

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: P944692

Luminaire Tested: **GALN-SB9D-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944692
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-SB9D-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 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: 91878 lumens
Efficiency: N/A
Efficacy: 139.6 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

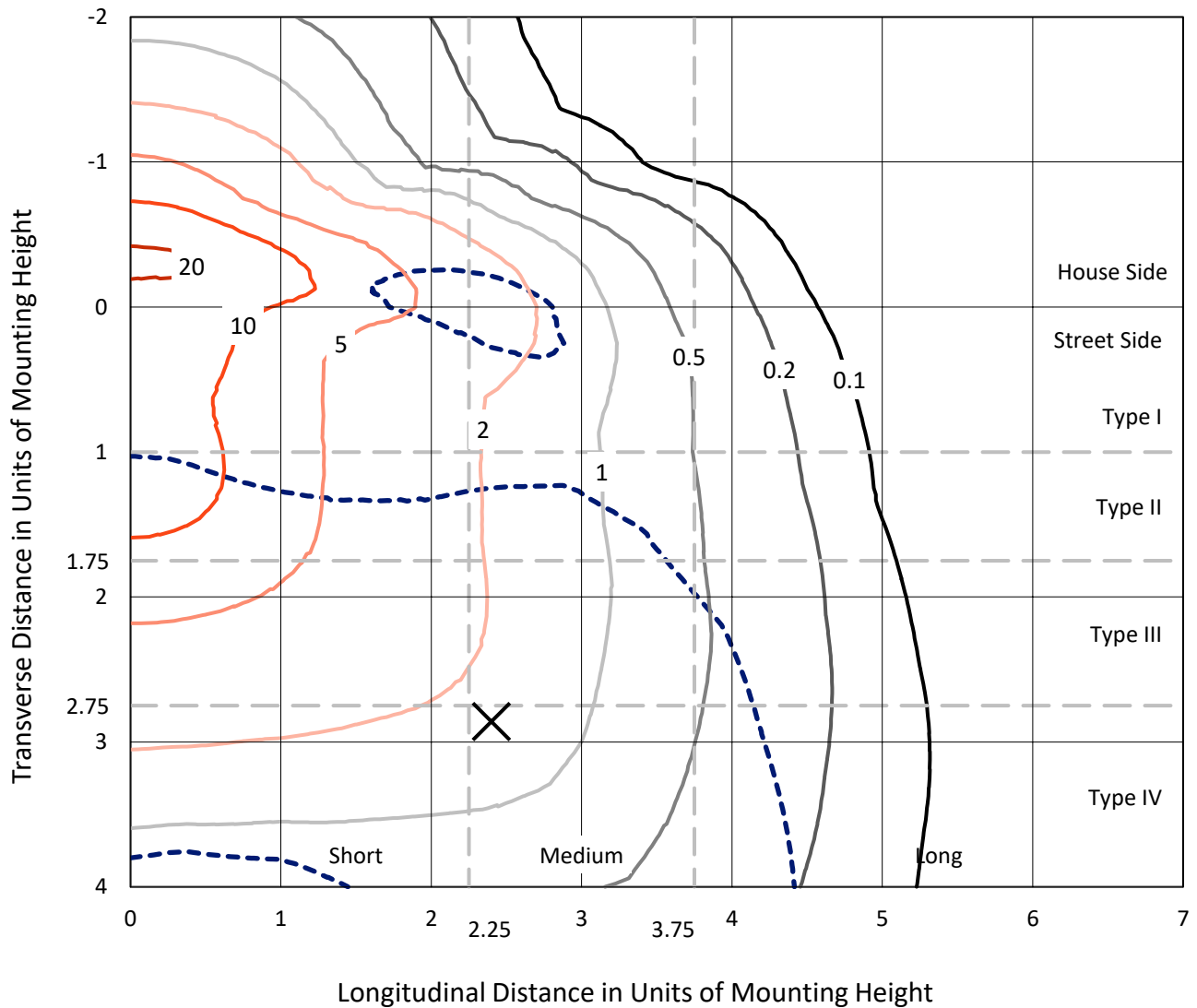
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

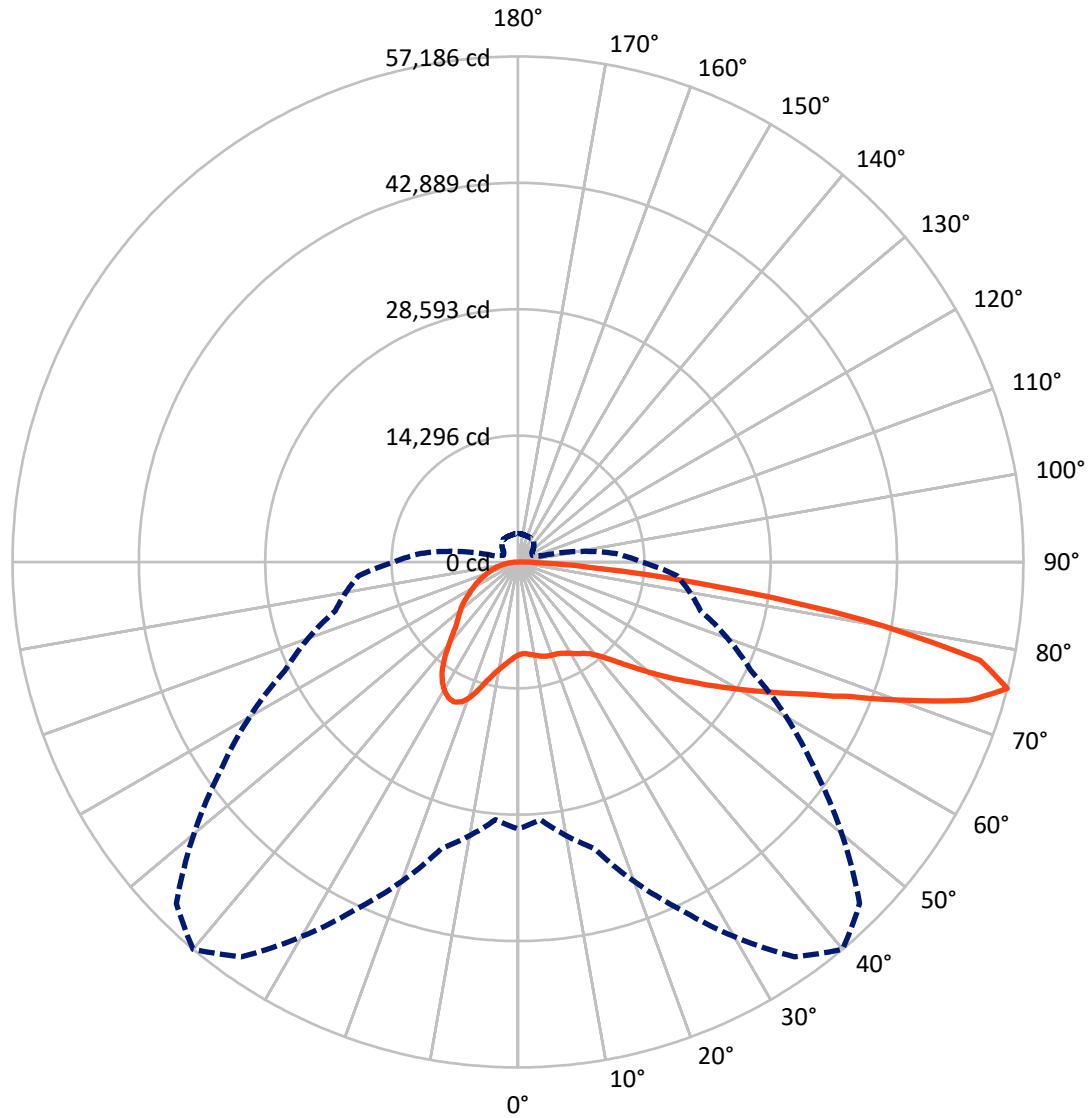
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 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	28466.9	0.0	28466.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	63411.1	0.0	63411.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	91878.0	0.0	91878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1048.7	1.1
10°-20°	3521.1	3.8
20°-30°	6429.2	7.0
30°-40°	9118.4	9.9
40°-50°	12312.6	13.4
50°-60°	16563.7	18.0
60°-70°	21023.2	22.9
70°-80°	19079.8	20.8
80°-90°	2781.2	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°	91878.0	100.0
0°-180°	91878.0	100.0

Coefficient of Utilization



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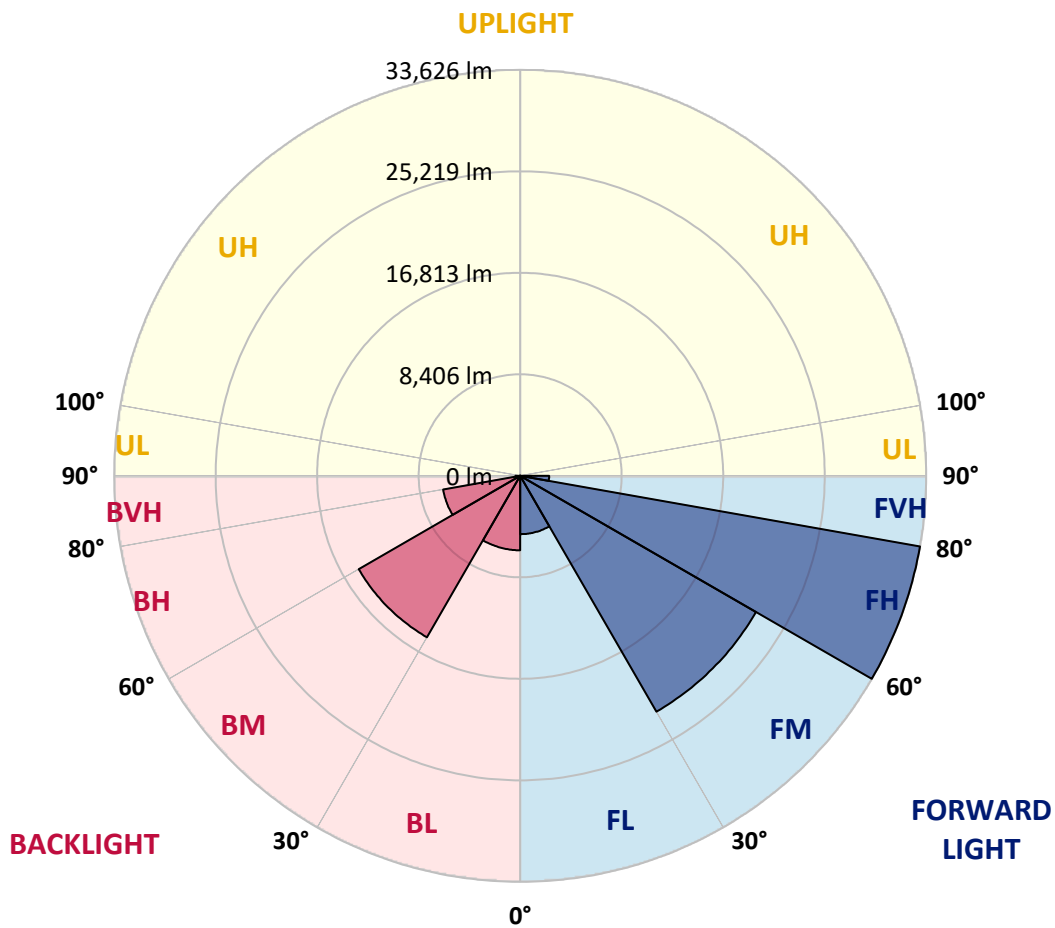
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4832.9	5.3			
FM (30°-60°)	22554.0	24.5			
FH (60°-80°)	33625.9	36.6			G5
FVH (80°-90°)	2398.3	2.6			G5
BL (0°-30°)	6166.2	6.7	B5		
BM (30°-60°)	15440.7	16.8	B5		
BH (60°-80°)	6477.1	7.0	B5		G5
BVH (80°-90°)	382.9	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°	10506.4	10506.4	10506.4	10506.4	10506.4	10506.4	10506.4	10506.4	10506.4	10506.4
2.5°	10345.6	10404.0	10389.4	10369.9	10369.9	10374.8	10369.9	10404.0	10438.1	10472.3
5°	10452.8	10511.2	10482.0	10457.6	10438.1	10433.3	10418.7	10413.8	10433.3	10477.1
7.5°	10662.3	10720.8	10676.9	10633.1	10594.1	10574.6	10555.1	10525.9	10511.2	10535.6
10°	10896.2	10954.7	10901.1	10823.1	10759.8	10735.4	10715.9	10686.7	10667.2	10681.8
12.5°	11130.1	11188.6	11115.5	11008.3	10925.5	10910.8	10886.5	10876.7	10871.9	10867.0
15°	11349.4	11398.1	11305.6	11178.9	11091.1	11066.8	11042.4	11057.0	11081.4	11110.6
17.5°	11520.0	11568.7	11432.3	11266.6	11183.7	11174.0	11159.4	11208.1	11276.3	11349.4
20°	11675.9	11724.6	11549.2	11325.1	11227.6	11227.6	11232.5	11334.8	11432.3	11539.5
22.5°	11895.2	11934.2	11719.8	11412.8	11271.4	11281.2	11320.2	11422.5	11544.3	11690.5
25°	12221.7	12250.9	11987.8	11578.5	11417.6	11446.9	11481.0	11529.7	11646.7	11817.2
27.5°	12748.0	12772.4	12426.4	11870.8	11627.2	11675.9	11724.6	11690.5	11744.1	11890.3
30°	13488.7	13503.3	13064.7	12328.9	11982.9	12007.3	12017.0	11875.7	11773.4	11890.3
32.5°	14365.9	14361.0	13839.6	12884.4	12387.4	12363.0	12280.2	12002.4	11763.6	11866.0
35°	15725.4	15671.8	14999.4	13664.1	12845.5	12694.4	12499.5	12143.7	11812.4	11841.6
37.5°	17976.8	17811.1	16880.4	14940.9	13527.7	13142.7	12855.2	12372.8	11919.6	11831.9
40°	20515.7	20306.1	19282.8	16690.3	14551.0	13932.2	13469.2	12699.3	12095.0	11875.7
42.5°	23527.3	23230.0	22128.7	18751.6	15847.3	14950.6	14253.8	13113.5	12353.3	12017.0
45°	27225.9	26831.2	25271.8	21076.1	17479.8	16285.9	15355.1	13742.1	12748.0	12289.9
47.5°	30963.6	31061.0	28843.8	23736.8	19438.7	17933.0	16734.2	14687.5	13323.0	12728.5
50°	34935.1	35003.4	32396.3	26685.0	21660.9	19794.5	18283.8	15744.9	14122.2	13352.3
52.5°	38034.4	38044.2	35622.3	29769.7	23975.6	21841.2	19955.3	16953.5	15048.1	14180.7
55°	39973.9	39949.6	37883.4	32688.7	26636.3	23990.2	21807.1	18327.7	16178.6	15155.3
57.5°	41382.2	41309.1	39442.8	35198.3	29472.4	26529.1	23902.5	19887.1	17513.9	16315.1
60°	41918.3	41874.4	40500.2	37366.8	32454.7	29336.0	26319.5	21631.6	19029.4	17684.4
62.5°	42122.9	42205.8	41538.2	39467.1	35646.6	32445.0	28975.4	23717.3	20735.0	19234.1
65°	42844.2	42995.2	42858.8	42215.5	39252.7	36085.2	32498.6	26197.7	22596.5	20895.8
67.5°	44272.0	44423.0	44481.5	45504.9	43658.0	40622.0	36894.1	29287.2	24774.8	22620.9
70°	44237.9	44194.0	45227.1	48121.7	49174.3	46903.4	42819.8	33088.2	27372.1	24053.5
72.5°	40266.3	39915.4	42356.9	48092.5	53764.7	53462.6	50056.3	37990.6	29613.7	24229.0
75°	30208.3	29272.6	33585.3	43341.2	54529.8	57185.7	54656.5	41031.4	29082.6	21407.5
77.5°	12918.5	11978.0	17060.7	32084.4	48803.9	53457.7	50436.4	35797.7	23215.4	14156.3
80°	3381.9	3377.0	5155.7	14546.2	33190.6	39476.9	34633.0	23117.9	13264.5	5058.3
82.5°	1398.6	1364.5	1895.6	5657.7	16217.6	22153.0	18079.1	10311.4	4790.2	1369.3
85°	521.4	516.5	921.0	1954.1	5721.0	9137.0	6612.8	2636.3	1193.9	667.6
87.5°	146.2	141.3	199.8	677.4	1393.7	2114.9	1130.6	433.7	336.2	263.1
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°
10506.4	0°	10506.4	10506.4	10506.4	10506.4	10506.4	10506.4	10506.4	10506.4	10506.4	10506.4
10525.9	2.5°	10540.5	10564.8	10608.7	10642.8	10686.7	10735.4	10803.6	10847.5	10891.3	10920.6
10550.2	5°	10584.3	10637.9	10750.0	10862.1	10993.7	11115.5	11256.8	11359.2	11442.0	11466.4
10637.9	7.5°	10681.8	10769.5	10959.6	11149.6	11359.2	11559.0	11763.6	11939.1	12080.4	12134.0
10793.9	10°	10852.4	10969.3	11237.3	11505.4	11783.1	12090.1	12353.3	12606.7	12806.5	12889.3
10979.1	12.5°	11066.8	11213.0	11563.8	11934.2	12319.2	12743.1	13084.2	13396.1	13644.6	13756.7
11237.3	15°	11344.5	11534.6	11982.9	12480.0	13045.2	13634.9	14068.6	14414.6	14692.4	14828.8
11505.4	17.5°	11646.7	11900.1	12465.4	13215.8	14024.7	14799.6	15306.4	15559.8	15847.3	15978.8
11753.9	20°	11939.1	12250.9	13059.9	14151.4	15228.4	16051.9	16461.3	16529.5	16549.0	16563.6
11987.8	22.5°	12241.2	12660.3	13805.5	15330.7	16485.6	17055.8	17114.3	16821.9	16412.6	16222.5
12216.8	25°	12572.6	13128.1	14780.1	16631.8	17567.5	17635.7	17187.4	16475.9	15701.1	15345.3
12402.0	27.5°	12894.2	13669.0	15949.6	17874.5	18347.2	17747.8	16782.9	15774.2	14838.5	14463.3
12533.6	30°	13215.8	14287.9	17241.0	18961.2	18702.9	17470.0	16144.5	15018.8	14078.3	13683.6
12650.5	32.5°	13542.3	15009.1	18727.3	19745.7	18639.6	16880.4	15350.2	14170.9	13342.5	12928.3
12752.9	35°	13912.7	15896.0	20135.6	20174.6	18215.6	16013.0	14302.5	13157.3	12436.1	12104.7
12874.7	37.5°	14395.1	17021.7	21378.2	20281.8	17474.9	14741.1	13001.4	11958.6	11364.0	11213.0
13055.0	40°	14994.5	18376.4	22328.5	20111.2	16378.4	13196.3	11578.5	10745.2	10408.9	10443.0
13298.6	42.5°	15774.2	19891.9	22996.1	19672.6	14853.2	11602.8	10330.9	9960.6	10121.4	10257.8
13664.1	45°	16787.8	21465.9	23410.3	18927.1	13128.1	10253.0	9595.1	9682.8	9804.6	9819.3
14253.8	47.5°	18084.0	23059.4	23683.2	17801.4	11368.9	9302.7	9127.3	9146.8	9122.4	9020.1
15135.8	50°	19701.9	24609.1	23926.8	16310.2	9872.9	8708.2	8474.3	8406.1	8069.8	7738.5
16310.2	52.5°	21543.9	26032.0	24029.2	14458.4	8708.2	8211.1	7831.0	7402.2	6773.6	6671.3
17786.8	55°	23590.6	27347.8	23766.0	12182.7	7728.7	7572.8	6997.8	6481.2	6413.0	6325.3
19731.1	57.5°	26036.9	28765.8	23230.0	9643.8	6724.9	6827.2	6266.8	6325.3	6203.4	6067.0
22231.0	60°	28712.2	30232.6	22289.5	7329.1	5686.9	5896.4	6076.7	6071.9	6037.8	5925.7
24867.4	62.5°	31119.5	31197.5	20437.7	5613.8	4775.6	5175.2	5667.4	5662.5	5633.3	5569.9
27620.6	65°	32552.2	31051.3	17348.2	4419.9	4025.2	4580.7	5111.9	5150.9	5155.7	5150.9
29691.7	67.5°	32298.8	29340.8	13108.6	3518.4	3406.3	3976.4	4561.2	4614.8	4653.8	4663.5
29954.9	70°	29433.4	25583.7	8547.4	2806.9	2855.6	3445.3	4039.8	4093.4	4127.5	4166.5
25993.0	72.5°	22942.5	18810.1	4892.6	2270.9	2373.2	2987.2	3523.2	3586.6	3606.1	3679.2
18088.9	75°	13980.9	11061.9	2641.2	1788.4	1949.2	2553.5	3011.6	3084.7	3118.8	3206.5
8883.6	77.5°	6646.9	4790.2	1505.8	1393.7	1569.1	2085.7	2543.8	2626.6	2534.0	2582.7
2451.2	80°	2246.5	1778.7	950.3	1062.3	1198.8	1627.6	2036.9	2119.8	1924.9	1915.1
813.8	82.5°	784.6	721.2	604.3	706.6	774.8	1164.7	1539.9	1647.1	1432.7	1427.8
365.5	85°	307.0	292.4	336.2	385.0	462.9	716.3	1013.6	1067.2	882.0	711.5
107.2	87.5°	63.4	68.2	82.8	87.7	141.3	248.5	365.5	448.3	355.7	302.1
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°
10506.4
10901.1
11476.1
12138.9
12894.2
13756.7
14819.1
15974.0
16602.6
16276.1
15398.9
14507.2
13727.5
12981.9
12177.8
11320.2
10560.0
10384.5
9916.7
9098.1
7782.3
6705.4
6339.9
6042.6
5886.7
5545.6
5150.9
4673.3
4186.0
3708.4
3216.2
2543.8
1895.6
1359.6
701.7
277.8
0.0

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