

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: P943342

Luminaire Tested: **GALN-SB7D-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75895 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

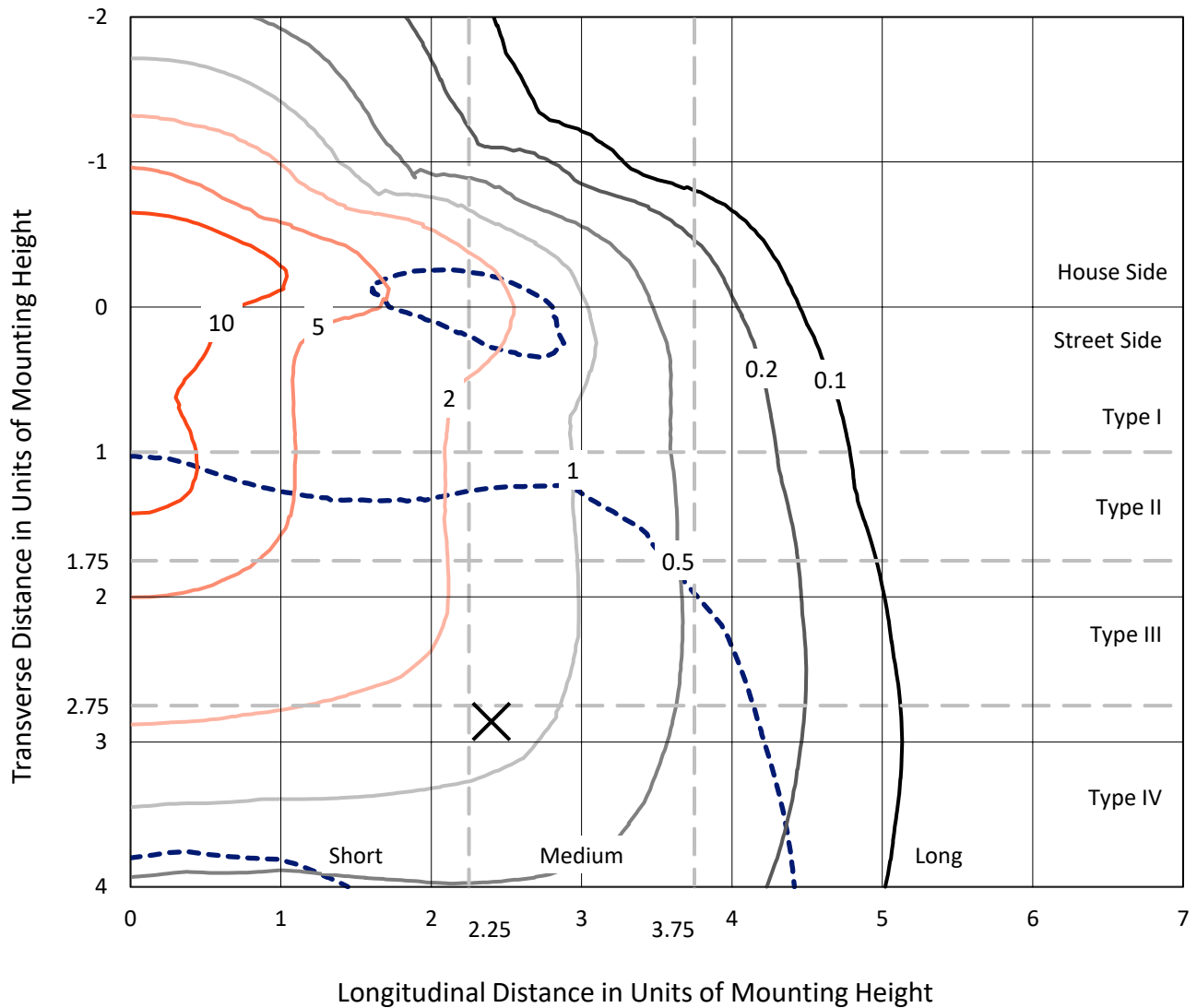
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

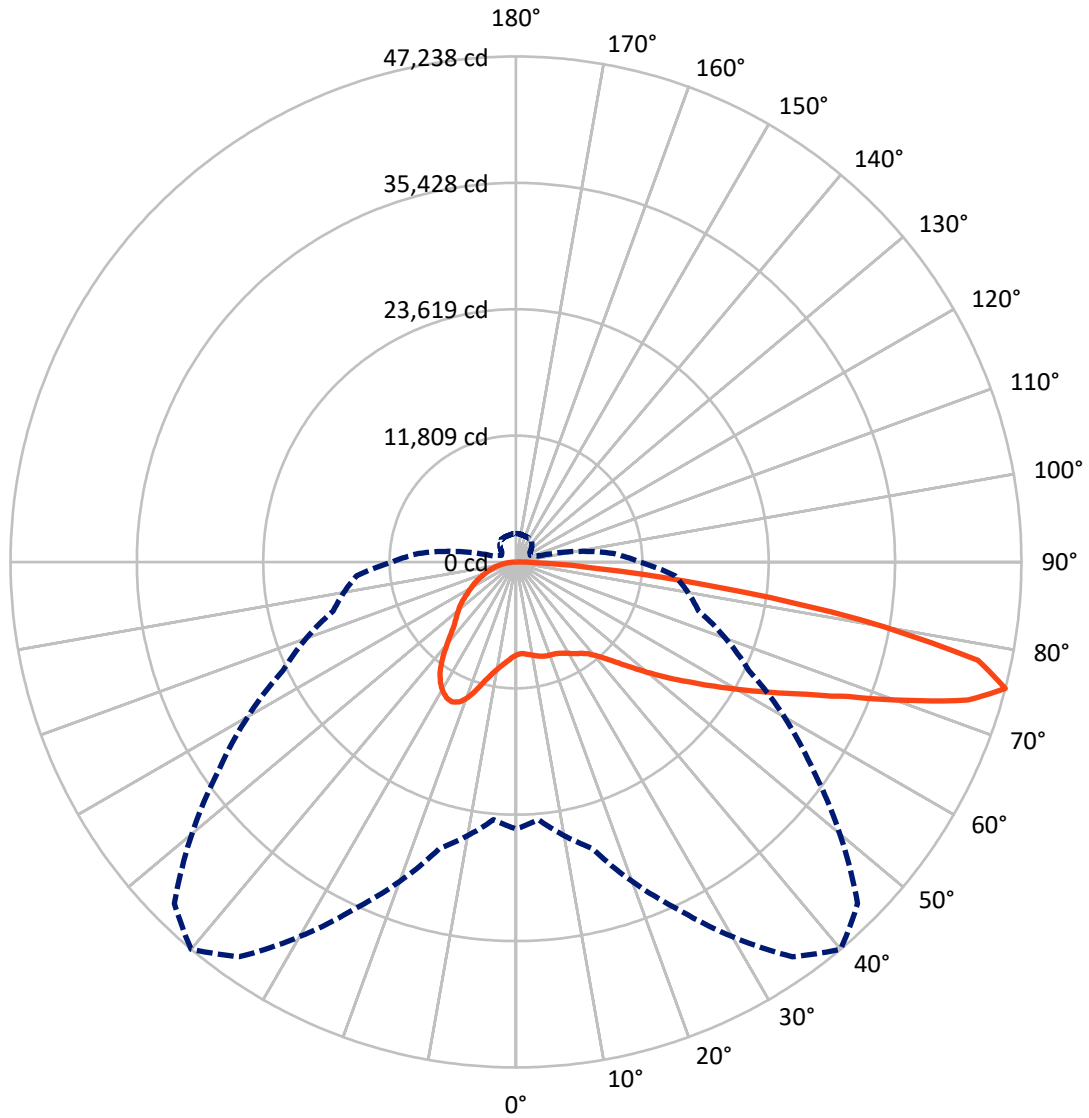
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23514.8	0.0	23514.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	52380.2	0.0	52380.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	75895.0	0.0	75895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	866.3	1.1
10°-20°	2908.6	3.8
20°-30°	5310.8	7.0
30°-40°	7532.2	9.9
40°-50°	10170.7	13.4
50°-60°	13682.3	18.0
60°-70°	17366.0	22.9
70°-80°	15760.7	20.8
80°-90°	2297.4	3.0
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°	75895.0	100.0
0°-180°	75895.0	100.0

Coefficient of Utilization



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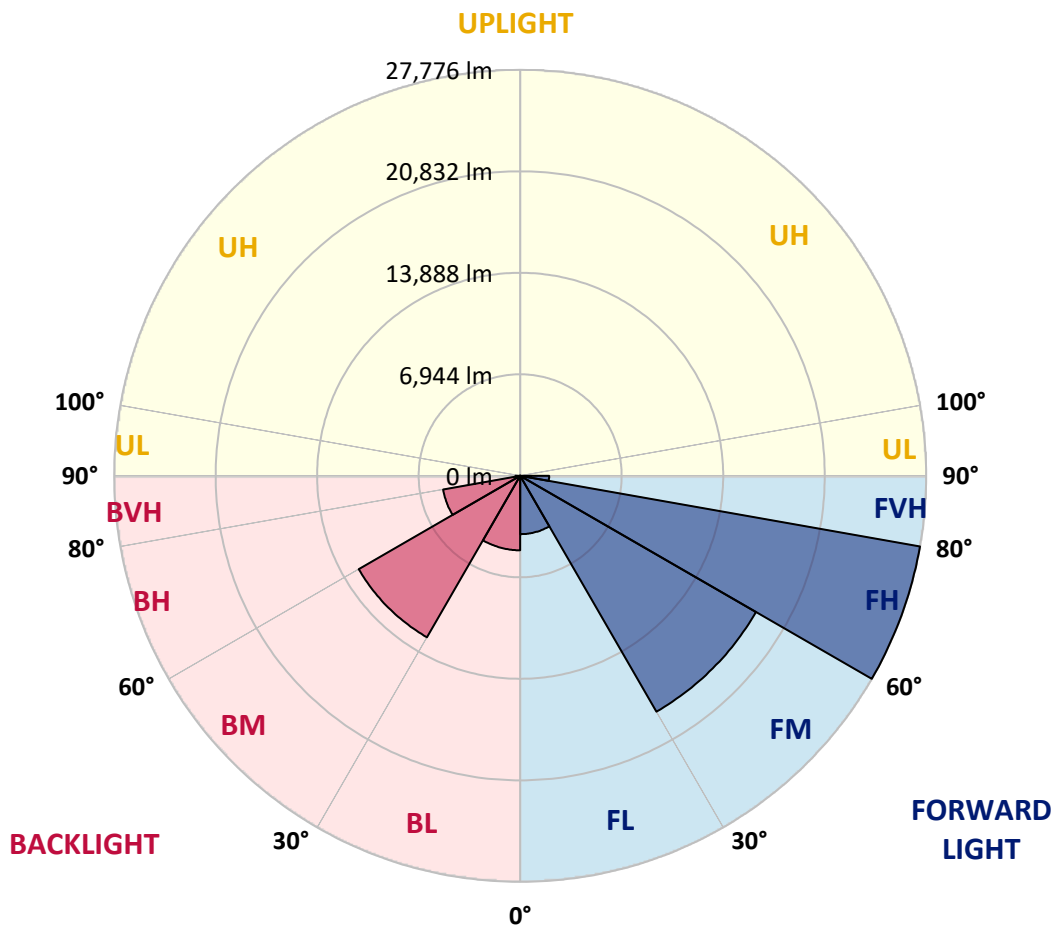
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3992.2	5.3			
FM (30°-60°)	18630.5	24.5			
FH (60°-80°)	27776.4	36.6			G5
FVH (80°-90°)	1981.1	2.6			G5
BL (0°-30°)	5093.5	6.7	B5		
BM (30°-60°)	12754.7	16.8	B5		
BH (60°-80°)	5350.3	7.0	B5		G5
BVH (80°-90°)	316.3	0.4			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	8678.7	8678.7	8678.7	8678.7	8678.7	8678.7	8678.7	8678.7	8678.7	8678.7
2.5°	8545.9	8594.2	8582.1	8566.0	8566.0	8570.0	8566.0	8594.2	8622.3	8650.5
5°	8634.4	8682.7	8658.6	8638.4	8622.3	8618.3	8606.2	8602.2	8618.3	8654.5
7.5°	8807.5	8855.8	8819.6	8783.4	8751.2	8735.0	8718.9	8694.8	8682.7	8702.8
10°	9000.7	9049.0	9004.7	8940.3	8888.0	8867.9	8851.8	8827.6	8811.5	8823.6
12.5°	9193.9	9242.2	9181.9	9093.3	9024.9	9012.8	8992.7	8984.6	8980.6	8976.6
15°	9375.1	9415.3	9338.9	9234.2	9161.7	9141.6	9121.5	9133.6	9153.7	9177.8
17.5°	9516.0	9556.2	9443.5	9306.7	9238.2	9230.2	9218.1	9258.3	9314.7	9375.1
20°	9644.8	9685.0	9540.1	9355.0	9274.4	9274.4	9278.5	9363.0	9443.5	9532.1
22.5°	9825.9	9858.1	9681.0	9427.4	9310.7	9318.7	9350.9	9435.5	9536.1	9656.9
25°	10095.6	10119.8	9902.4	9564.3	9431.4	9455.6	9483.8	9524.0	9620.6	9761.5
27.5°	10530.4	10550.5	10264.7	9805.8	9604.5	9644.8	9685.0	9656.9	9701.1	9821.9
30°	11142.2	11154.3	10792.0	10184.2	9898.4	9918.5	9926.6	9809.8	9725.3	9821.9
32.5°	11866.8	11862.8	11432.0	10643.1	10232.5	10212.4	10143.9	9914.5	9717.2	9801.8
35°	12989.9	12945.6	12390.1	11287.1	10610.9	10486.1	10325.1	10031.2	9757.5	9781.6
37.5°	14849.6	14712.7	13943.9	12341.8	11174.4	10856.4	10618.9	10220.4	9846.1	9773.6
40°	16946.8	16773.7	15928.4	13786.9	12019.8	11508.5	11126.1	10490.1	9991.0	9809.8
42.5°	19434.5	19188.9	18279.2	15489.6	13090.5	12349.8	11774.2	10832.3	10204.3	9926.6
45°	22489.7	22163.7	20875.6	17409.7	14439.0	13452.8	12683.9	11351.5	10530.4	10152.0
47.5°	25577.2	25657.7	23826.2	19607.6	16057.2	14813.4	13823.1	12132.5	11005.4	10514.3
50°	28857.9	28914.2	26760.6	22042.9	17892.8	16351.0	15103.2	13006.0	11665.5	11029.5
52.5°	31418.0	31426.1	29425.4	24591.0	19804.8	18041.7	16483.9	14004.3	12430.3	11713.8
55°	33020.1	33000.0	31293.2	27002.2	22002.7	19816.9	18013.5	15139.4	13364.2	12518.9
57.5°	34183.4	34123.0	32581.3	29075.2	24345.4	21914.1	19744.4	16427.5	14467.2	13476.9
60°	34626.2	34590.0	33454.8	30866.5	26809.0	24232.7	21741.0	17868.6	15719.1	14608.1
62.5°	34795.3	34863.7	34312.2	32601.5	29445.6	26800.9	23934.8	19591.5	17127.9	15888.1
65°	35391.0	35515.8	35403.1	34871.8	32424.3	29807.9	26845.2	21640.4	18665.6	17260.8
67.5°	36570.5	36695.3	36743.6	37588.9	36063.3	33555.5	30476.1	24192.5	20465.0	18685.8
70°	36542.3	36506.1	37359.4	39750.5	40620.0	38744.2	35370.9	27332.3	22610.5	19869.2
72.5°	33261.6	32971.8	34988.5	39726.4	44411.9	44162.3	41348.6	31381.8	24462.2	20014.1
75°	24953.3	24180.4	27742.8	35801.6	45043.9	47237.7	45148.5	33893.6	24023.4	17683.4
77.5°	10671.3	9894.4	14092.8	26503.0	40314.1	44158.3	41662.6	29570.4	19176.9	11693.7
80°	2793.6	2789.6	4258.8	12015.7	27416.8	32609.5	28608.3	19096.3	10957.1	4178.3
82.5°	1155.3	1127.1	1565.9	4673.5	13396.4	18299.3	14934.1	8517.7	3956.9	1131.1
85°	430.7	426.7	760.8	1614.2	4725.8	7547.6	5462.4	2177.7	986.2	551.5
87.5°	120.8	116.7	165.0	559.5	1151.3	1747.0	933.9	358.3	277.8	217.4
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°
8678.7	0°	8678.7	8678.7	8678.7	8678.7	8678.7	8678.7	8678.7	8678.7	8678.7	8678.7
8694.8	2.5°	8706.9	8727.0	8763.2	8791.4	8827.6	8867.9	8924.2	8960.5	8996.7	9020.9
8714.9	5°	8743.1	8787.4	8880.0	8972.5	9081.2	9181.9	9298.6	9383.1	9451.6	9471.7
8787.4	7.5°	8823.6	8896.1	9053.1	9210.0	9383.1	9548.2	9717.2	9862.2	9978.9	10023.2
8916.2	10°	8964.5	9061.1	9282.5	9503.9	9733.3	9986.9	10204.3	10413.6	10578.7	10647.1
9069.2	12.5°	9141.6	9262.4	9552.2	9858.1	10176.1	10526.3	10808.1	11065.7	11271.0	11363.6
9282.5	15°	9371.1	9528.0	9898.4	10309.0	10775.9	11263.0	11621.2	11907.0	12136.5	12249.2
9503.9	17.5°	9620.6	9829.9	10296.9	10916.8	11585.0	12225.0	12643.7	12853.0	13090.5	13199.2
9709.2	20°	9862.2	10119.8	10788.0	11689.7	12579.3	13259.6	13597.7	13654.0	13670.2	13682.2
9902.4	22.5°	10111.7	10457.9	11403.9	12663.8	13617.8	14088.8	14137.1	13895.6	13557.4	13400.5
10091.6	25°	10385.5	10844.3	12208.9	13738.6	14511.5	14567.8	14197.5	13609.8	12969.7	12675.9
10244.6	27.5°	10651.1	11291.2	13175.0	14765.1	15155.5	14660.4	13863.4	13030.1	12257.2	11947.3
10353.2	30°	10916.8	11802.4	14241.8	15662.7	15449.4	14430.9	13336.0	12406.2	11629.3	11303.2
10449.9	32.5°	11186.5	12398.1	15469.5	16310.8	15397.0	13943.9	12679.9	11705.8	11021.5	10679.3
10534.4	35°	11492.4	13130.8	16632.8	16665.0	15046.8	13227.4	11814.5	10868.5	10272.7	9999.0
10635.0	37.5°	11890.9	14060.6	17659.3	16753.6	14435.0	12176.7	10739.7	9878.3	9387.2	9262.4
10784.0	40°	12386.1	15179.7	18444.2	16612.7	13529.3	10900.7	9564.3	8875.9	8598.2	8626.4
10985.2	42.5°	13030.1	16431.6	18995.7	16250.4	12269.3	9584.4	8533.8	8227.9	8360.7	8473.4
11287.1	45°	13867.4	17731.7	19337.9	15634.5	10844.3	8469.4	7926.0	7998.4	8099.0	8111.1
11774.2	47.5°	14938.1	19048.0	19563.3	14704.7	9391.2	7684.4	7539.5	7555.6	7535.5	7451.0
12502.8	50°	16274.6	20328.1	19764.6	13472.9	8155.4	7193.3	7000.1	6943.8	6666.0	6392.3
13472.9	52.5°	17796.2	21503.5	19849.1	11943.3	7193.3	6782.7	6468.8	6114.5	5595.3	5510.7
14692.6	55°	19486.8	22590.4	19631.7	10063.4	6384.2	6255.4	5780.4	5353.7	5297.4	5224.9
16298.7	57.5°	21507.5	23761.7	19188.9	7966.2	5555.0	5639.5	5176.6	5224.9	5124.3	5011.6
18363.7	60°	23717.5	24973.4	18412.0	6054.2	4697.6	4870.7	5019.6	5015.6	4987.4	4894.8
20541.5	62.5°	25706.0	25770.4	16882.4	4637.2	3944.9	4274.9	4681.5	4677.5	4653.3	4601.0
22815.8	65°	26889.5	25649.6	14330.3	3651.0	3325.0	3783.8	4222.6	4254.8	4258.8	4254.8
24526.6	67.5°	26680.1	24236.7	10828.2	2906.3	2813.7	3284.7	3767.7	3812.0	3844.2	3852.3
24743.9	70°	24313.2	21133.2	7060.5	2318.6	2358.9	2845.9	3337.0	3381.3	3409.5	3441.7
21471.3	72.5°	18951.4	15537.9	4041.5	1875.8	1960.4	2467.6	2910.3	2962.7	2978.8	3039.2
14942.2	75°	11548.8	9137.6	2181.7	1477.3	1610.1	2109.3	2487.7	2548.1	2576.2	2648.7
7338.2	77.5°	5490.6	3956.9	1243.8	1151.3	1296.2	1722.9	2101.2	2169.7	2093.2	2133.4
2024.8	80°	1855.7	1469.3	784.9	877.5	990.2	1344.5	1682.6	1751.0	1590.0	1582.0
672.2	82.5°	648.1	595.8	499.1	583.7	640.0	962.1	1272.0	1360.6	1183.5	1179.4
301.9	85°	253.6	241.5	277.8	318.0	382.4	591.7	837.3	881.6	728.6	587.7
88.6	87.5°	52.3	56.4	68.4	72.5	116.7	205.3	301.9	370.3	293.9	249.6
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°
8678.7
9004.7
9479.7
10027.2
10651.1
11363.6
12241.1
13195.2
13714.4
13444.7
12720.2
11983.5
11339.5
10723.6
10059.4
9350.9
8723.0
8578.1
8191.6
7515.4
6428.5
5538.9
5237.0
4991.5
4862.6
4580.9
4254.8
3860.3
3457.8
3063.3
2656.7
2101.2
1565.9
1123.1
579.7
229.4
0.0

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