

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: P943337

Luminaire Tested: **GALN-SB7D-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943337
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-SB7D-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72418 lumens
Efficiency: N/A
Efficacy: 141.2 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

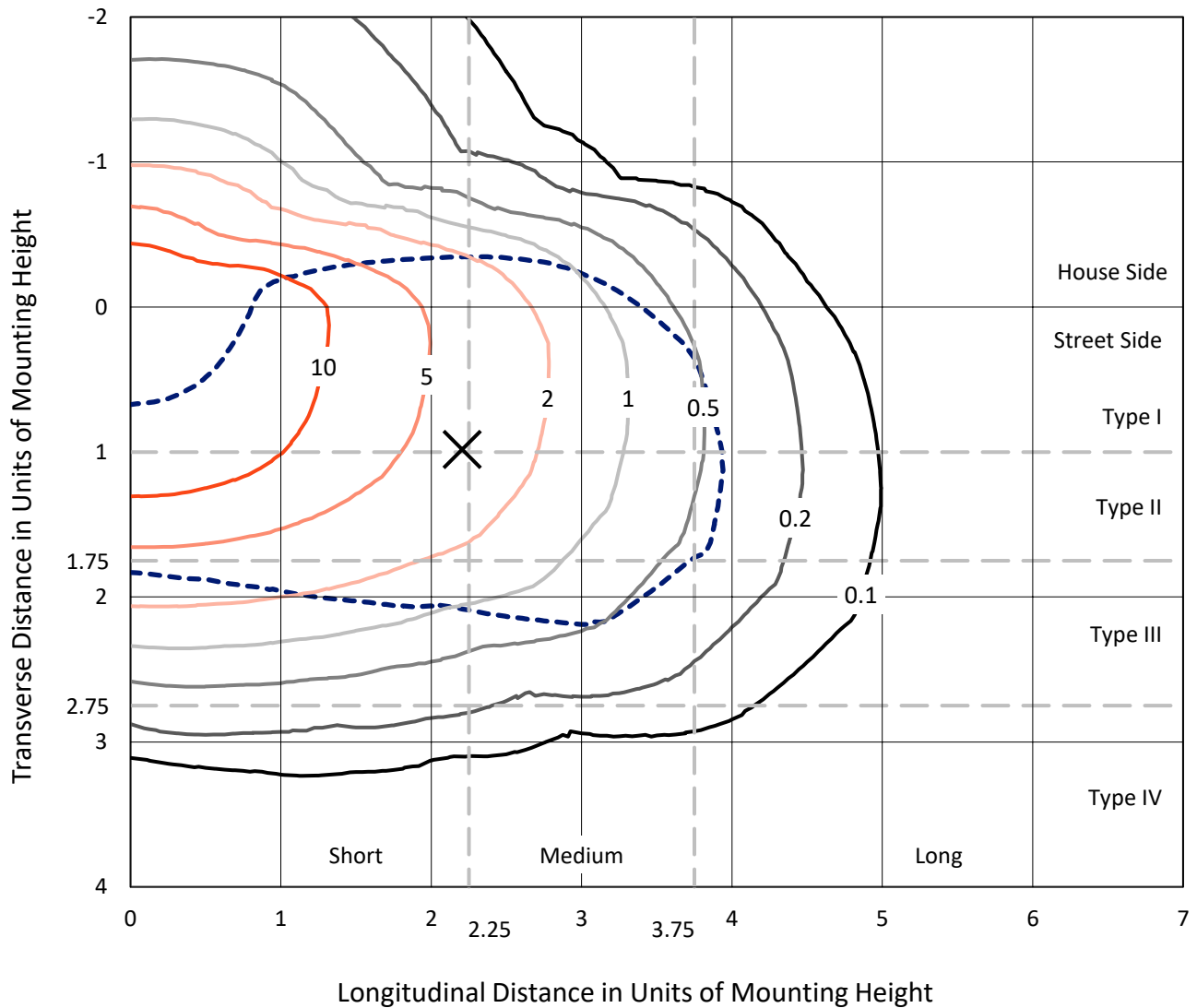
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

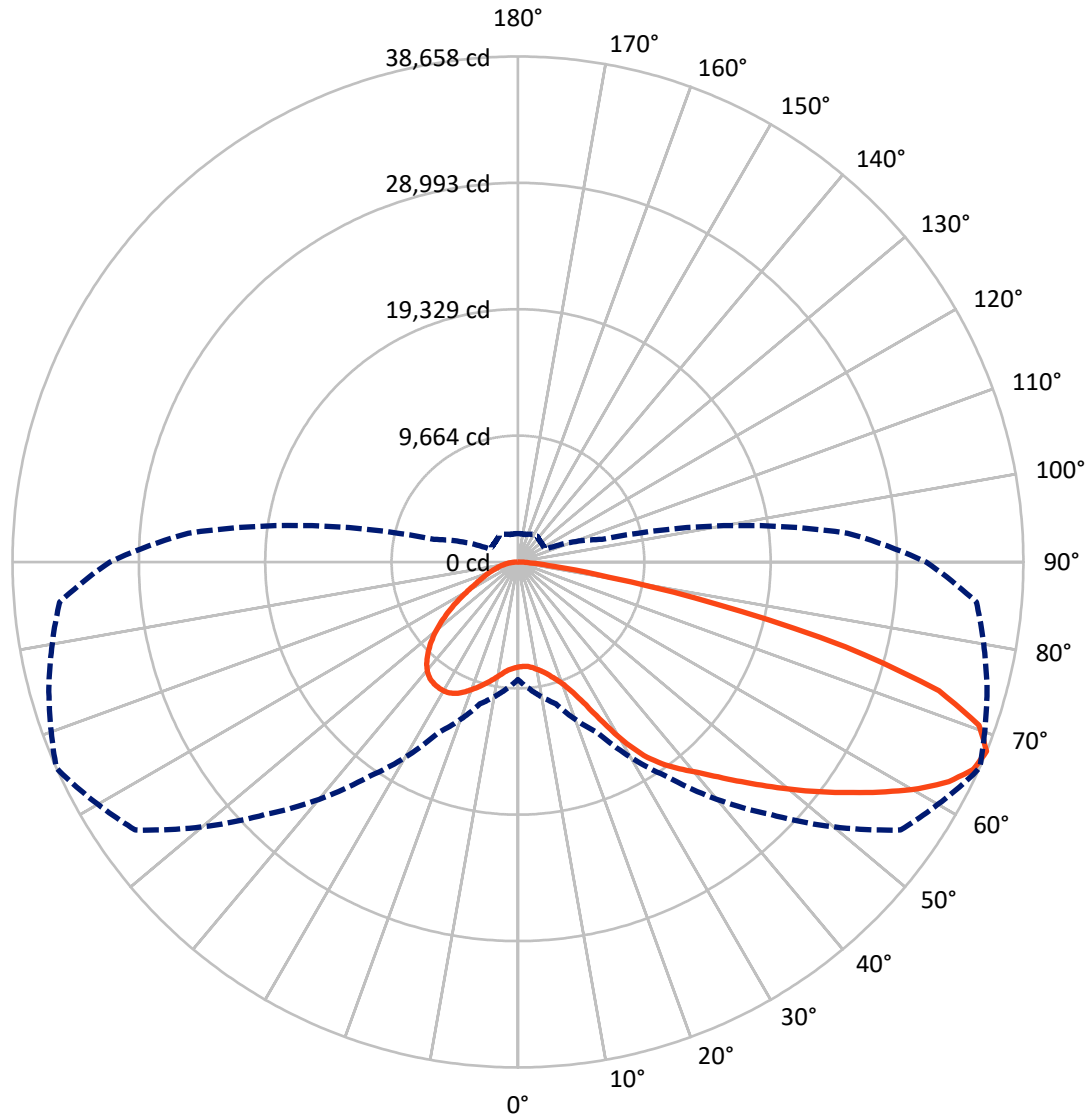
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18006.5	0.0	18006.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	54411.5	0.0	54411.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	72418.0	0.0	72418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.3	1.1
10°-20°	2631.0	3.6
20°-30°	5071.2	7.0
30°-40°	8891.7	12.3
40°-50°	13219.0	18.3
50°-60°	16756.4	23.1
60°-70°	16395.7	22.6
70°-80°	7820.9	10.8
80°-90°	835.8	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°	72418.0	100.0
0°-180°	72418.0	100.0

Coefficient of Utilization



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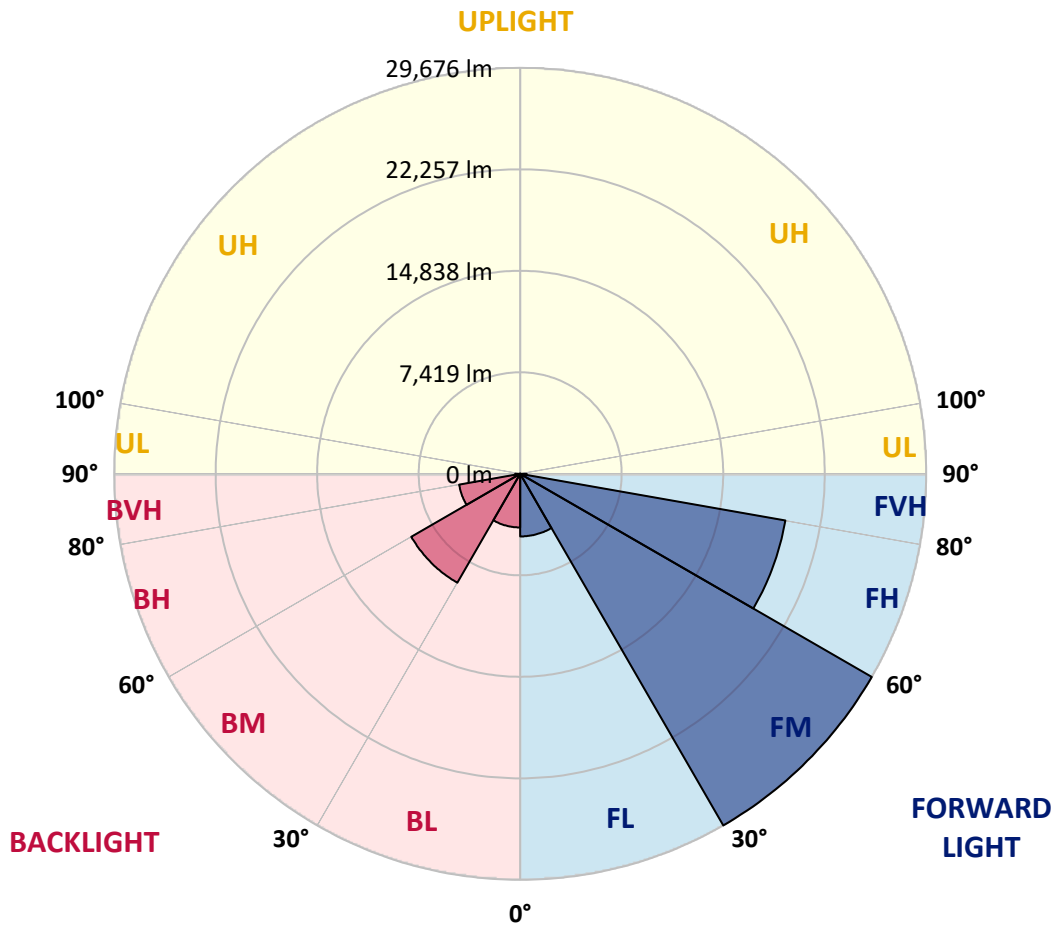
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4576.1	6.3			
FM (30°-60°)	29676.3	41.0			
FH (60°-80°)	19685.2	27.2			G5
FVH (80°-90°)	473.9	0.7			G3/500
BL (0°-30°)	3922.5	5.4	B4/5000		
BM (30°-60°)	9190.7	12.7	B5		
BH (60°-80°)	4531.4	6.3	B4/5000		G4/5000
BVH (80°-90°)	362.0	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°	8032.1	8032.1	8032.1	8032.1	8032.1	8032.1	8032.1	8032.1	8032.1	8032.1
2.5°	7948.4	7994.1	7982.6	7963.6	7959.8	7967.4	7978.8	7990.3	7986.5	8005.5
5°	7925.6	7971.2	7967.4	7967.4	7982.6	8013.1	8032.1	8051.1	8032.1	8054.9
7.5°	7940.8	7975.0	7990.3	8005.5	8043.5	8100.6	8146.3	8188.1	8165.3	8191.9
10°	8134.8	8161.5	8176.7	8176.7	8203.3	8268.0	8313.7	8389.8	8370.7	8412.6
12.5°	8488.7	8515.3	8515.3	8500.1	8519.1	8561.0	8576.2	8659.9	8625.7	8694.2
15°	8922.5	8975.7	8933.9	8907.2	8914.8	8956.7	8952.9	9017.6	8983.3	9040.4
17.5°	9401.9	9470.4	9401.9	9398.1	9382.8	9428.5	9432.3	9489.4	9428.5	9470.4
20°	9968.8	10063.9	10006.8	10025.9	9991.6	10010.7	10029.7	10113.4	10018.3	10048.7
22.5°	10767.8	10882.0	10821.1	10893.4	10870.6	10855.3	10851.5	10999.9	10851.5	10862.9
25°	11932.1	12069.1	11962.6	12061.5	12061.5	12111.0	12168.0	12358.3	12111.0	12038.7
27.5°	13651.9	13788.9	13579.6	13640.5	13621.5	13743.2	13682.4	14154.2	13887.8	13769.9
30°	15721.8	15965.3	15569.6	15554.4	15535.3	15729.4	15816.9	16128.9	15858.8	15740.8
32.5°	17959.1	18214.0	17742.2	17605.2	17532.9	17650.9	17578.6	17829.7	17643.3	17460.6
35°	20325.7	20576.8	20127.8	19861.5	19572.3	19325.0	19066.3	19131.0	18955.9	18678.2
37.5°	22563.0	23023.4	22547.8	22262.4	21729.7	21246.5	20523.6	20223.0	20059.4	19804.4
40°	24842.1	25104.6	24743.2	24499.7	23921.3	23164.1	22007.5	21372.0	21151.4	20904.0
42.5°	26520.1	26771.2	26577.1	26409.7	25956.9	25078.0	23582.7	22787.5	22467.8	22190.1
45°	27851.8	28038.2	27916.4	27977.3	27783.3	26931.0	25215.0	24305.6	23974.6	23635.9
47.5°	28388.3	28586.1	28780.2	29141.6	29472.6	28844.8	26969.0	25949.3	25599.3	25253.0
50°	28327.4	28529.0	29092.2	29860.7	30888.1	30678.8	28818.2	27699.6	27376.2	26980.4
52.5°	27840.3	28068.6	28791.6	30070.0	31706.1	32052.4	30701.6	29506.9	29202.5	28730.7
55°	26561.9	26698.9	27783.3	29594.4	31900.2	33011.2	32547.0	31432.2	31127.8	30469.5
57.5°	24191.5	24389.3	25968.3	28312.2	31413.1	33661.8	34167.9	33456.4	33163.4	32216.0
60°	21098.1	21413.9	23221.2	26158.6	30172.7	33658.0	35640.4	35446.3	35202.8	33935.8
62.5°	17597.6	17962.9	19701.7	23114.7	28004.0	32703.0	36561.1	37112.9	36987.3	35522.4
65°	13515.0	13766.1	15497.3	19176.6	24629.0	30652.2	36667.7	38250.5	38273.3	36728.6
67.5°	8998.6	9721.5	11224.4	14390.1	20108.8	27300.1	35731.7	38437.0	38657.6	37143.3
70°	4390.8	5342.1	6814.5	9352.4	14390.1	22159.7	33285.1	36907.4	37398.2	35933.3
72.5°	1822.5	2130.7	2933.6	4615.3	8260.4	14953.2	28369.2	32760.1	33669.4	31839.3
75°	1229.0	1331.7	1678.0	2366.6	3763.0	7373.9	20458.9	24427.4	25892.2	24046.9
77.5°	947.4	1012.1	1221.4	1655.1	2237.3	2789.0	10950.5	14721.1	15478.3	14329.2
80°	745.8	795.2	913.2	1206.1	1586.6	1491.5	3732.6	6670.0	7107.5	5962.3
82.5°	646.8	665.9	654.4	818.1	1054.0	871.3	1225.2	2461.8	2716.7	1970.9
85°	468.0	521.3	544.1	506.0	559.3	441.4	502.2	871.3	958.8	856.1
87.5°	190.2	281.6	346.2	327.2	205.5	125.6	156.0	254.9	293.0	319.6
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°
8032.1	0°	8032.1	8032.1	8032.1	8032.1	8032.1	8032.1	8032.1	8032.1	8032.1	8032.1
8035.9	2.5°	8039.7	8066.4	8085.4	8108.2	8123.4	8146.3	8191.9	8218.6	8222.4	8241.4
8096.8	5°	8112.0	8150.1	8191.9	8252.8	8321.3	8378.4	8465.9	8526.7	8549.6	8568.6
8245.2	7.5°	8268.0	8321.3	8397.4	8503.9	8602.8	8678.9	8785.5	8857.8	8930.1	8956.7
8481.1	10°	8500.1	8576.2	8686.6	8831.1	8937.7	9036.6	9146.9	9207.8	9280.1	9310.6
8762.7	12.5°	8789.3	8869.2	9013.8	9215.4	9314.4	9382.8	9420.9	9405.7	9420.9	9447.5
9101.3	15°	9120.3	9207.8	9371.4	9588.3	9656.8	9595.9	9512.2	9436.1	9424.7	9432.3
9512.2	17.5°	9512.2	9576.9	9767.1	9949.8	9900.3	9649.2	9466.6	9344.8	9283.9	9264.9
10037.3	20°	10060.1	10060.1	10216.1	10330.3	9999.2	9573.1	9287.7	9089.9	8964.3	8911.0
10752.6	22.5°	10726.0	10665.1	10764.0	10684.1	9980.2	9360.0	8964.3	8621.9	8431.6	8355.5
11753.3	25°	11570.7	11498.4	11471.7	10977.1	9843.2	9021.4	8378.4	7963.6	7796.2	7754.4
13195.3	27.5°	12845.3	12662.7	12316.4	11136.9	9592.1	8488.7	7693.5	7309.2	7214.1	7217.9
15048.3	30°	14542.3	14177.0	13328.5	11163.5	9181.2	7735.3	6993.4	6719.4	6673.8	6692.8
16604.5	32.5°	16113.7	15767.4	14363.4	11041.8	8549.6	6997.2	6365.6	6182.9	6114.5	6137.3
17791.6	35°	17346.5	17251.4	15322.3	10870.6	7773.4	6304.7	5802.5	5646.5	5513.3	5482.8
18910.3	37.5°	18510.8	18472.7	16041.4	10630.9	7004.8	5813.9	5349.7	5144.2	4950.2	4843.6
20146.9	40°	19789.2	19751.2	16513.2	10261.8	6323.7	5387.7	4942.5	4672.4	4432.7	4238.6
21547.1	42.5°	21227.5	21003.0	16737.7	9732.9	5745.4	5026.3	4611.5	4246.3	3930.4	3751.6
23129.9	45°	22798.9	22292.8	16733.9	9059.4	5258.4	4695.2	4257.7	3740.2	3447.2	3279.8
24754.6	47.5°	24465.4	23525.6	16528.4	8313.7	4786.5	4330.0	3709.8	3314.1	3120.0	3017.3
26520.1	50°	26185.2	24678.5	16178.4	7457.6	4303.3	3915.2	3367.3	3097.2	2948.8	2853.7
28270.3	52.5°	27802.3	25724.8	15756.0	6487.3	3812.5	3511.9	3215.1	3005.9	2849.9	2743.3
29967.3	55°	29305.2	26626.6	15158.7	5494.3	3413.0	3241.8	3142.8	2967.8	2789.0	2663.4
31690.9	57.5°	30640.7	27212.5	14127.5	4562.1	3127.6	3055.3	3066.7	2903.1	2697.7	2591.1
33387.9	60°	31751.8	27642.5	12601.8	3698.3	2895.5	2872.7	2948.8	2781.4	2541.7	2419.9
34822.3	62.5°	32417.6	27634.9	10729.8	3028.7	2697.7	2705.3	2792.8	2629.2	2385.7	2271.5
35571.9	65°	32360.6	26957.6	8675.1	2591.1	2507.4	2515.0	2629.2	2461.8	2256.3	2187.8
35195.2	67.5°	31215.3	25306.3	6654.7	2305.8	2298.2	2332.4	2465.6	2347.6	2176.4	2168.8
32950.3	70°	28114.3	21878.1	4794.2	2077.5	2081.3	2130.7	2305.8	2275.3	2134.5	2149.8
27703.4	72.5°	22543.9	16680.6	3218.9	1837.8	1841.6	1921.5	2153.6	2218.2	2092.7	2294.3
19656.0	75°	15014.1	10402.6	2069.9	1582.8	1586.6	1689.4	2020.4	2107.9	1978.5	2286.7
10227.5	77.5°	7214.1	4676.2	1499.1	1331.7	1331.7	1426.8	1746.4	1887.2	1685.6	1776.9
3287.4	80°	2492.2	1757.9	1179.5	1073.0	1050.1	1114.8	1472.5	1636.1	1453.5	1339.3
1073.0	82.5°	981.7	913.2	947.4	833.3	757.2	799.0	1145.3	1350.7	1069.2	966.4
605.0	85°	563.1	593.6	669.7	551.7	437.6	490.8	840.9	970.2	806.6	711.5
197.9	87.5°	152.2	209.3	308.2	285.4	197.9	209.3	399.5	536.5	464.2	357.7
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°
8032.1
8237.6
8564.8
8960.5
9325.8
9455.1
9458.9
9291.5
8899.6
8344.1
7762.0
7229.3
6757.5
6167.7
5505.7
4847.4
4257.7
3763.0
3272.2
2994.4
2819.4
2697.7
2614.0
2522.6
2366.6
2237.3
2184.0
2180.2
2146.0
2324.8
2305.8
1628.5
1255.6
962.6
726.7
369.1
0.0

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