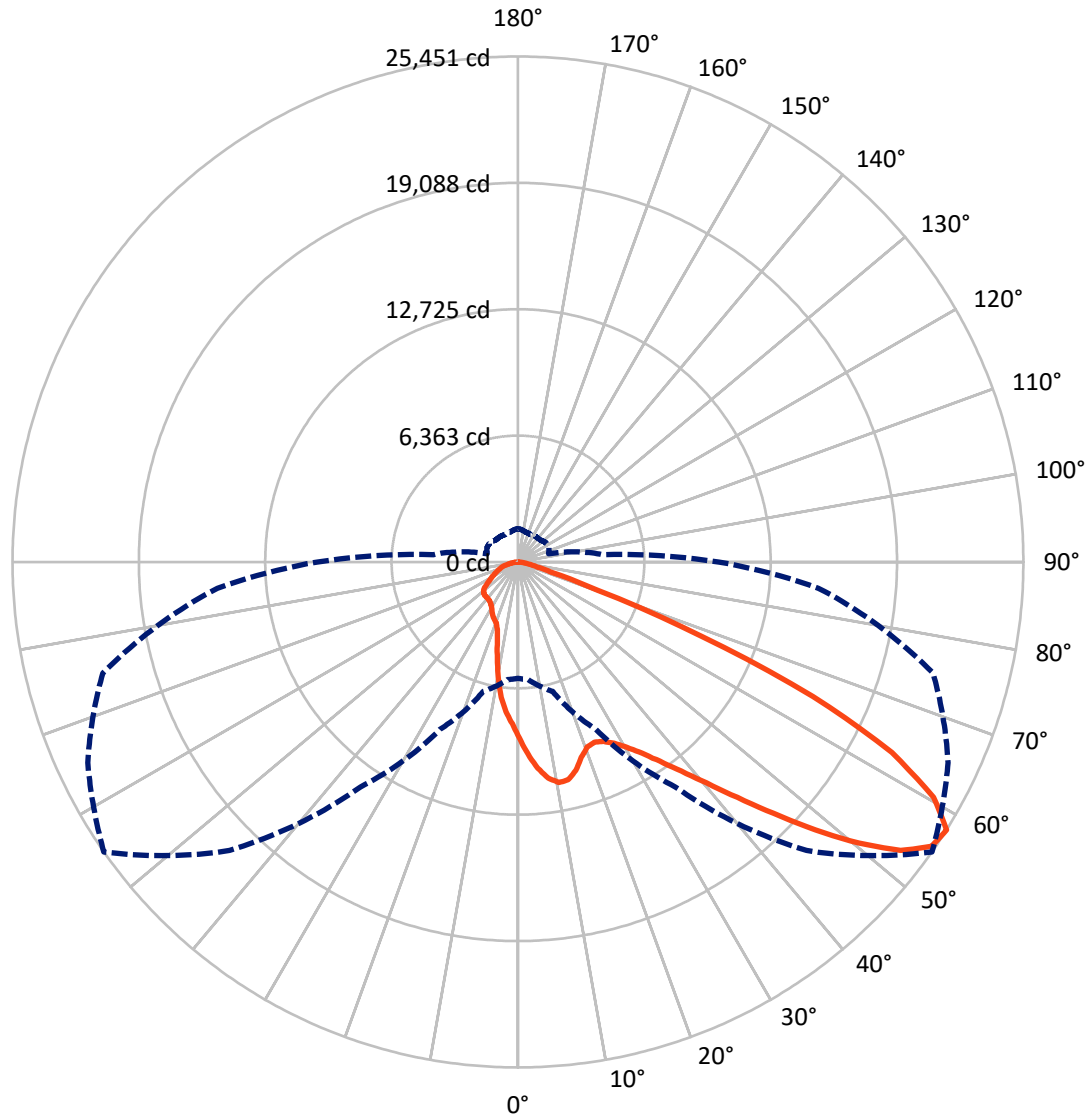
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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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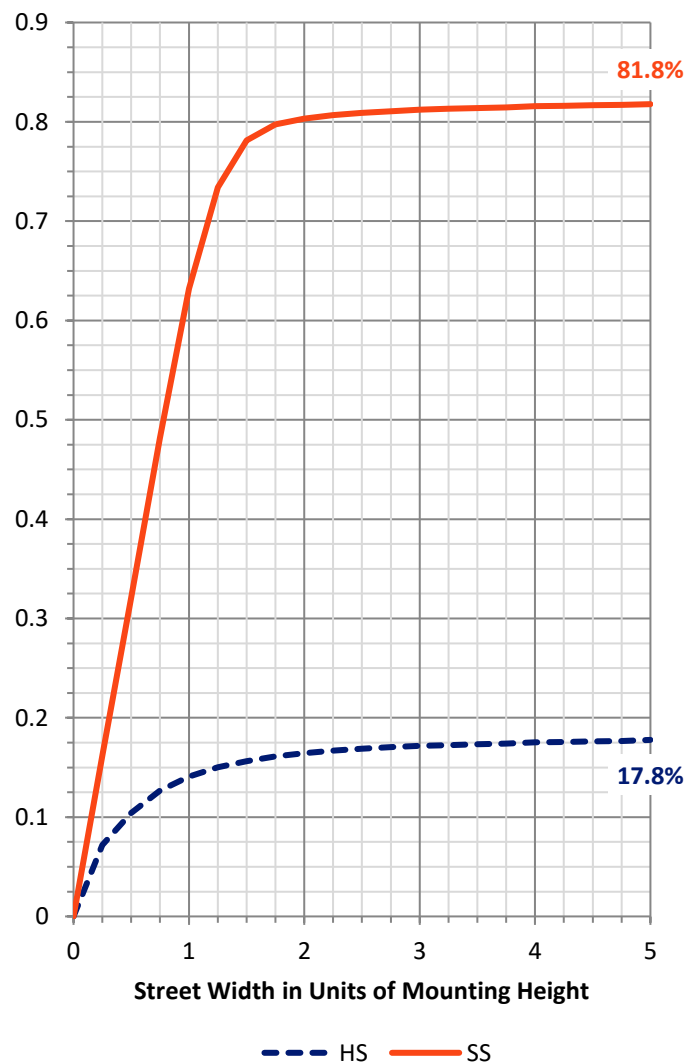
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6408.3	0.0	6408.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	29007.6	0.0	29007.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	35416.0	0.0	35416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.5	2.3
10°-20°	2078.5	5.9
20°-30°	3316.6	9.4
30°-40°	5251.1	14.8
40°-50°	8037.3	22.7
50°-60°	8608.7	24.3
60°-70°	5415.8	15.3
70°-80°	1601.5	4.5
80°-90°	283.2	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°	35416.0	100.0
0°-180°	35416.0	100.0

Coefficient of Utilization



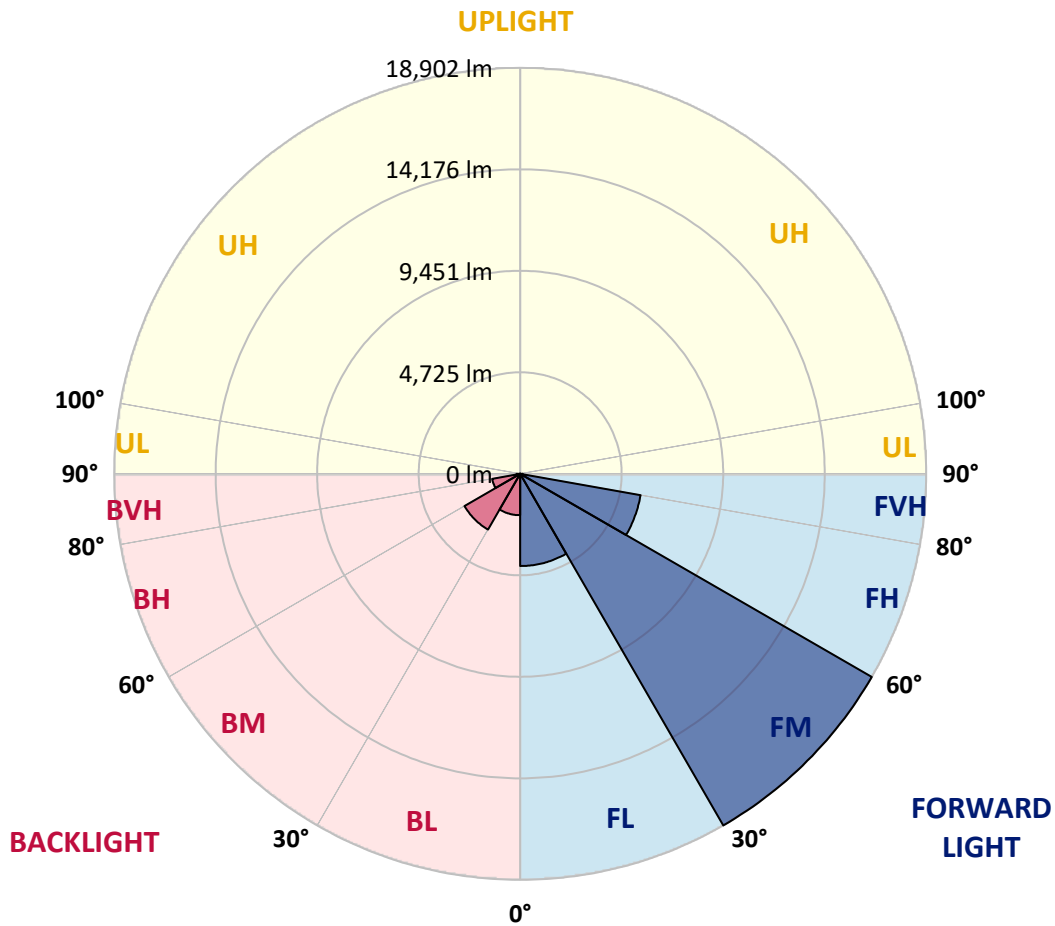
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4292.4	12.1			
FM (30°-60°)	18901.8	53.4			
FH (60°-80°)	5693.8	16.1			G3/7500
FVH (80°-90°)	119.6	0.3			G2/225
BL (0°-30°)	1926.1	5.4	B3/2500		
BM (30°-60°)	2995.2	8.5	B3/5000		
BH (60°-80°)	1323.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	163.5	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°	8874.1	8874.1	8874.1	8874.1	8874.1	8874.1	8874.1	8874.1	8874.1	8874.1
2.5°	10181.3	10174.0	10214.3	10077.0	9983.6	9857.3	9690.7	9478.3	9249.4	9007.8
5°	11098.6	11034.5	11076.6	10974.1	10871.6	10681.1	10434.0	10087.9	9665.0	9183.5
7.5°	10953.9	10910.0	11018.0	11109.6	11186.5	11162.7	10981.4	10618.9	10073.3	9373.9
10°	9787.7	9738.3	9890.2	10207.0	10672.0	11076.6	11296.3	11071.1	10490.7	9582.6
12.5°	8758.8	8735.0	8835.7	9092.0	9608.3	10384.5	11256.0	11466.6	10924.6	9829.8
15°	8319.4	8290.1	8354.1	8484.1	8813.7	9536.9	10889.9	11737.5	11351.2	10115.4
17.5°	8222.3	8189.4	8216.8	8284.6	8496.9	9048.0	10336.9	11871.2	11796.1	10434.0
20°	8401.7	8374.3	8377.9	8374.3	8522.6	8960.1	9952.5	11819.9	12184.3	10726.9
22.5°	8835.7	8789.9	8791.7	8694.7	8775.2	9113.9	9851.8	11682.6	12530.3	10983.2
25°	9542.4	9460.0	9476.4	9229.3	9207.3	9458.1	10009.2	11576.4	12874.5	11188.3
27.5°	10509.0	10415.7	10366.2	9998.2	9822.5	9947.0	10329.6	11613.0	13200.4	11365.9
30°	11717.4	11603.9	11503.2	10981.4	10662.8	10617.1	10827.6	11854.7	13584.9	11552.6
32.5°	13198.6	13066.7	12883.6	12191.6	11743.0	11503.2	11472.1	12285.0	14035.2	11790.6
35°	14961.7	14789.6	14529.6	13634.3	13066.7	12576.1	12321.6	12905.6	14652.2	12149.5
37.5°	16777.9	16583.8	16345.8	15280.2	14582.7	13859.5	13357.8	13747.8	15474.3	12636.5
40°	18453.1	18235.2	18013.7	17065.3	16316.5	15445.0	14626.6	14813.4	16479.4	13218.7
42.5°	19441.7	19280.6	19196.4	18683.8	18105.2	17220.9	16204.8	16076.6	17609.1	13888.8
45°	19397.8	19331.9	19591.9	19804.2	19666.9	19176.3	18054.0	17473.6	18742.3	14469.2
47.5°	18361.5	18405.5	18985.9	20179.6	20705.0	20961.3	20159.4	18844.9	19727.3	14903.1
50°	15542.0	15578.7	16922.5	19496.7	20972.3	22416.9	22248.4	20183.2	20490.8	15168.5
52.5°	13310.2	13334.0	13910.8	17471.7	20089.8	23149.2	24130.5	21444.7	21049.2	15241.8
55°	10025.7	10108.1	10754.4	13707.5	17794.0	22568.8	25276.6	22744.6	21402.6	15249.1
57.5°	5856.9	5946.6	6744.8	9304.3	13830.2	20545.7	25450.6	23898.0	21642.4	15190.5
60°	2868.9	2907.4	3255.2	4890.2	8528.1	16647.9	24051.8	24456.4	21776.1	15159.4
62.5°	1933.4	1927.9	1942.5	2413.1	4201.8	10695.8	21137.1	23478.7	21704.7	15040.4
65°	1662.4	1642.3	1587.3	1693.5	2176.9	4892.0	16331.1	20560.4	21160.9	14742.0
67.5°	1437.2	1439.0	1440.9	1407.9	1554.4	2257.4	9979.9	16195.6	19209.2	13328.5
70°	1190.0	1206.5	1213.8	1213.8	1266.9	1481.2	4260.4	11100.4	15152.1	10450.5
72.5°	1083.9	1049.1	1052.7	1034.4	1034.4	1127.8	1715.5	6292.6	9546.0	5878.8
75°	884.3	906.3	909.9	897.1	855.0	860.5	1017.9	2640.1	4084.6	2438.7
77.5°	763.5	763.5	770.8	761.6	728.7	644.5	679.2	1023.4	1389.6	999.6
80°	613.3	611.5	642.6	660.9	609.7	476.0	433.9	565.7	617.0	439.4
82.5°	298.4	316.7	441.2	503.5	463.2	344.2	265.5	351.5	329.6	194.1
85°	173.9	164.8	197.7	280.1	265.5	190.4	128.2	183.1	172.1	98.9
87.5°	54.9	51.3	40.3	95.2	76.9	53.1	34.8	53.1	47.6	22.0
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°
8874.1	0°	8874.1	8874.1	8874.1	8874.1	8874.1	8874.1	8874.1	8874.1	8874.1	8874.1
8903.4	2.5°	8773.4	8557.4	8343.2	8147.3	8028.3	7951.4	7874.5	7788.4	7755.5	7706.0
8927.2	5°	8685.5	8268.1	7896.4	7576.0	7284.9	7056.1	6825.4	6638.6	6554.4	6611.2
9002.3	7.5°	8634.3	8030.1	7457.0	6869.3	6303.6	5851.4	5457.7	5181.3	5056.8	5087.9
9075.5	10°	8588.5	7760.9	6887.6	5959.4	5146.5	4586.3	4183.5	3972.9	3894.2	3910.7
9174.4	12.5°	8546.4	7458.9	6201.1	4979.9	4115.7	3745.9	3630.6	3632.4	3647.0	3658.0
9331.8	15°	8539.1	7094.5	5433.9	4123.1	3559.2	3535.4	3659.9	3738.6	3780.7	3793.5
9463.6	17.5°	8528.1	6658.8	4652.2	3539.0	3423.7	3584.8	3700.1	3751.4	3784.4	3786.2
9591.8	20°	8484.1	6105.9	3930.8	3260.7	3394.4	3533.5	3604.9	3645.2	3672.7	3681.8
9688.8	22.5°	8348.6	5490.7	3368.8	3136.2	3277.2	3388.9	3473.1	3518.9	3535.4	3546.3
9707.1	25°	8105.1	4802.3	2980.6	3017.2	3114.3	3255.2	3323.0	3332.1	3326.6	3343.1
9661.4	27.5°	7786.6	4064.5	2738.9	2856.1	2980.6	3101.4	3138.1	3132.6	3121.6	3139.9
9582.6	30°	7402.1	3401.7	2585.2	2674.9	2845.1	2955.0	2987.9	2975.1	2953.2	2973.3
9542.4	32.5°	6995.7	2859.8	2458.8	2548.5	2733.4	2841.5	2874.4	2861.6	2845.1	2861.6
9588.1	35°	6616.7	2480.8	2341.6	2464.3	2645.6	2751.8	2793.9	2795.7	2795.7	2815.8
9709.0	37.5°	6268.8	2259.3	2244.6	2411.2	2585.2	2680.4	2740.8	2744.4	2665.7	2671.2
9914.0	40°	5946.6	2165.9	2200.7	2376.4	2526.6	2618.1	2621.8	2416.7	2272.1	2268.4
10148.4	42.5°	5682.9	2147.6	2213.5	2372.8	2484.5	2488.1	2230.0	2070.7	2030.4	2032.2
10364.4	45°	5435.8	2142.1	2242.8	2372.8	2422.2	2149.4	1975.5	1933.4	1937.0	1951.7
10461.4	47.5°	5159.3	2120.1	2248.3	2339.8	2242.8	1911.4	1860.1	1841.8	1834.5	1838.2
10439.5	50°	4857.2	2041.4	2178.7	2273.9	1935.2	1808.9	1744.8	1739.3	1748.5	1753.9
10316.8	52.5°	4538.7	1913.2	2059.7	2154.9	1794.2	1719.2	1647.8	1660.6	1700.9	1713.7
10188.6	55°	4329.9	1763.1	1902.2	1916.9	1695.4	1634.9	1574.5	1603.8	1678.9	1702.7
10111.8	57.5°	4275.0	1603.8	1722.8	1706.3	1569.0	1561.7	1525.1	1550.7	1645.9	1680.7
10108.1	60°	4258.5	1461.0	1547.1	1534.2	1446.4	1481.2	1472.0	1484.8	1517.8	1528.8
10071.5	62.5°	4130.4	1347.5	1389.6	1371.3	1336.5	1396.9	1418.9	1391.4	1417.1	1429.9
9820.6	65°	3804.5	1256.0	1235.8	1223.0	1237.7	1292.6	1336.5	1281.6	1305.4	1342.0
8854.0	67.5°	3266.2	1131.5	1076.5	1091.2	1137.0	1166.2	1223.0	1160.8	1180.9	1243.1
7131.1	70°	2641.9	974.0	924.6	966.7	1010.6	1071.0	1080.2	1038.1	1085.7	1155.3
4351.9	72.5°	1869.3	814.7	779.9	866.0	880.6	959.4	939.2	919.1	985.0	1008.8
2151.2	75°	1296.2	657.3	637.1	703.0	756.1	823.9	809.2	833.0	972.2	983.2
1074.7	77.5°	820.2	510.8	498.0	540.1	613.3	688.4	712.2	983.2	1660.6	1726.5
558.4	80°	476.0	380.8	366.2	399.1	463.2	532.8	686.6	1206.5	1094.8	1082.0
250.8	82.5°	265.5	261.8	243.5	252.7	309.4	384.5	970.3	849.5	690.2	712.2
100.7	85°	124.5	153.8	131.8	126.3	173.9	450.4	648.1	485.2	322.2	314.9
22.0	87.5°	33.0	29.3	29.3	33.0	73.2	388.1	258.1	206.9	122.7	119.0
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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