

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: P955745

Luminaire Tested: **GALN-SB8C-835-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB8C-835-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

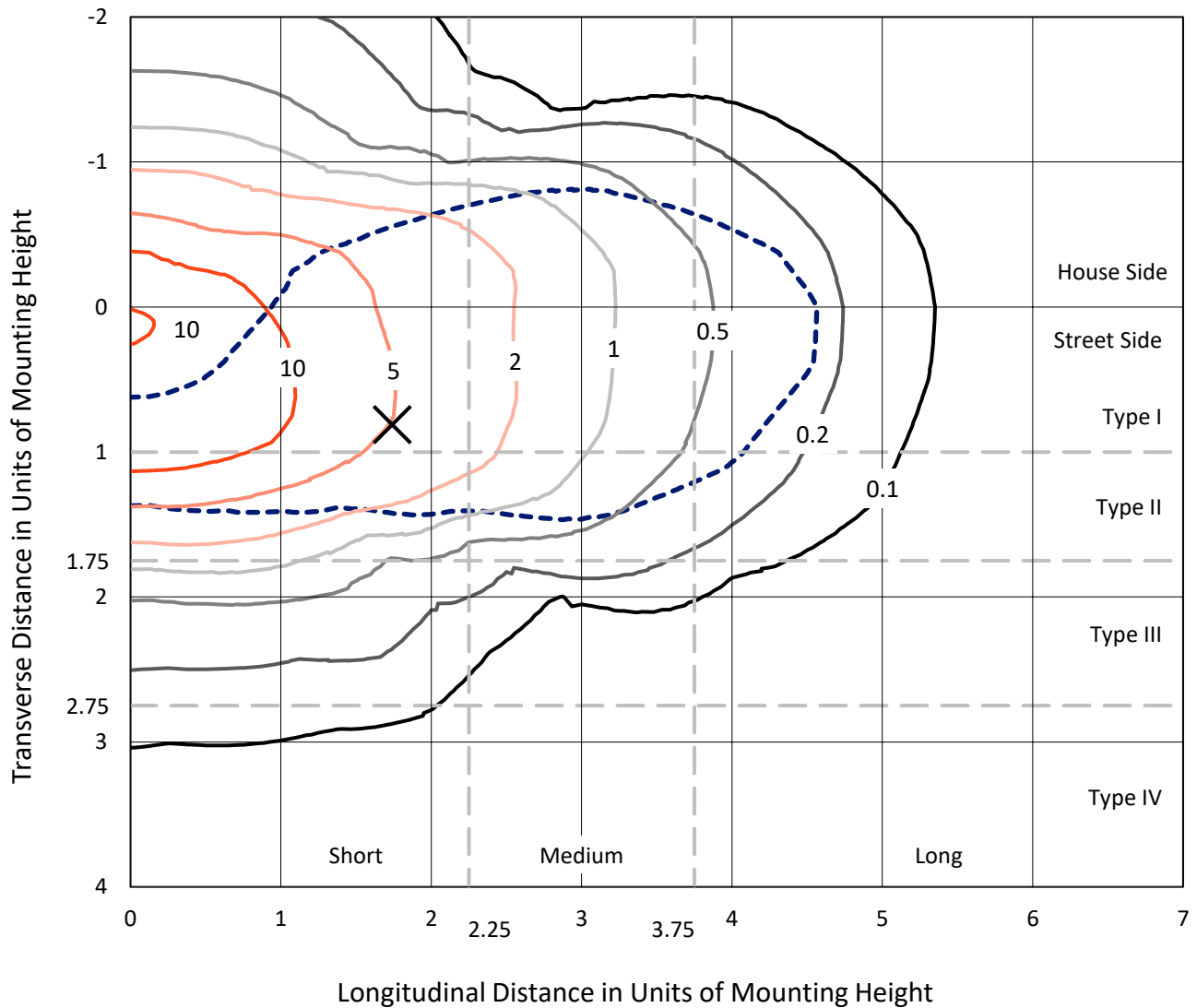
Lumens per Lamp: N/A  
Luminaire Lumens: 56923 lumens  
Efficiency: N/A  
Efficacy: 142.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

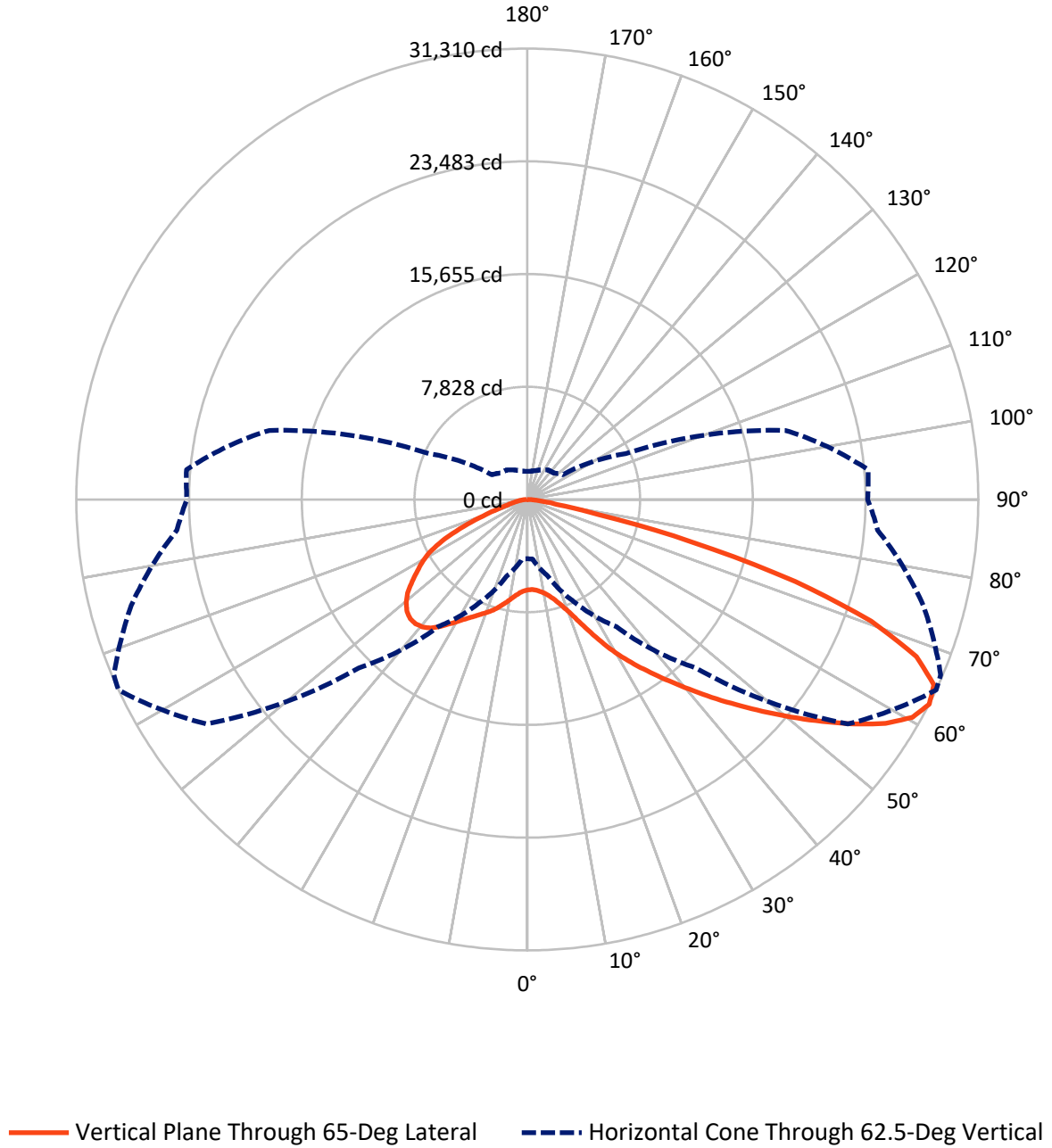
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17962.4	0.0	17962.4
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	38960.6	0.0	38960.6
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	56923.0	0.0	56923.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	625.4	1.1
10°-20°	2120.7	3.7
20°-30°	4300.0	7.6
30°-40°	7441.0	13.1
40°-50°	11260.6	19.8
50°-60°	13202.3	23.2
60°-70°	11068.5	19.4
70°-80°	6110.7	10.7
80°-90°	793.8	1.4
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°	56923.0	100.0
0°-180°	56923.0	100.0

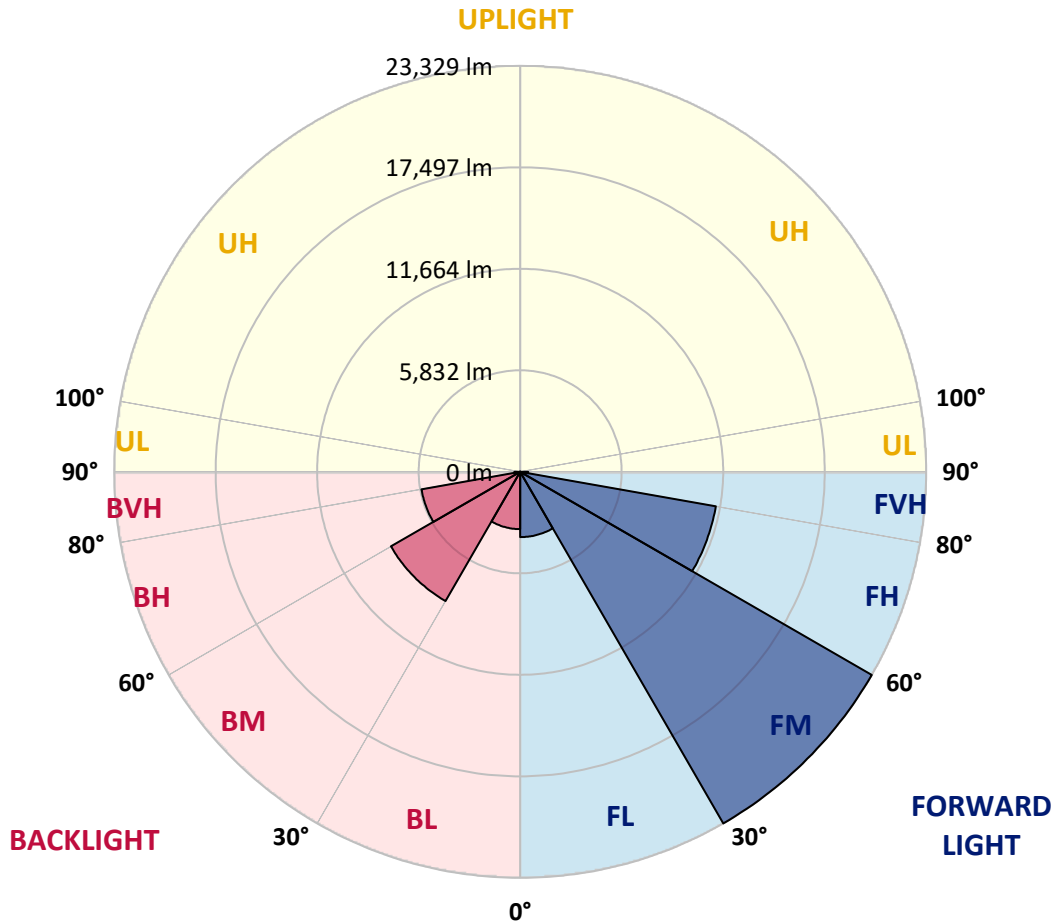


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3752.0	6.6			
FM (30°-60°)	23328.9	41.0			
FH (60°-80°)	11417.1	20.1			G4/12000
FVH (80°-90°)	462.6	0.8			G3/500
BL (0°-30°)	3294.1	5.8	B4/5000		
BM (30°-60°)	8575.0	15.1	B5		
BH (60°-80°)	5762.2	10.1	B5		G5
BVH (80°-90°)	331.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7
2.5°	6231.3	6213.6	6228.4	6228.4	6234.3	6231.3	6252.0	6257.9	6266.8	6284.5
5°	6169.3	6166.4	6192.9	6216.6	6240.2	6260.9	6287.4	6325.8	6331.7	6352.4
7.5°	6148.6	6130.9	6172.3	6201.8	6257.9	6308.1	6379.0	6444.0	6470.5	6479.4
10°	6308.1	6278.6	6317.0	6334.7	6381.9	6432.1	6514.8	6618.2	6647.7	6683.2
12.5°	6579.8	6547.3	6603.4	6630.0	6674.3	6718.6	6774.7	6875.1	6889.9	6954.9
15°	6951.9	6913.5	6949.0	6981.4	7055.3	7096.6	7152.7	7250.2	7250.2	7300.4
17.5°	7456.9	7406.7	7433.3	7445.1	7492.4	7554.4	7648.9	7734.5	7778.8	7761.1
20°	8210.0	8148.0	8148.0	8088.9	8071.2	8121.4	8245.4	8363.6	8410.8	8319.3
22.5°	9341.1	9252.5	9202.3	9001.5	8921.7	8927.6	9051.7	9196.4	9234.8	9072.3
25°	10779.3	10640.5	10572.6	10277.3	10097.1	9940.6	10038.0	10224.1	10277.3	10076.4
27.5°	12217.5	12226.4	12161.4	11807.0	11508.8	11222.3	11172.1	11367.0	11423.1	11195.7
30°	14234.6	14024.9	13900.9	13475.6	13050.3	12648.7	12442.0	12521.7	12536.5	12264.8
32.5°	15974.0	15920.9	15655.1	15283.0	14736.6	14107.6	13762.1	13635.1	13611.5	13224.6
35°	17955.7	17926.1	17645.6	17202.6	16611.9	15737.8	15114.6	14751.4	14721.9	14178.5
37.5°	19969.8	19969.8	19695.1	19210.8	18599.5	17506.8	16558.8	15982.9	15888.4	15179.6
40°	21576.3	21478.9	21529.1	21325.3	20625.4	19464.8	18162.4	17326.6	17199.6	16349.1
42.5°	22488.9	22456.4	22757.6	22985.0	22698.6	21771.2	19928.4	18782.6	18605.4	17636.7
45°	22692.6	22657.2	23194.7	24027.5	24429.1	24048.2	21848.0	20315.3	20099.7	18983.4
47.5°	22223.1	22152.2	22940.7	24254.9	25542.5	26212.9	23927.1	21978.0	21664.9	20294.6
50°	20811.4	20743.5	21936.6	23682.0	25917.6	27683.6	26183.4	23741.0	23262.6	21700.4
52.5°	17743.0	17775.5	19644.9	22042.9	25424.4	28599.1	28126.6	25598.6	25022.7	23138.6
55°	13821.1	13892.0	16189.6	18829.8	23451.6	28460.3	29452.6	27512.3	26939.4	24491.2
57.5°	9896.3	10209.3	12362.2	14975.8	19662.6	26260.2	29742.0	29331.5	28776.3	25967.8
60°	6414.4	6470.5	8685.5	11319.7	14972.9	22350.1	29154.3	30710.7	30276.5	27473.9
62.5°	4110.9	4149.3	5498.9	7917.6	10776.3	16535.2	27175.7	31310.2	31177.3	28469.2
65°	3021.2	2991.6	3694.5	5233.1	7259.0	10197.5	23333.5	31020.8	31283.6	29092.3
67.5°	2522.1	2480.7	2826.2	3623.6	5348.3	5791.3	17264.6	29139.6	30102.3	29021.4
70°	2297.6	2262.2	2471.9	2690.4	4172.9	3877.6	8703.2	25332.8	26815.4	28215.2
72.5°	1946.2	1884.2	2170.6	2389.2	3245.6	2973.9	3597.0	19458.9	21266.2	25631.1
75°	1509.1	1467.8	1712.9	2102.7	2439.4	2321.2	2274.0	11815.9	13788.6	19822.1
77.5°	1196.1	1139.9	1364.4	1639.0	2194.3	1751.3	1656.8	5088.4	7043.5	12654.6
80°	900.7	850.5	1036.6	1296.5	1686.3	1320.1	1072.0	2076.1	2655.0	6411.5
82.5°	640.9	596.6	723.5	950.9	1134.0	1184.2	658.6	1163.6	1308.3	2471.9
85°	410.5	383.9	484.3	596.6	720.6	761.9	401.6	608.4	667.4	1018.9
87.5°	224.4	183.1	259.9	277.6	333.7	304.2	192.0	221.5	239.2	369.2
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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6272.7	0°	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7	6272.7
6284.5	2.5°	6296.3	6305.2	6334.7	6343.5	6364.2	6390.8	6408.5	6426.2	6426.2	6444.0
6379.0	5°	6381.9	6402.6	6464.6	6497.1	6550.3	6603.4	6635.9	6674.3	6697.9	6709.7
6529.6	7.5°	6547.3	6579.8	6668.4	6724.5	6816.1	6889.9	6940.1	6993.3	7005.1	7037.6
6739.3	10°	6771.8	6810.2	6910.6	7016.9	7126.2	7217.7	7265.0	7303.3	7318.1	7324.0
7008.0	12.5°	7028.7	7084.8	7214.7	7344.7	7459.9	7539.6	7551.4	7542.6	7501.2	7465.8
7338.8	15°	7344.7	7394.9	7539.6	7681.4	7793.6	7808.3	7734.5	7687.3	7637.1	7628.2
7707.9	17.5°	7722.7	7749.3	7882.2	8021.0	8029.8	7979.6	7870.4	7826.1	7778.8	7746.3
8189.3	20°	8162.7	8153.9	8248.4	8307.4	8245.4	8091.9	7926.5	7852.6	7805.4	7767.0
8780.0	22.5°	8688.4	8620.5	8608.7	8593.9	8428.5	8106.6	7882.2	7787.7	7713.8	7660.7
9603.9	25°	9453.3	9193.4	9013.3	8912.9	8540.8	8026.9	7740.4	7530.7	7391.9	7300.4
10611.0	27.5°	10410.1	9973.1	9518.3	9273.2	8540.8	7864.5	7397.8	7058.2	6830.8	6736.3
11585.5	30°	11322.7	10864.9	10194.6	9707.3	8520.1	7598.7	6845.6	6373.1	6107.3	6012.8
12418.3	32.5°	12102.4	11603.3	10912.2	10182.7	8469.9	7167.5	6160.4	5637.7	5380.8	5268.6
13242.3	35°	12825.9	12294.3	11632.8	10705.5	8337.0	6535.5	5407.4	5008.7	4722.2	4542.1
14081.0	37.5°	13567.2	12935.2	12315.0	11178.0	8097.8	5797.2	4828.5	4488.9	4152.2	3910.1
14972.9	40°	14373.4	13617.4	13044.4	11458.5	7705.0	5094.3	4379.6	4069.6	3712.2	3455.3
16000.6	42.5°	15315.5	14435.4	13856.6	11603.3	7167.5	4595.2	4087.3	3783.1	3446.4	3236.7
17102.2	45°	16298.9	15336.1	14597.8	11600.3	6568.0	4361.9	3992.8	3691.5	3319.4	3100.9
18233.3	47.5°	17329.6	16278.2	15238.7	11411.3	6048.2	4394.4	3939.6	3493.7	3083.2	2870.5
19376.2	50°	18363.2	17308.9	15858.9	11056.9	5826.7	4323.5	3741.7	3216.1	2731.7	2539.8
20448.2	52.5°	19388.0	18404.6	16393.4	10551.9	5602.3	4060.7	3487.8	2855.8	2587.0	2454.1
21555.7	55°	20418.7	19488.4	16975.2	9816.5	5041.2	3753.6	3062.5	2719.9	2471.9	2350.8
22639.5	57.5°	21452.3	20740.6	17527.4	9081.2	4335.3	3375.5	2829.2	2554.5	2356.7	2253.3
23546.1	60°	22527.3	22172.9	18097.4	8404.9	3638.4	2891.2	2657.9	2421.7	2220.8	2105.7
24417.3	62.5°	23634.7	23749.9	18543.4	7533.7	2997.5	2595.9	2504.3	2262.2	2067.3	1958.0
25137.9	65°	24751.0	25270.8	18835.7	6325.8	2430.5	2315.3	2339.0	2087.9	1890.1	1795.6
25666.6	67.5°	25592.7	26366.5	18753.0	4787.2	1993.4	2049.5	2132.2	1904.8	1718.8	1645.0
25580.9	70°	25687.2	26236.5	17937.9	3278.1	1668.6	1789.7	1901.9	1724.7	1532.7	1479.6
24376.0	72.5°	24429.1	24464.6	15666.9	2141.1	1411.6	1571.1	1659.7	1541.6	1355.5	1302.4
21325.3	75°	21130.4	20232.6	11502.8	1411.6	1181.3	1349.6	1432.3	1349.6	1169.5	1181.3
15956.3	77.5°	16009.5	14329.1	6984.4	1004.1	986.4	1134.0	1246.3	1187.2	1033.6	1160.6
8023.9	80°	8248.4	7752.2	3115.7	750.1	779.7	906.6	1024.8	948.0	818.0	779.7
1792.6	82.5°	1890.1	2197.2	1228.5	537.5	564.1	652.7	782.6	711.7	587.7	496.1
747.2	85°	661.5	723.5	543.4	336.7	330.8	407.5	531.6	475.5	398.7	318.9
316.0	87.5°	209.7	274.7	203.8	135.8	141.8	183.1	245.1	224.4	186.1	121.1
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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180°  
6272.7  
6444.0  
6715.7  
7025.7  
7309.3  
7465.8  
7628.2  
7749.3  
7770.0  
7678.4  
7335.8  
6783.6  
6068.9  
5324.7  
4601.1  
3975.1  
3505.5  
3278.1  
3136.3  
2900.1  
2551.6  
2454.1  
2339.0  
2235.6  
2096.8  
1955.0  
1792.6  
1647.9  
1482.5  
1299.4  
1139.9  
1021.8  
711.7  
490.2  
336.7  
127.0  
0.0

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