

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: P951820

Luminaire Tested: **GALN-SB5D-835-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-835-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48947 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

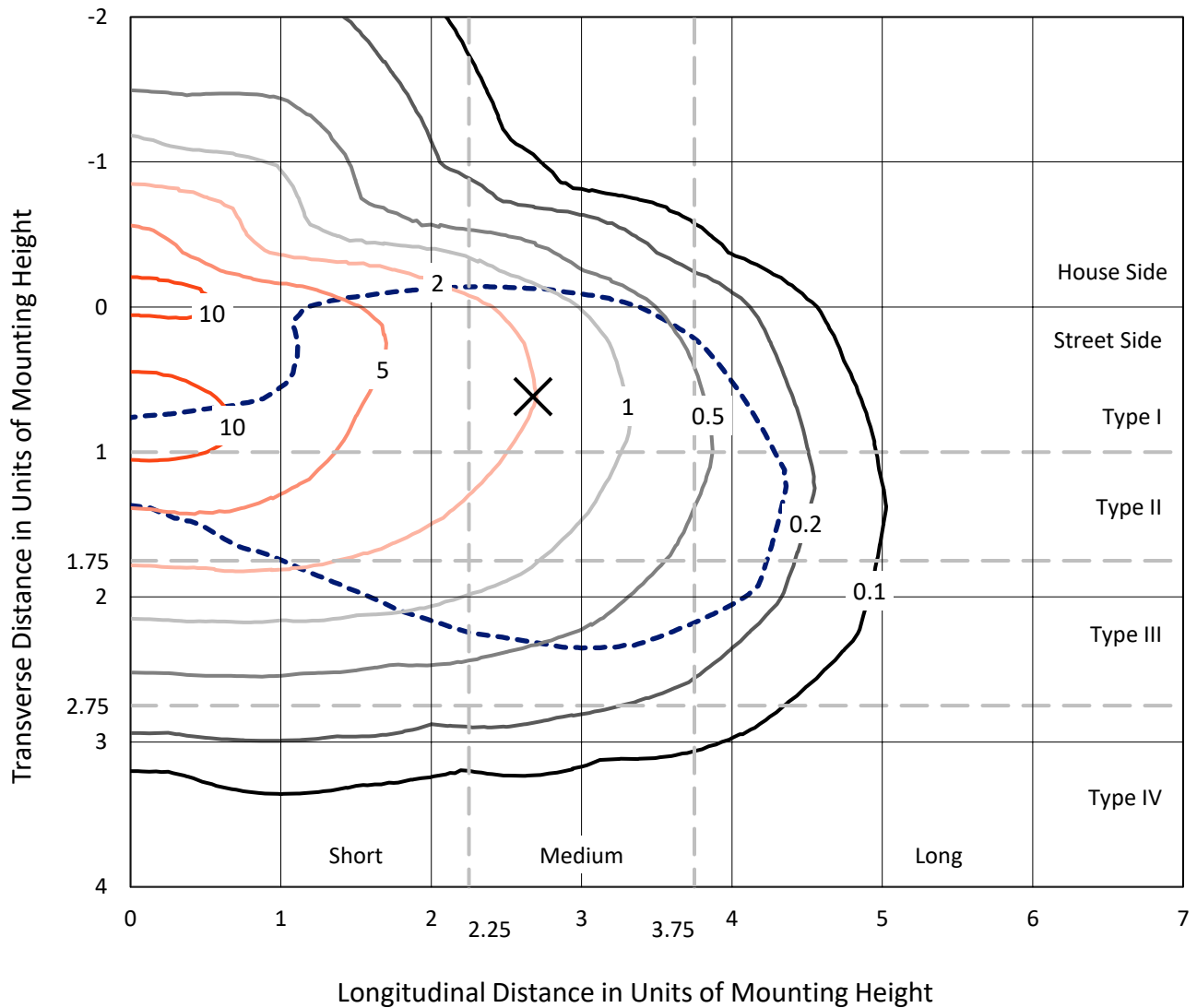
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

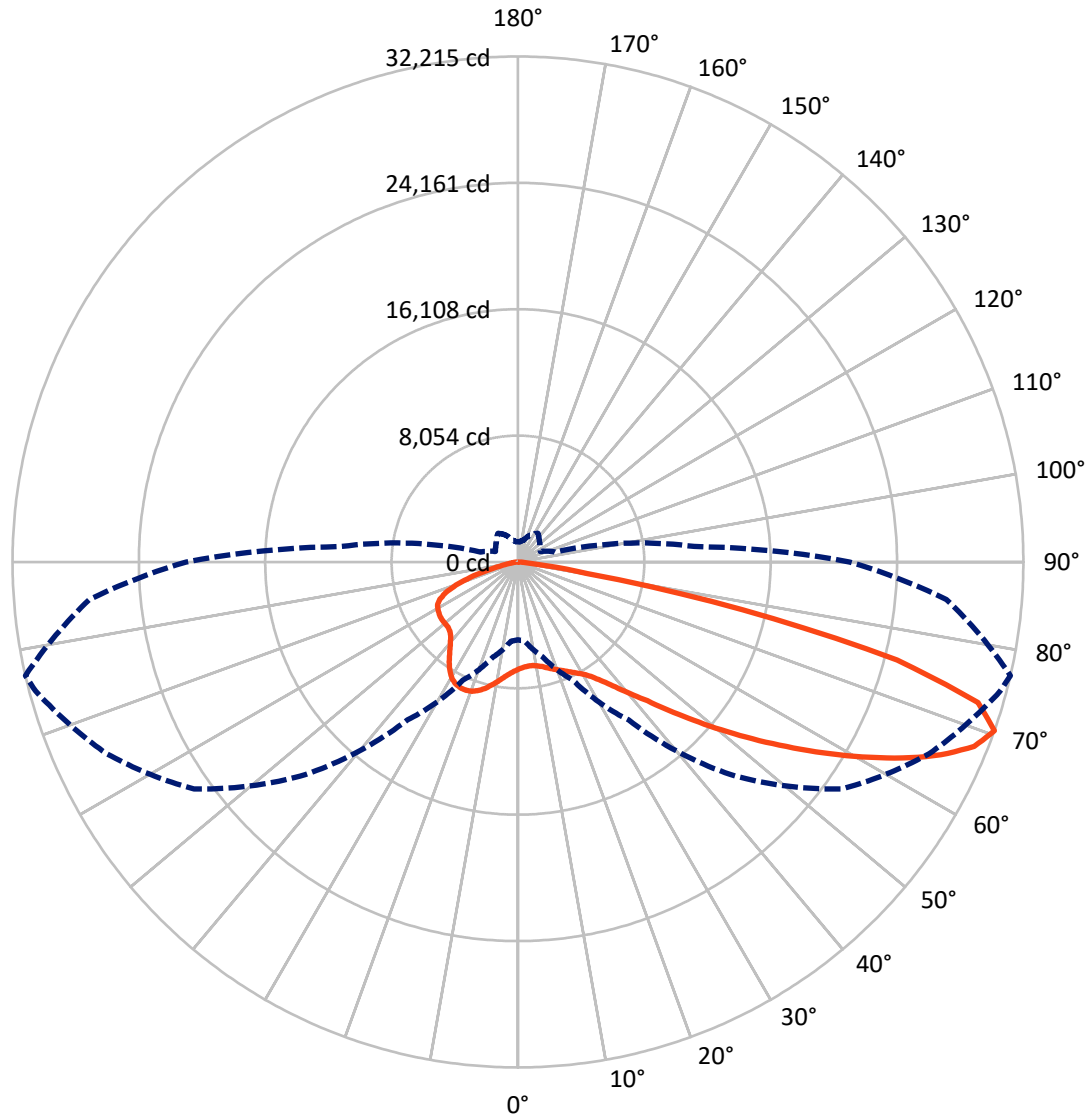
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10718.6	0.0	10718.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	38228.4	0.0	38228.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	48947.0	0.0	48947.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.3	1.3
10°-20°	1879.6	3.8
20°-30°	3214.4	6.6
30°-40°	5169.0	10.6
40°-50°	8070.2	16.5
50°-60°	10779.9	22.0
60°-70°	11489.7	23.5
70°-80°	7073.0	14.5
80°-90°	619.8	1.3
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°	48947.0	100.0
0°-180°	48947.0	100.0



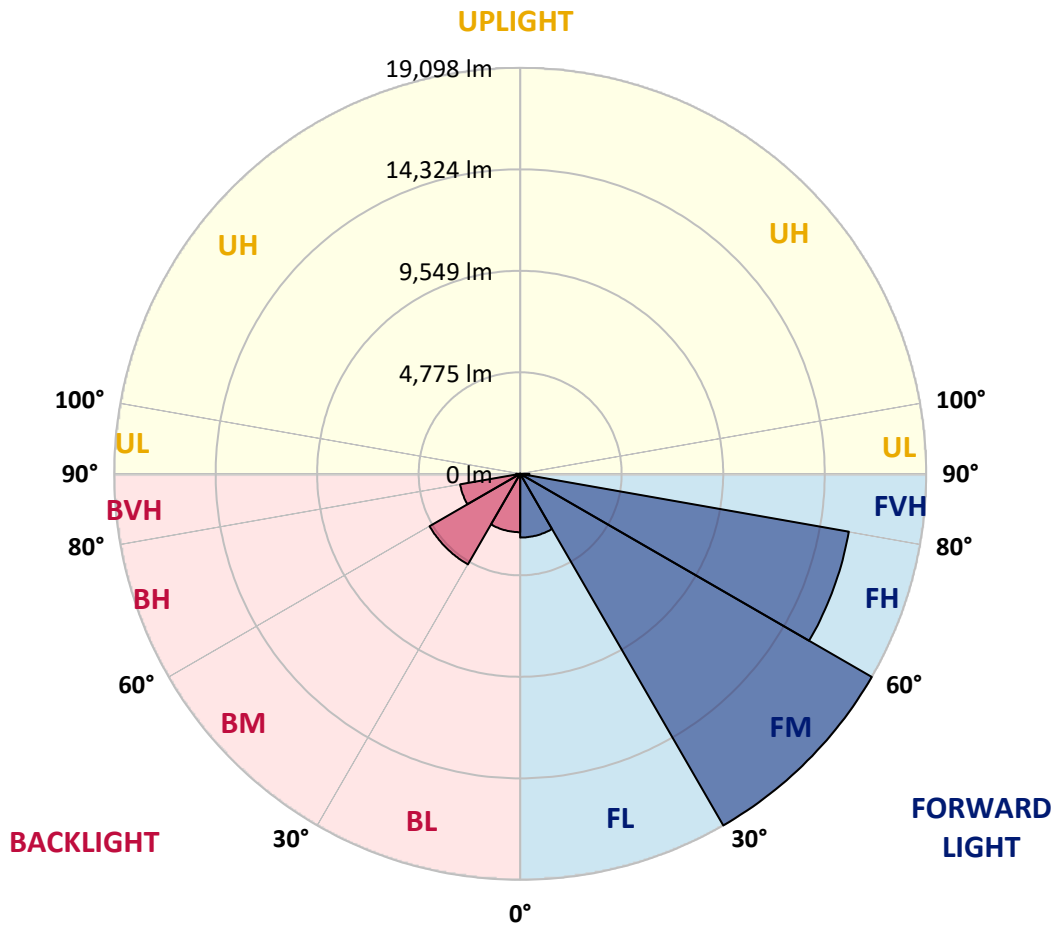
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2998.8	6.1			
FM (30°-60°)	19098.1	39.0			
FH (60°-80°)	15698.1	32.1			G5
FVH (80°-90°)	433.4	0.9			G3/500
BL (0°-30°)	2746.4	5.6	B4/5000		
BM (30°-60°)	4921.2	10.1	B3/5000		
BH (60°-80°)	2864.6	5.9	B4/5000		G4/5000
BVH (80°-90°)	186.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6828.6	6828.6	6828.6	6828.6	6828.6	6828.6	6828.6	6828.6	6828.6	6828.6
2.5°	6294.6	6292.1	6324.7	6334.7	6394.9	6437.5	6517.7	6602.9	6713.2	6725.8
5°	5931.1	5931.1	5968.7	6008.8	6086.5	6171.8	6294.6	6442.5	6633.0	6663.1
7.5°	5622.8	5642.8	5675.4	5753.1	5843.4	5966.2	6154.2	6364.8	6615.5	6663.1
10°	5374.6	5397.2	5437.3	5499.9	5635.3	5805.8	6051.4	6322.2	6658.1	6733.3
12.5°	5296.9	5319.5	5342.0	5389.6	5515.0	5715.5	6008.8	6342.2	6760.9	6836.1
15°	5477.4	5505.0	5487.4	5474.9	5540.1	5723.0	6028.9	6414.9	6888.7	6996.5
17.5°	5893.5	5903.5	5863.4	5745.6	5735.6	5833.3	6124.1	6515.2	7049.2	7167.0
20°	6565.3	6547.8	6465.1	6231.9	6099.1	6079.0	6287.1	6665.6	7214.6	7339.9
22.5°	7477.8	7457.8	7292.3	6923.8	6628.0	6432.5	6522.7	6861.1	7400.1	7540.5
25°	8615.9	8588.3	8345.2	7843.8	7385.1	6901.3	6843.6	7119.3	7628.2	7758.6
27.5°	9944.5	9922.0	9658.7	8996.9	8335.1	7543.0	7242.2	7422.7	7866.4	8014.3
30°	11373.4	11438.6	10972.3	10260.4	9423.1	8380.3	7778.6	7796.2	8174.7	8307.6
32.5°	13053.0	13165.8	12604.2	11701.8	10558.7	9290.2	8455.5	8317.6	8623.4	8733.7
35°	14717.5	14845.3	14379.1	13381.4	12065.3	10363.2	9162.4	8916.7	9220.1	9340.4
37.5°	16156.4	16326.9	16086.2	15218.8	13677.2	11656.7	10084.9	9621.1	9954.5	10105.0
40°	17292.0	17552.7	17535.1	16993.7	15577.3	13225.9	11255.6	10491.0	10867.0	11030.0
42.5°	18214.5	18440.1	18635.6	18608.1	17560.2	15008.3	12631.8	11621.6	11907.4	12095.4
45°	18851.2	19091.9	19513.0	19966.7	19467.9	16916.0	14208.6	12962.7	13223.4	13506.7
47.5°	19420.3	19693.5	20240.0	20959.4	21087.3	18831.2	15935.8	14524.5	14762.6	15055.9
50°	19470.4	19706.0	20553.3	21573.6	22237.9	20671.2	17790.8	16276.7	16499.8	16813.2
52.5°	18259.6	18630.6	20109.6	21556.1	22766.9	22210.3	19633.3	18099.2	18349.9	18725.9
55°	14173.5	14717.5	18808.6	20884.2	22578.8	23205.5	21385.6	20036.9	20357.8	20751.4
57.5°	12208.2	12446.3	14930.6	19660.9	21721.5	23463.8	22864.6	21994.8	22511.2	22942.3
60°	10972.3	11170.3	12639.3	17758.2	20593.5	23055.1	24007.7	23819.7	24712.1	25226.0
62.5°	9648.7	9836.7	11172.9	14827.8	19149.5	22375.8	24729.7	25504.3	26968.3	27529.8
65°	8335.1	8495.6	9776.6	12458.9	17314.5	21696.4	25103.2	26960.8	29056.4	29638.0
67.5°	6871.2	7004.0	8214.8	10511.1	15083.5	20766.4	25288.7	28106.4	30873.9	31372.7
70°	4958.5	5061.3	6312.1	8312.6	12283.4	19167.1	25213.5	28918.6	31816.4	32215.0
72.5°	2343.9	2436.6	3905.6	5397.2	8676.1	16053.6	23691.9	28274.3	30858.8	30660.8
75°	1250.9	1331.1	2243.6	2960.5	4582.5	11004.9	19387.7	24356.2	25912.9	24950.3
77.5°	847.3	910.0	1388.8	1777.3	2093.2	5224.2	12461.4	16863.3	16224.1	14634.8
80°	671.8	737.0	1138.1	1203.3	1012.8	1887.6	5149.0	7806.2	5607.7	4484.7
82.5°	516.4	589.1	957.6	872.4	551.5	774.6	1499.1	2469.2	1436.4	1093.0
85°	315.9	393.6	752.0	556.5	310.8	353.5	508.9	686.9	438.7	366.0
87.5°	160.4	225.6	381.0	203.1	140.4	82.7	135.4	135.4	115.3	100.3
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°
6828.6	0°	6828.6	6828.6	6828.6	6828.6	6828.6	6828.6	6828.6	6828.6	6828.6	6828.6
6793.5	2.5°	6853.6	6903.8	6989.0	7069.2	7131.9	7192.0	7252.2	7284.8	7294.8	7334.9
6831.1	5°	6933.8	7026.6	7192.0	7347.5	7445.2	7505.4	7548.0	7573.1	7578.1	7590.6
6933.8	7.5°	7081.7	7229.6	7460.3	7615.7	7688.4	7683.4	7665.8	7603.2	7578.1	7555.5
7084.2	10°	7289.8	7485.3	7768.6	7876.4	7831.3	7711.0	7555.5	7372.5	7287.3	7204.6
7289.8	12.5°	7548.0	7796.2	8074.4	8069.4	7846.3	7538.0	7177.0	6896.2	6718.3	6590.4
7543.0	15°	7861.4	8147.1	8360.2	8189.8	7700.9	7146.9	6618.0	6252.0	6091.6	5951.2
7798.7	17.5°	8184.7	8490.6	8588.3	8152.1	7334.9	6567.8	5968.7	5680.4	5522.5	5447.3
8074.4	20°	8500.6	8803.9	8723.7	7936.6	6778.4	5911.1	5377.1	5219.2	5186.6	5204.1
8342.7	22.5°	8834.0	9104.7	8751.3	7520.4	6069.0	5239.2	4945.9	4951.0	5023.6	5076.3
8623.4	25°	9174.9	9357.9	8678.6	6918.8	5306.9	4745.4	4672.7	4752.9	4895.8	4998.6
8939.3	27.5°	9503.3	9583.5	8520.7	6174.3	4652.6	4391.9	4404.5	4569.9	4785.5	4928.4
9322.8	30°	9874.3	9784.1	8217.3	5337.0	4198.9	4088.6	4193.9	4386.9	4602.5	4730.4
9806.6	32.5°	10293.0	9957.1	7736.0	4562.4	3878.0	3845.4	4018.4	4143.8	4239.0	4276.6
10448.4	35°	10814.4	10200.2	7119.3	4018.4	3589.8	3667.5	3832.9	3770.2	3732.6	3712.6
11310.7	37.5°	11491.2	10528.6	6397.4	3665.0	3356.6	3539.6	3607.3	3411.8	3263.9	3191.2
12356.1	40°	12305.9	11009.9	5703.0	3391.7	3208.7	3429.3	3311.5	3075.9	2887.8	2785.1
13531.8	42.5°	13210.9	11513.8	5118.9	3186.2	3126.0	3339.1	3093.4	2812.6	2509.3	2476.7
14933.1	45°	14161.0	12032.7	4720.3	3028.2	3085.9	3261.4	2968.1	2514.3	2298.7	2431.6
16339.4	47.5°	15111.1	12509.0	4479.7	2910.4	3065.8	3173.6	2857.8	2348.9	2196.0	2389.0
17846.0	50°	16168.9	12935.1	4371.9	2825.2	3043.3	3138.5	2692.3	2306.3	2088.2	2216.0
19405.2	52.5°	17219.3	13266.0	4291.7	2739.9	3010.7	3111.0	2612.1	2256.1	1957.8	1965.3
20974.5	55°	18267.1	13481.6	4203.9	2627.1	2938.0	3050.8	2604.6	2201.0	1860.1	1825.0
22634.0	57.5°	19385.2	13604.5	4096.1	2501.8	2812.6	2897.9	2597.1	2158.4	1830.0	1772.3
24331.1	60°	20523.3	13785.0	3955.7	2348.9	2644.7	2714.9	2579.5	2143.3	1812.4	1714.7
25930.5	62.5°	21543.5	13847.6	3787.8	2203.5	2429.1	2534.4	2541.9	2130.8	1764.8	1596.8
27259.1	65°	22212.9	13576.9	3494.5	2038.0	2196.0	2348.9	2469.2	2088.2	1679.6	1511.6
27915.8	67.5°	22185.3	12804.8	3035.7	1825.0	1970.4	2143.3	2363.9	2015.5	1576.8	1406.3
27419.5	70°	21152.5	11280.6	2454.2	1576.8	1722.2	1922.7	2228.6	1907.7	1454.0	1291.0
24381.2	72.5°	18141.8	8829.0	1782.3	1286.0	1433.9	1694.6	2053.1	1777.3	1328.6	1188.2
18019.0	75°	12960.2	5587.7	1208.3	987.7	1115.5	1436.4	1835.0	1624.4	1213.3	1193.2
9024.5	77.5°	6620.5	2669.8	799.7	722.0	777.1	1133.1	1541.7	1451.4	1230.8	985.2
2567.0	80°	2153.4	985.2	503.9	491.3	516.4	754.6	1193.2	1190.7	932.5	669.3
621.7	82.5°	686.9	423.7	328.4	315.9	303.3	473.8	832.3	942.6	629.2	423.7
223.1	85°	273.2	253.2	193.0	178.0	127.8	223.1	436.2	626.7	468.8	305.8
57.7	87.5°	100.3	100.3	52.6	37.6	27.6	75.2	117.8	188.0	268.2	157.9
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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<u>180°</u>
6828.6
7357.5
7610.7
7560.5
7179.5
6560.3
5936.1
5469.9
5196.6
5088.8
5026.2
4963.5
4760.4
4296.7
3732.6
3208.7
2792.6
2509.3
2501.8
2479.2
2311.3
2018.0
1850.0
1779.8
1722.2
1596.8
1511.6
1413.8
1306.0
1180.7
1125.6
877.4
591.6
421.1
313.4
155.4
0.0

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