

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: P955774

Luminaire Tested: **GALN-SB8C-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955774
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-SB8C-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58911 lumens
Efficiency: N/A
Efficacy: 147.4 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

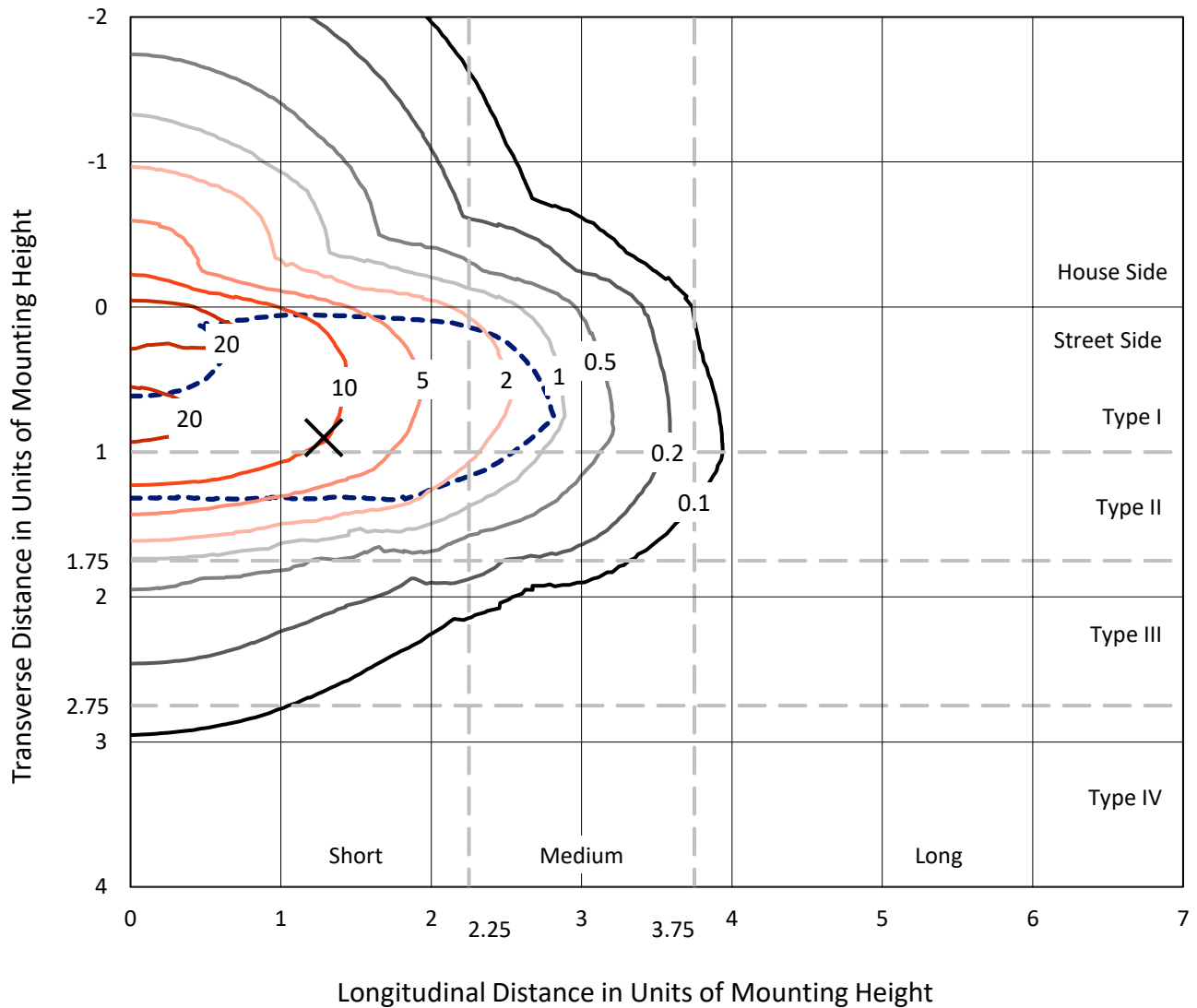
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

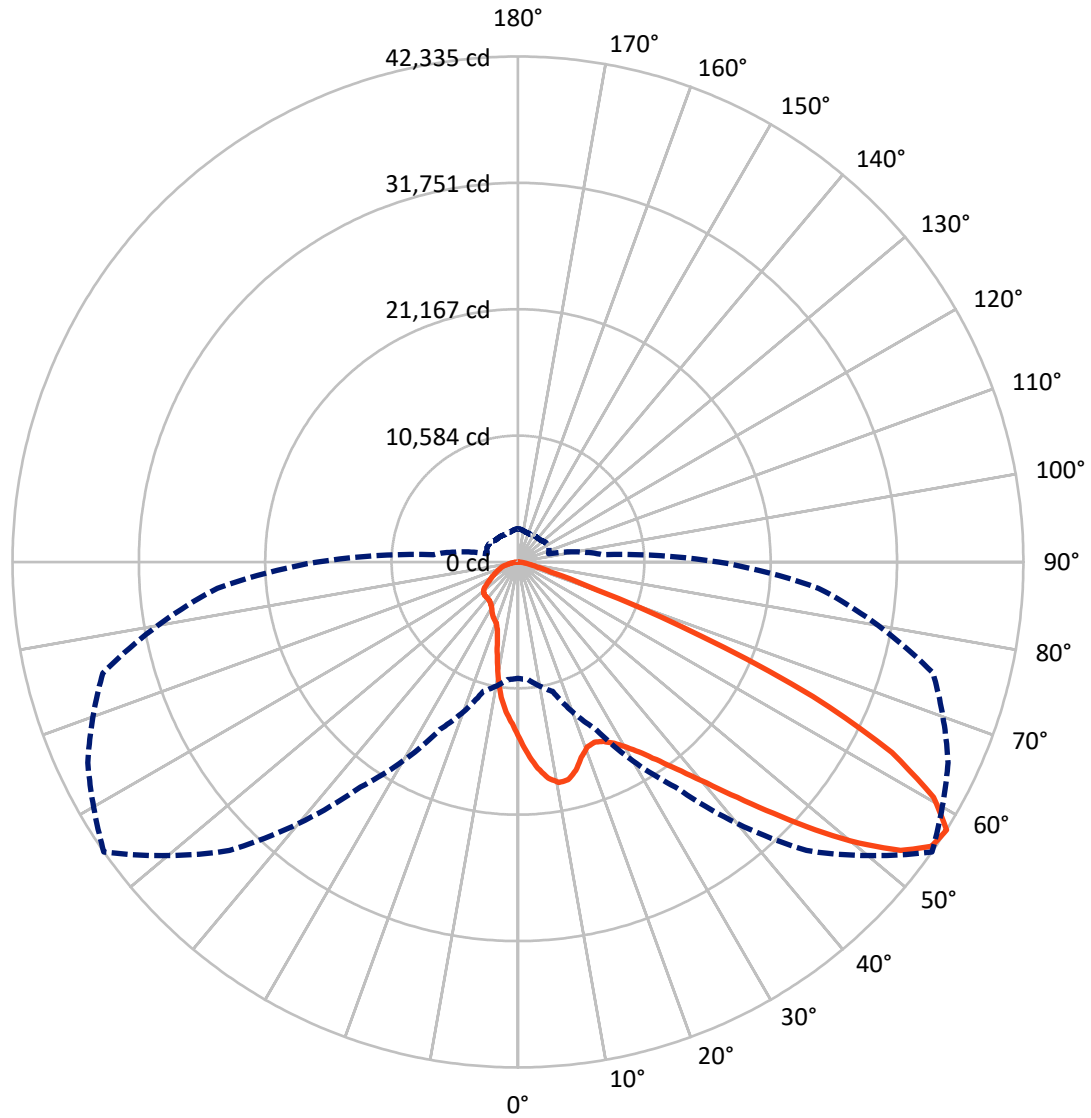
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.5 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	10659.7	0.0	10659.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	48251.4	0.0	48251.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	58911.0	0.0	58911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1369.7	2.3
10°-20°	3457.3	5.9
20°-30°	5516.9	9.4
30°-40°	8734.6	14.8
40°-50°	13369.2	22.7
50°-60°	14319.7	24.3
60°-70°	9008.6	15.3
70°-80°	2664.0	4.5
80°-90°	471.0	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°	58911.0	100.0
0°-180°	58911.0	100.0

Coefficient of Utilization



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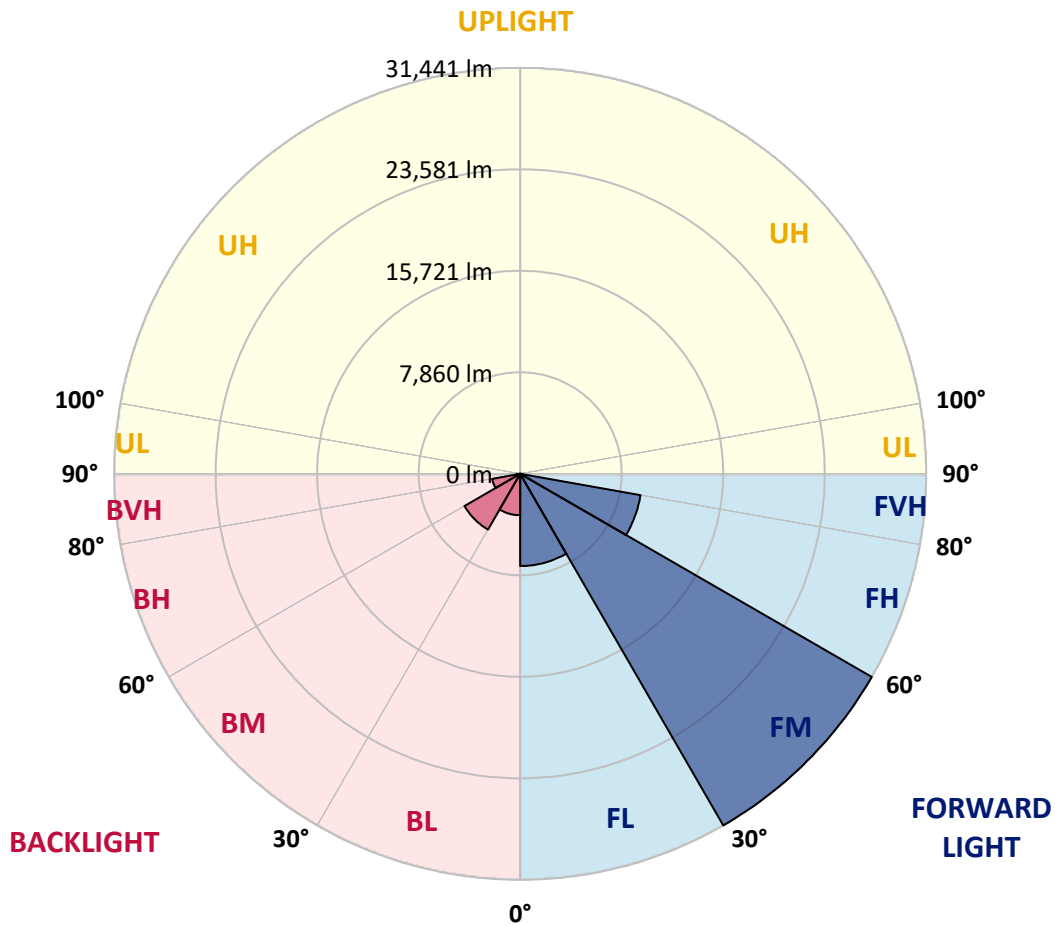
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7140.0	12.1			
FM (30°-60°)	31441.2	53.4			
FH (60°-80°)	9471.1	16.1			G4/12000
FVH (80°-90°)	199.0	0.3			G2/225
BL (0°-30°)	3203.9	5.4	B4/5000		
BM (30°-60°)	4982.2	8.5	B3/5000		
BH (60°-80°)	2201.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	272.0	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°	14761.2	14761.2	14761.2	14761.2	14761.2	14761.2	14761.2	14761.2	14761.2	14761.2
2.5°	16935.6	16923.4	16990.4	16762.0	16606.7	16396.6	16119.4	15766.2	15385.5	14983.5
5°	18461.4	18354.8	18424.8	18254.3	18083.7	17767.0	17355.9	16780.3	16076.8	15275.9
7.5°	18220.8	18147.7	18327.4	18479.7	18607.6	18568.0	18266.5	17663.5	16755.9	15592.6
10°	16280.9	16198.6	16451.4	16978.3	17751.8	18424.8	18790.3	18415.7	17450.3	15939.8
12.5°	14569.3	14529.7	14697.2	15123.6	15982.4	17273.7	18723.3	19073.5	18172.1	16350.9
15°	13838.4	13789.7	13896.3	14112.5	14660.7	15863.6	18114.2	19524.2	18881.6	16826.0
17.5°	13677.0	13622.2	13667.9	13780.6	14133.8	15050.5	17194.5	19746.5	19621.7	17355.9
20°	13975.5	13929.8	13935.9	13929.8	14176.5	14904.3	16554.9	19661.3	20267.3	17843.2
22.5°	14697.2	14621.1	14624.1	14462.7	14596.7	15160.1	16387.4	19432.9	20842.9	18269.5
25°	15872.8	15735.7	15763.1	15352.0	15315.5	15732.7	16649.3	19256.2	21415.4	18610.6
27.5°	17480.8	17325.4	17243.2	16631.1	16338.7	16545.8	17182.3	19317.1	21957.5	18906.0
30°	19490.7	19301.9	19134.4	18266.5	17736.6	17660.4	18010.7	19719.1	22597.1	19216.6
32.5°	21954.5	21735.2	21430.7	20279.5	19533.4	19134.4	19082.6	20434.8	23346.2	19612.5
35°	24887.2	24601.0	24168.5	22679.3	21735.2	20919.0	20495.7	21467.2	24372.6	20209.5
37.5°	27908.3	27585.5	27189.6	25417.1	24256.8	23053.9	22219.4	22868.1	25739.9	21019.5
40°	30694.9	30332.5	29964.0	28386.4	27140.8	25691.2	24329.9	24640.5	27411.9	21988.0
42.5°	32339.4	32071.4	31931.3	31078.6	30116.2	28645.3	26955.1	26741.9	29290.9	23102.6
45°	32266.3	32156.7	32589.1	32942.4	32714.0	31897.8	30031.0	29065.6	31176.0	24068.0
47.5°	30542.6	30615.7	31581.1	33566.7	34440.7	34867.1	33533.2	31346.6	32814.5	24789.8
50°	25852.6	25913.5	28148.9	32430.8	34885.4	37288.2	37008.0	33572.8	34084.4	25231.4
52.5°	22140.3	22179.8	23139.2	29062.5	33417.5	38506.4	40138.7	35671.1	35013.3	25353.2
55°	16676.8	16813.8	17888.8	22801.1	29598.5	37541.0	42045.2	37833.3	35601.0	25365.4
57.5°	9742.3	9891.5	11219.4	15476.9	23005.2	34175.8	42334.5	39752.0	36000.0	25267.9
60°	4772.2	4836.1	5414.8	8134.3	14185.6	27692.1	40007.8	40680.8	36222.3	25216.1
62.5°	3216.0	3206.8	3231.2	4013.9	6989.3	17791.4	35159.5	39054.6	36103.5	25018.2
65°	2765.2	2731.7	2640.4	2817.0	3621.0	8137.4	27165.2	34200.1	35199.0	24521.8
67.5°	2390.7	2393.7	2396.8	2341.9	2585.6	3755.0	16600.6	26939.8	31952.6	22170.7
70°	1979.5	2006.9	2019.1	2019.1	2107.4	2463.8	7086.7	18464.4	25204.0	17383.3
72.5°	1802.9	1745.0	1751.1	1720.7	1720.7	1876.0	2853.6	10467.1	15878.9	9778.9
75°	1470.9	1507.5	1513.6	1492.3	1422.2	1431.4	1693.3	4391.5	6794.3	4056.5
77.5°	1269.9	1269.9	1282.1	1266.9	1212.1	1072.0	1129.9	1702.4	2311.5	1662.8
80°	1020.2	1017.2	1068.9	1099.4	1014.1	791.8	721.8	941.0	1026.3	730.9
82.5°	496.4	526.9	733.9	837.5	770.5	572.5	441.6	584.7	548.2	322.8
85°	289.3	274.1	328.9	466.0	441.6	316.7	213.2	304.5	286.3	164.5
87.5°	91.4	85.3	67.0	158.4	127.9	88.3	57.9	88.3	79.2	36.5
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°
14761.2	0°	14761.2	14761.2	14761.2	14761.2	14761.2	14761.2	14761.2	14761.2	14761.2	14761.2
14809.9	2.5°	14593.7	14234.3	13878.0	13552.1	13354.2	13226.3	13098.4	12955.2	12900.4	12818.2
14849.5	5°	14447.5	13753.1	13134.9	12602.0	12117.8	11737.1	11353.4	11042.7	10902.6	10997.0
14974.4	7.5°	14362.2	13357.2	12404.0	11426.4	10485.4	9733.2	9078.4	8618.6	8411.5	8463.2
15096.2	10°	14286.1	12909.6	11456.9	9912.9	8560.7	7628.8	6958.8	6608.6	6477.6	6505.0
15260.6	12.5°	14216.1	12407.1	10314.9	8283.6	6846.1	6230.9	6039.1	6042.1	6066.5	6084.8
15522.5	15°	14203.9	11801.0	9038.8	6858.3	5920.3	5880.7	6087.8	6218.8	6288.8	6310.1
15741.8	17.5°	14185.6	11076.2	7738.4	5886.8	5694.9	5962.9	6154.8	6240.1	6294.9	6297.9
15955.0	20°	14112.5	10156.5	6538.5	5423.9	5646.2	5877.7	5996.4	6063.4	6109.1	6124.4
16116.4	22.5°	13887.1	9133.2	5603.6	5216.8	5451.3	5637.1	5777.2	5853.3	5880.7	5899.0
16146.9	25°	13482.1	7988.2	4958.0	5018.9	5180.3	5414.8	5527.4	5542.7	5533.5	5560.9
16070.7	27.5°	12952.2	6760.8	4556.0	4750.9	4958.0	5159.0	5219.9	5210.7	5192.5	5222.9
15939.8	30°	12312.7	5658.4	4300.1	4449.4	4732.6	4915.3	4970.1	4948.8	4912.3	4945.8
15872.8	32.5°	11636.6	4757.0	4090.0	4239.2	4546.8	4726.5	4781.3	4760.0	4732.6	4760.0
15948.9	35°	11006.2	4126.6	3895.1	4099.1	4400.6	4577.3	4647.3	4650.4	4650.4	4683.9
16149.9	37.5°	10427.5	3758.1	3733.7	4010.8	4300.1	4458.5	4559.0	4565.1	4434.1	4443.3
16491.0	40°	9891.5	3602.7	3660.6	3953.0	4202.7	4355.0	4361.1	4020.0	3779.4	3773.3
16880.8	42.5°	9453.0	3572.3	3681.9	3946.9	4132.6	4138.7	3709.3	3444.4	3377.4	3380.4
17240.2	45°	9041.9	3563.1	3730.6	3946.9	4029.1	3575.3	3286.0	3216.0	3222.1	3246.4
17401.6	47.5°	8582.0	3526.6	3739.8	3892.1	3730.6	3179.4	3094.2	3063.7	3051.5	3057.6
17365.0	50°	8079.5	3395.7	3624.1	3782.4	3219.0	3008.9	2902.3	2893.2	2908.4	2917.5
17161.0	52.5°	7549.6	3182.5	3426.1	3584.5	2984.5	2859.7	2740.9	2762.2	2829.2	2850.5
16947.8	55°	7202.4	2932.7	3164.2	3188.6	2820.1	2719.6	2619.1	2667.8	2792.7	2832.2
16819.9	57.5°	7111.1	2667.8	2865.7	2838.3	2609.9	2597.7	2536.8	2579.5	2737.8	2795.7
16813.8	60°	7083.7	2430.3	2573.4	2552.1	2405.9	2463.8	2448.5	2469.8	2524.7	2542.9
16752.9	62.5°	6870.5	2241.4	2311.5	2281.0	2223.2	2323.7	2360.2	2314.5	2357.2	2378.5
16335.7	65°	6328.4	2089.2	2055.7	2034.3	2058.7	2150.1	2223.2	2131.8	2171.4	2232.3
14727.7	67.5°	5433.0	1882.1	1790.7	1815.1	1891.2	1939.9	2034.3	1930.8	1964.3	2067.8
11861.9	70°	4394.6	1620.2	1537.9	1608.0	1681.1	1781.6	1796.8	1726.8	1805.9	1921.7
7239.0	72.5°	3109.4	1355.2	1297.4	1440.5	1464.9	1595.8	1562.3	1528.8	1638.4	1678.0
3578.4	75°	2156.2	1093.3	1059.8	1169.4	1257.8	1370.4	1346.1	1385.7	1617.1	1635.4
1787.7	77.5°	1364.4	849.7	828.4	898.4	1020.2	1145.1	1184.7	1635.4	2762.2	2871.8
928.9	80°	791.8	633.4	609.1	663.9	770.5	886.2	1142.0	2006.9	1821.2	1799.8
417.2	82.5°	441.6	435.5	405.0	420.3	514.7	639.5	1614.1	1413.1	1148.1	1184.7
167.5	85°	207.1	255.8	219.3	210.1	289.3	749.2	1078.1	807.0	536.0	523.8
36.5	87.5°	54.8	48.7	48.7	54.8	121.8	645.6	429.4	344.1	204.0	198.0
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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