

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: P944087

Luminaire Tested: **GALN-SB8D-840-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-840-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 78761 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

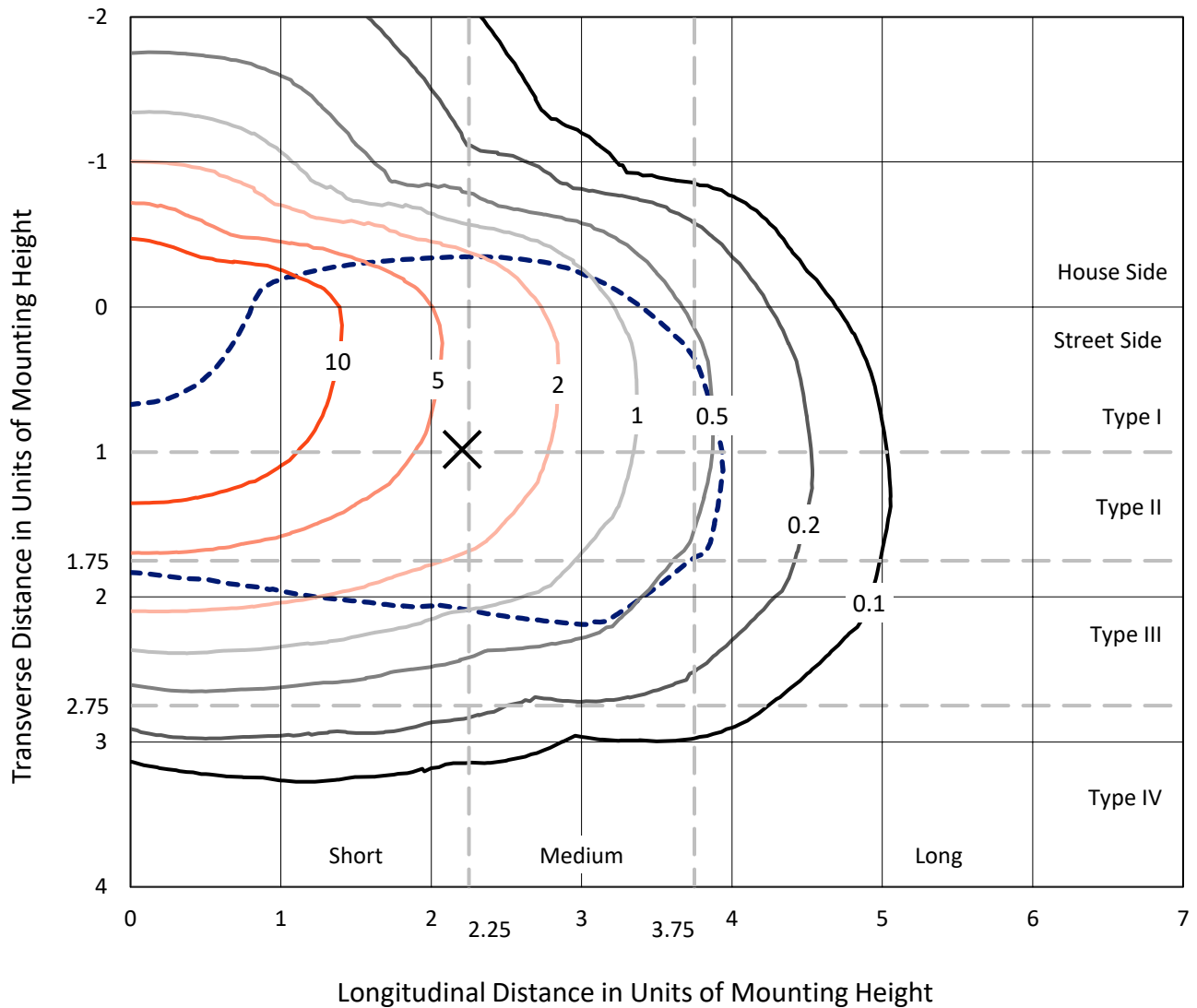
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

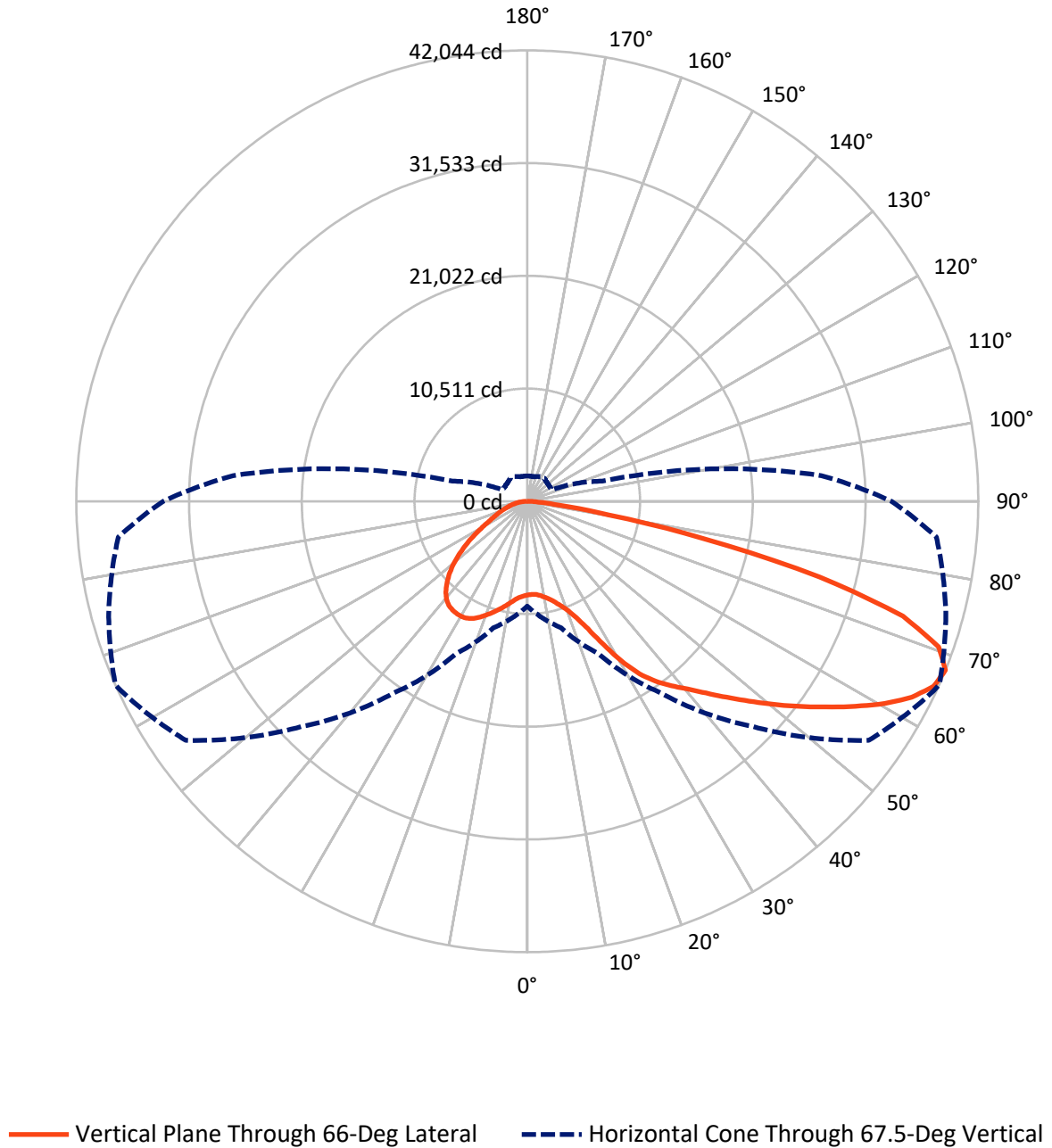
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19583.7	0.0	19583.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	59177.3	0.0	59177.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	78761.0	0.0	78761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	866.1	1.1
10°-20°	2861.5	3.6
20°-30°	5515.4	7.0
30°-40°	9670.5	12.3
40°-50°	14376.8	18.3
50°-60°	18224.0	23.1
60°-70°	17831.7	22.6
70°-80°	8505.9	10.8
80°-90°	909.1	1.2
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°	78761.0	100.0
0°-180°	78761.0	100.0

Coefficient of Utilization



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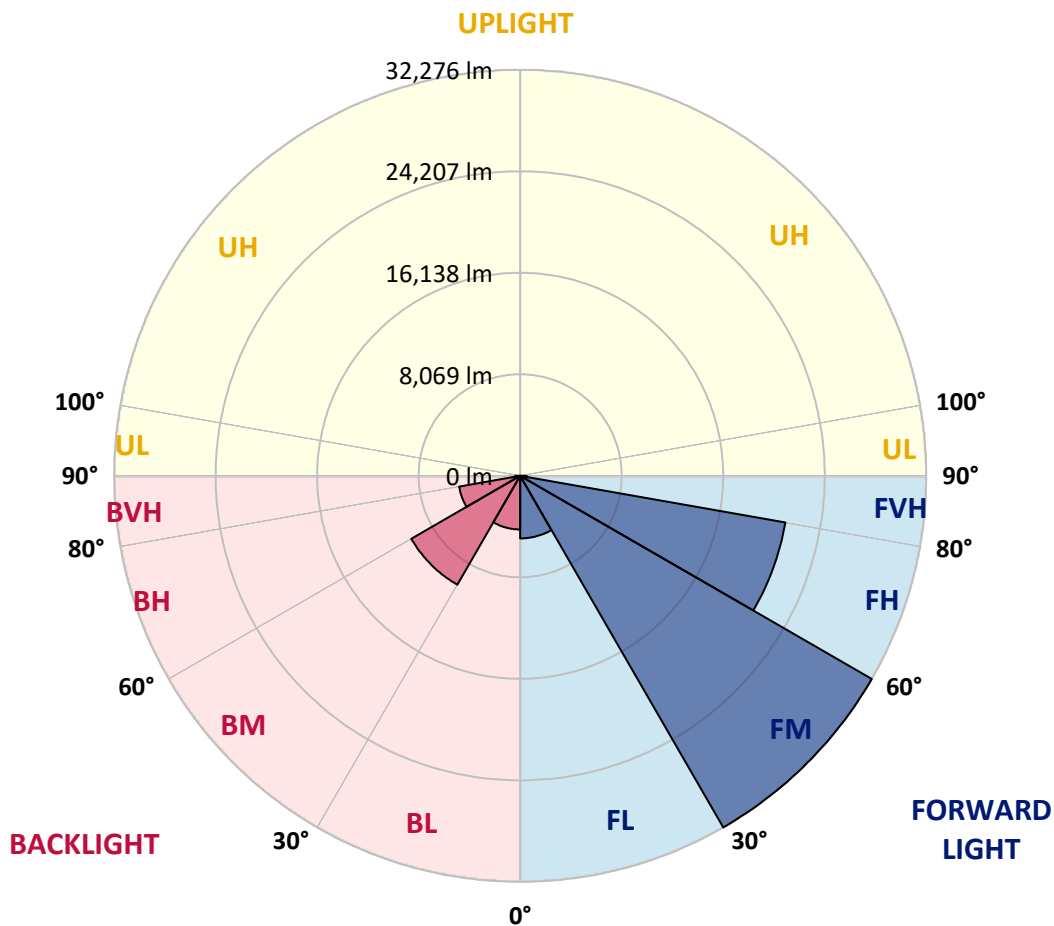
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4976.9	6.3			
FM (30°-60°)	32275.6	41.0			
FH (60°-80°)	21409.4	27.2			G5
FVH (80°-90°)	515.4	0.7			G4/750
BL (0°-30°)	4266.0	5.4	B4/5000		
BM (30°-60°)	9995.7	12.7	B5		
BH (60°-80°)	4928.3	6.3	B4/5000		G4/5000
BVH (80°-90°)	393.7	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	8735.6	8735.6	8735.6	8735.6	8735.6	8735.6	8735.6	8735.6	8735.6	8735.6
2.5°	8644.6	8694.3	8681.8	8661.1	8657.0	8665.3	8677.7	8690.1	8686.0	8706.7
5°	8619.8	8669.4	8665.3	8665.3	8681.8	8714.9	8735.6	8756.3	8735.6	8760.5
7.5°	8636.3	8673.6	8690.1	8706.7	8748.1	8810.1	8859.8	8905.3	8880.5	8909.4
10°	8847.4	8876.3	8892.9	8892.9	8921.9	8992.2	9041.9	9124.6	9103.9	9149.5
12.5°	9232.2	9261.2	9261.2	9244.6	9265.3	9310.8	9327.4	9418.4	9381.2	9455.7
15°	9704.0	9761.9	9716.4	9687.4	9695.7	9741.2	9737.1	9807.4	9770.2	9832.2
17.5°	10225.4	10299.9	10225.4	10221.2	10204.7	10254.3	10258.5	10320.5	10254.3	10299.9
20°	10842.0	10945.4	10883.3	10904.0	10866.8	10887.5	10908.2	10999.2	10895.8	10928.9
22.5°	11711.0	11835.1	11768.9	11847.5	11822.7	11806.1	11802.0	11963.4	11802.0	11814.4
25°	12977.2	13126.2	13010.3	13117.9	13117.9	13171.7	13233.8	13440.7	13171.7	13093.1
27.5°	14847.7	14996.7	14769.1	14835.3	14814.6	14947.0	14880.8	15393.9	15104.2	14976.0
30°	17098.8	17363.7	16933.3	16916.8	16896.1	17107.1	17202.3	17541.6	17247.8	17119.5
32.5°	19532.1	19809.3	19296.2	19147.2	19068.6	19196.9	19118.3	19391.4	19188.6	18990.0
35°	22106.0	22379.1	21890.8	21601.1	21286.6	21017.7	20736.3	20806.6	20616.3	20314.2
37.5°	24539.2	25039.9	24522.7	24212.3	23633.0	23107.4	22321.2	21994.3	21816.3	21539.1
40°	27018.0	27303.5	26910.4	26645.6	26016.6	25193.1	23935.1	23244.0	23004.0	22735.0
42.5°	28842.9	29116.0	28905.0	28722.9	28230.5	27274.6	25648.3	24783.4	24435.8	24133.7
45°	30291.3	30494.0	30361.6	30427.8	30216.8	29289.8	27423.5	26434.5	26074.5	25706.2
47.5°	30874.7	31089.9	31301.0	31694.1	32054.1	31371.3	29331.2	28222.2	27841.5	27464.9
50°	30808.5	31027.9	31640.3	32476.2	33593.5	33365.9	31342.4	30125.7	29774.0	29343.6
52.5°	30278.8	30527.1	31313.4	32703.8	34483.2	34859.8	33390.7	32091.4	31760.3	31247.2
55°	28888.4	29037.4	30216.8	32186.5	34694.3	35902.6	35397.7	34185.3	33854.2	33138.3
57.5°	26310.4	26525.5	28242.9	30792.0	34164.6	36610.2	37160.6	36386.8	36068.1	35037.7
60°	22946.0	23289.5	25255.1	28449.8	32815.5	36606.1	38762.1	38551.0	38286.2	36908.2
62.5°	19138.9	19536.2	21427.3	25139.3	30456.8	35567.4	39763.5	40363.5	40227.0	38633.8
65°	14698.7	14971.8	16854.7	20856.3	26786.2	33336.9	39879.4	41600.8	41625.7	39945.6
67.5°	9786.7	10573.0	12207.5	15650.5	21870.1	29691.2	38861.4	41803.6	42043.6	40396.6
70°	4775.4	5810.0	7411.4	10171.6	15650.5	24100.6	36200.5	40140.1	40673.9	39080.7
72.5°	1982.2	2317.4	3190.5	5019.6	8983.9	16262.9	30854.1	35629.5	36618.5	34628.0
75°	1336.6	1448.4	1824.9	2573.9	4092.6	8019.7	22250.8	26566.9	28160.1	26153.1
77.5°	1030.4	1100.7	1328.3	1800.1	2433.2	3033.3	11909.6	16010.5	16834.0	15584.3
80°	811.1	864.9	993.2	1311.8	1725.6	1622.2	4059.5	7254.2	7730.1	6484.5
82.5°	703.5	724.2	711.8	889.7	1146.3	947.6	1332.5	2677.4	2954.6	2143.6
85°	509.0	566.9	591.8	550.4	608.3	480.0	546.2	947.6	1042.8	931.1
87.5°	206.9	306.2	376.6	355.9	223.5	136.6	169.7	277.3	318.6	347.6
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8735.6	0°	8735.6	8735.6	8735.6	8735.6	8735.6	8735.6	8735.6	8735.6	8735.6	8735.6
8739.8	2.5°	8743.9	8772.9	8793.6	8818.4	8835.0	8859.8	8909.4	8938.4	8942.5	8963.2
8806.0	5°	8822.5	8863.9	8909.4	8975.6	9050.1	9112.2	9207.4	9273.6	9298.4	9319.1
8967.4	7.5°	8992.2	9050.1	9132.9	9248.8	9356.4	9439.1	9555.0	9633.6	9712.2	9741.2
9223.9	10°	9244.6	9327.4	9447.4	9604.6	9720.5	9828.1	9948.1	10014.3	10092.9	10126.1
9530.2	12.5°	9559.1	9646.0	9803.3	10022.6	10130.2	10204.7	10246.1	10229.5	10246.1	10275.0
9898.5	15°	9919.1	10014.3	10192.3	10428.1	10502.6	10436.4	10345.4	10262.6	10250.2	10258.5
10345.4	17.5°	10345.4	10415.7	10622.6	10821.3	10767.5	10494.3	10295.7	10163.3	10097.1	10076.4
10916.4	20°	10941.3	10941.3	11110.9	11235.1	10875.1	10411.6	10101.2	9886.0	9749.5	9691.5
11694.4	22.5°	11665.4	11599.2	11706.8	11619.9	10854.4	10179.9	9749.5	9377.0	9170.1	9087.4
12782.7	25°	12584.1	12505.5	12476.5	11938.6	10705.4	9811.6	9112.2	8661.1	8479.1	8433.6
14351.1	27.5°	13970.4	13771.8	13395.2	12112.4	10432.3	9232.2	8367.3	7949.4	7845.9	7850.1
16366.4	30°	15816.0	15418.7	14495.9	12141.3	9985.4	8412.9	7605.9	7308.0	7258.3	7279.0
18058.9	32.5°	17525.1	17148.5	15621.5	12008.9	9298.4	7610.1	6923.1	6724.5	6650.0	6674.8
19350.0	35°	18865.8	18762.4	16664.3	11822.7	8454.2	6856.9	6310.7	6141.0	5996.2	5963.1
20566.6	37.5°	20132.1	20090.7	17446.4	11562.0	7618.3	6323.1	5818.2	5594.8	5383.7	5267.9
21911.5	40°	21522.5	21481.1	17959.6	11160.6	6877.6	5859.6	5375.5	5081.6	4820.9	4609.9
23434.3	42.5°	23086.7	22842.6	18203.7	10585.4	6248.6	5466.5	5015.4	4618.2	4274.7	4080.2
25155.8	45°	24795.8	24245.4	18199.6	9852.9	5718.9	5106.5	4630.6	4067.8	3749.2	3567.1
26922.8	47.5°	26608.3	25586.2	17976.1	9041.9	5205.8	4709.2	4034.7	3604.3	3393.3	3281.6
28842.9	50°	28478.8	26840.0	17595.4	8110.8	4680.2	4258.2	3662.3	3368.5	3207.1	3103.6
30746.5	52.5°	30237.5	27978.0	17136.1	7055.5	4146.4	3819.5	3496.7	3269.1	3099.5	2983.6
32592.1	55°	31872.0	28958.8	16486.4	5975.5	3711.9	3525.7	3418.1	3227.8	3033.3	2896.7
34466.7	57.5°	33324.5	29596.1	15365.0	4961.6	3401.6	3322.9	3335.3	3157.4	2933.9	2818.1
36312.3	60°	34532.9	30063.7	13705.6	4022.3	3149.1	3124.3	3207.1	3025.0	2764.3	2631.9
37872.4	62.5°	35257.0	30055.4	11669.6	3294.0	2933.9	2942.2	3037.4	2859.5	2594.6	2470.5
38687.6	65°	35195.0	29318.8	9435.0	2818.1	2727.0	2735.3	2859.5	2677.4	2453.9	2379.4
38277.9	67.5°	33949.4	27522.8	7237.6	2507.7	2499.4	2536.7	2681.5	2553.2	2367.0	2358.7
35836.4	70°	30576.8	23794.4	5214.1	2259.4	2263.6	2317.4	2507.7	2474.6	2321.5	2338.1
30129.9	72.5°	24518.5	18141.7	3500.9	1998.7	2002.9	2089.8	2342.2	2412.5	2276.0	2495.3
21377.7	75°	16329.1	11313.7	2251.2	1721.5	1725.6	1837.3	2197.4	2292.5	2151.8	2487.0
11123.3	77.5°	7845.9	5085.8	1630.4	1448.4	1448.4	1551.8	1899.4	2052.5	1833.2	1932.5
3575.4	80°	2710.5	1911.8	1282.8	1167.0	1142.1	1212.5	1601.5	1779.4	1580.8	1456.6
1167.0	82.5°	1067.6	993.2	1030.4	906.3	823.5	869.0	1245.6	1469.0	1162.8	1051.1
658.0	85°	612.4	645.6	728.3	600.0	475.9	533.8	914.5	1055.2	877.3	773.8
215.2	87.5°	165.5	227.6	335.2	310.4	215.2	227.6	434.5	583.5	504.9	389.0
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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180°
8735.6
8959.1
9315.0
9745.3
10142.6
10283.3
10287.4
10105.4
9679.1
9075.0
8441.8
7862.5
7349.4
6707.9
5987.9
5272.0
4630.6
4092.6
3558.8
3256.7
3066.4
2933.9
2842.9
2743.6
2573.9
2433.2
2375.3
2371.2
2333.9
2528.4
2507.7
1771.1
1365.6
1047.0
790.4
401.4
0.0

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