

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: P940615

Luminaire Tested: **GALN-SB3D-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3D-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30252 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

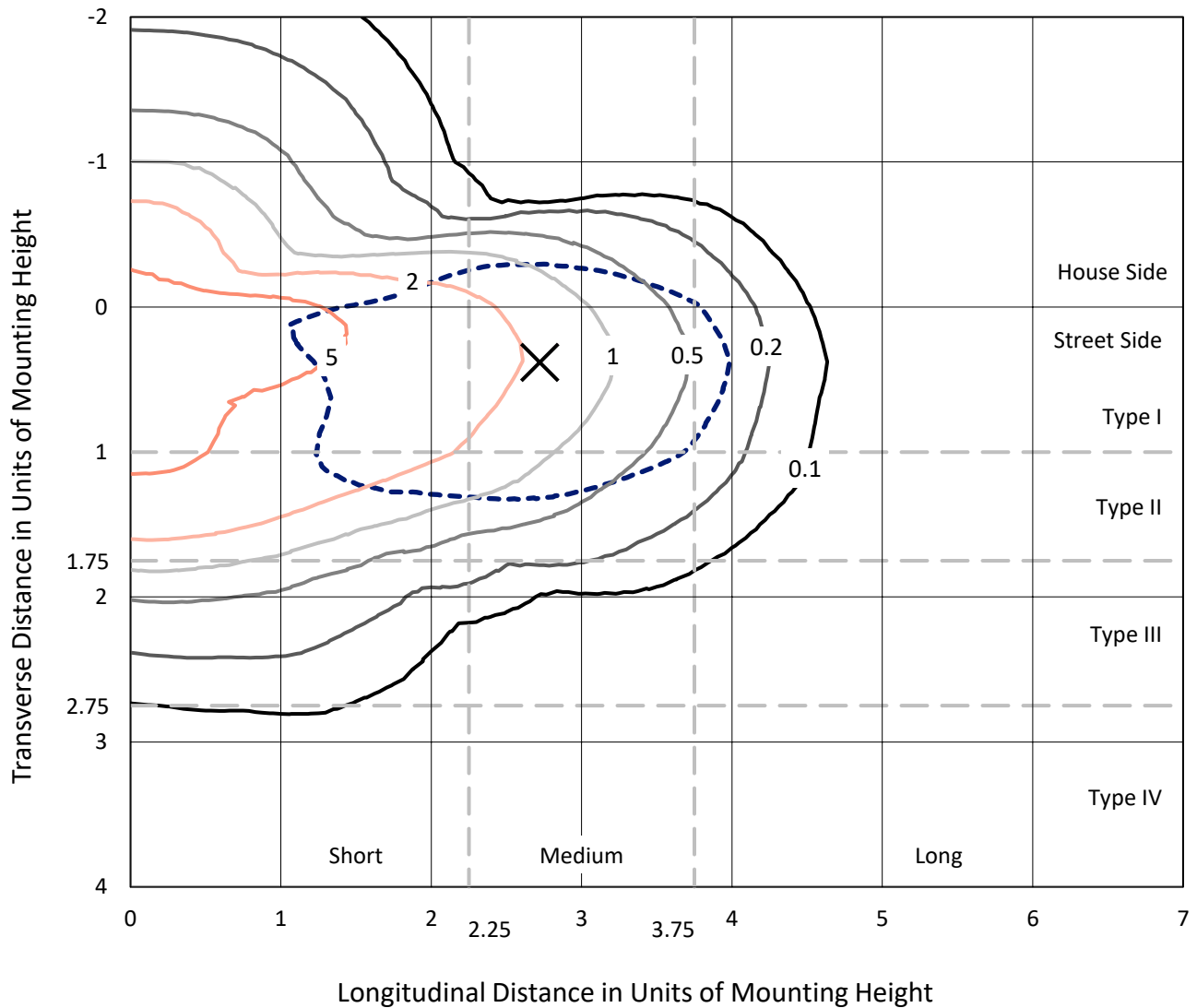
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

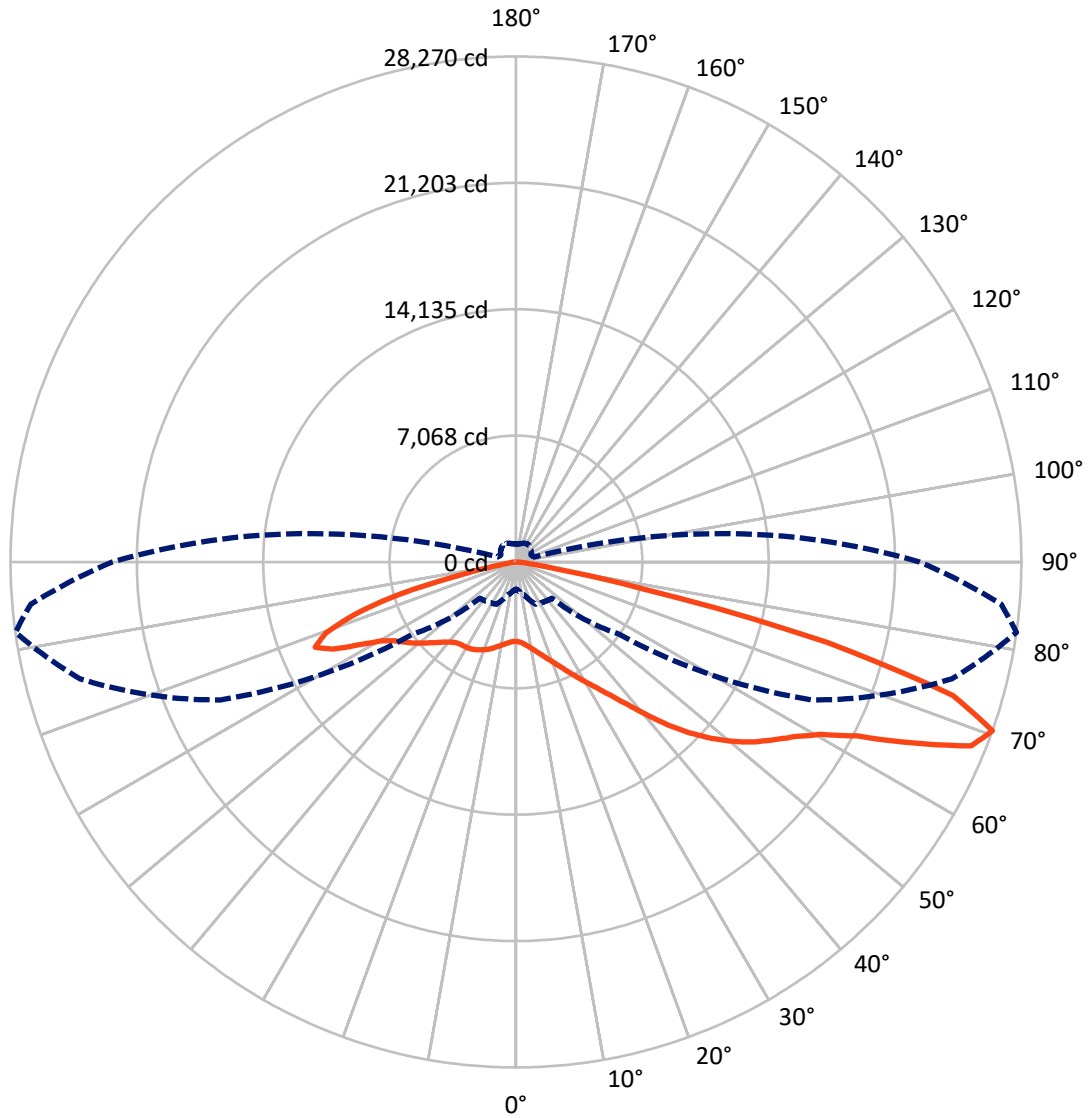
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7457.9	0.0	7457.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	22794.1	0.0	22794.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	30252.0	0.0	30252.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.8	1.4
10°-20°	1203.2	4.0
20°-30°	2012.8	6.7
30°-40°	3144.5	10.4
40°-50°	5007.9	16.6
50°-60°	6969.1	23.0
60°-70°	7290.0	24.1
70°-80°	3810.2	12.6
80°-90°	395.6	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°	30252.0	100.0
0°-180°	30252.0	100.0

Coefficient of Utilization



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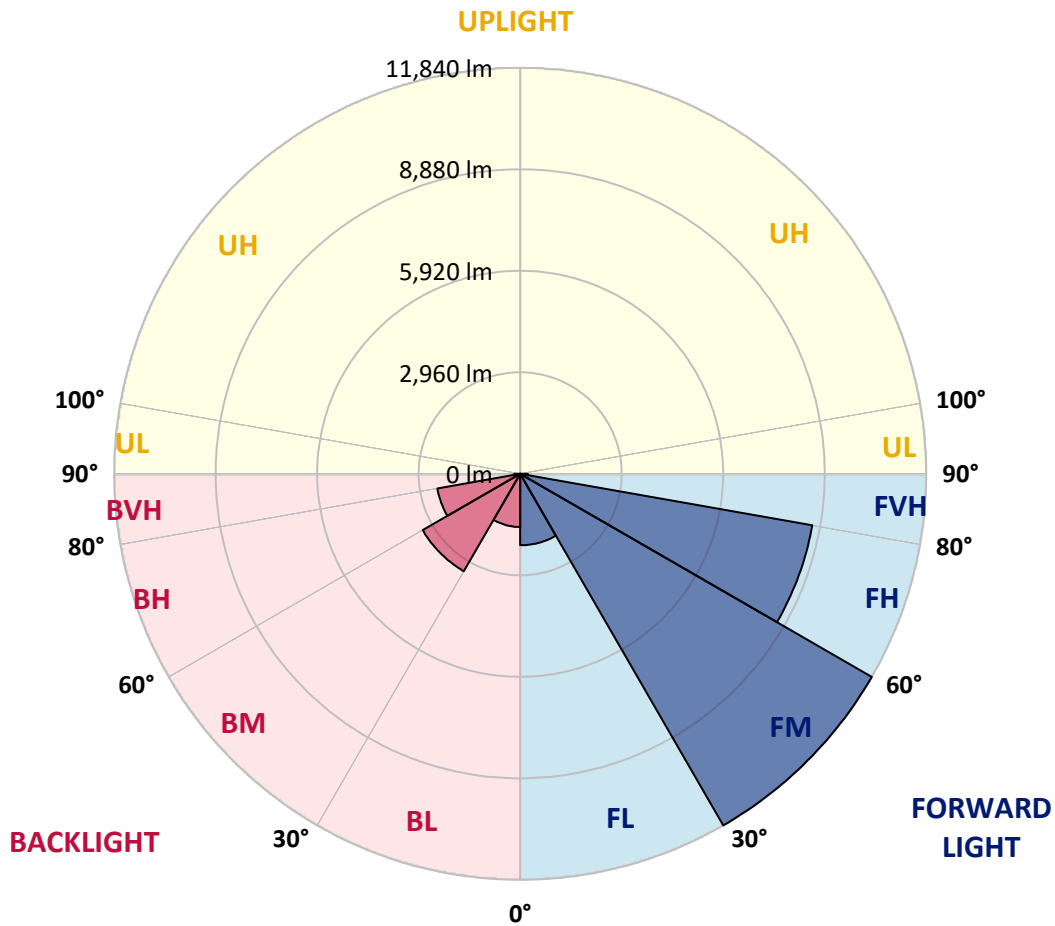
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2083.2	6.9			
FM (30°-60°)	11840.3	39.1			
FH (60°-80°)	8649.1	28.6			G4/12000
FVH (80°-90°)	221.5	0.7			G2/225
BL (0°-30°)	1551.5	5.1	B3/2500		
BM (30°-60°)	3281.2	10.8	B3/5000		
BH (60°-80°)	2451.0	8.1	B3/2500		G3/2500
BVH (80°-90°)	174.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4435.3	4435.3	4435.3	4435.3	4435.3	4435.3	4435.3	4435.3	4435.3	4435.3
2.5°	4541.3	4567.0	4558.9	4550.9	4550.9	4539.7	4538.1	4522.0	4509.2	4488.3
5°	4599.1	4626.3	4623.1	4629.6	4650.4	4655.2	4660.1	4650.4	4624.7	4599.1
7.5°	4547.7	4578.2	4587.8	4626.3	4690.6	4748.3	4791.7	4809.3	4785.3	4748.3
10°	4374.3	4408.0	4441.7	4533.2	4647.2	4783.7	4899.2	4968.3	4963.5	4928.1
12.5°	4022.8	4058.1	4130.3	4308.5	4517.2	4758.0	4973.1	5117.6	5167.3	5141.6
15°	3741.9	3772.4	3826.9	4009.9	4281.2	4647.2	5000.4	5281.3	5408.1	5393.7
17.5°	3733.8	3746.7	3780.4	3867.1	4075.7	4473.8	4971.5	5441.8	5684.2	5682.6
20°	3875.1	3879.9	3899.2	3916.8	4035.6	4342.2	4897.6	5575.1	5994.0	5994.0
22.5°	4070.9	4067.7	4087.0	4070.9	4128.7	4331.0	4851.1	5692.2	6339.2	6364.8
25°	4364.7	4348.6	4343.8	4306.9	4318.1	4435.3	4902.5	5825.5	6748.5	6801.5
27.5°	4756.4	4730.7	4713.0	4628.0	4599.1	4650.4	5059.8	5986.0	7204.4	7295.9
30°	5266.8	5220.3	5194.6	5046.9	4942.6	4950.6	5297.3	6199.5	7681.1	7828.8
32.5°	5963.5	5891.3	5822.3	5579.9	5388.8	5326.2	5603.9	6494.9	8198.0	8434.0
35°	6743.7	6685.9	6612.0	6238.0	5944.3	5799.8	6018.1	6907.4	8803.2	9177.2
37.5°	7494.9	7445.2	7480.5	6976.4	6597.6	6387.3	6560.7	7461.2	9549.7	10101.9
40°	8271.9	8233.4	8238.2	7756.6	7315.2	7079.2	7218.8	8156.3	10405.3	11201.5
42.5°	9116.2	9087.4	8991.0	8564.0	8068.0	7848.1	7976.5	8958.9	11323.5	12453.6
45°	10061.7	10044.1	9954.2	9464.6	8896.3	8649.1	8822.5	9845.0	12246.5	13631.8
47.5°	10878.8	10893.3	10882.0	10469.5	9880.3	9517.6	9724.6	10769.7	13105.3	14739.5
50°	11272.1	11347.6	11458.3	11329.9	10963.9	10594.7	10634.8	11662.2	13924.0	15778.1
52.5°	11066.6	11209.5	11511.3	11716.8	11858.0	11781.0	11673.4	12548.3	14694.5	16715.5
55°	10300.9	10501.6	11002.4	11498.4	12219.2	12779.4	12920.7	13530.7	15445.8	17540.6
57.5°	8906.0	9231.8	9681.3	10684.6	11898.2	13262.6	14375.1	14893.6	16242.0	18421.9
60°	6514.1	6950.8	7509.4	9002.3	10774.5	13004.2	15612.7	16986.8	17373.7	19563.3
62.5°	4168.8	4438.5	4952.2	6358.4	8395.5	11679.8	15991.6	19603.4	19292.0	21435.0
65°	2854.1	3027.5	3497.9	4287.6	5427.4	8694.1	14977.0	21565.0	22338.7	24401.5
67.5°	2074.0	2205.6	2606.9	3298.8	3536.4	5144.8	11622.1	21475.1	25300.4	27457.9
70°	1512.2	1605.3	1942.4	2606.9	2720.9	2862.2	7040.7	18255.0	25236.2	28270.2
72.5°	1120.5	1184.7	1411.0	2022.6	2202.4	1932.7	3485.0	13267.4	21685.4	25570.1
75°	810.7	858.8	1025.8	1547.5	1762.6	1472.0	1738.5	7753.4	15126.3	17986.9
77.5°	619.6	656.5	765.7	1133.3	1411.0	1104.4	1078.7	3566.9	7172.3	7207.6
80°	497.6	521.7	581.1	797.8	1081.9	826.7	703.1	1439.9	2266.6	1918.3
82.5°	366.0	406.1	491.2	560.2	773.7	569.9	428.6	727.2	862.0	741.6
85°	208.7	236.0	297.0	401.3	494.4	348.3	245.6	322.7	401.3	329.1
87.5°	73.8	96.3	104.3	157.3	215.1	144.5	94.7	93.1	131.6	97.9
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°
4435.3	0°	4435.3	4435.3	4435.3	4435.3	4435.3	4435.3	4435.3	4435.3	4435.3	4435.3
4483.5	2.5°	4467.4	4459.4	4427.3	4384.0	4339.0	4295.7	4281.2	4250.7	4229.8	4218.6
4587.8	5°	4557.3	4531.6	4456.2	4359.9	4258.7	4149.6	4072.5	4001.9	3950.5	3902.4
4730.7	7.5°	4685.7	4640.8	4510.8	4342.2	4162.4	3981.0	3846.2	3743.5	3674.4	3629.5
4897.6	10°	4835.0	4766.0	4567.0	4314.9	4037.2	3777.2	3618.2	3530.0	3486.6	3462.5
5088.7	12.5°	5006.8	4908.9	4624.7	4252.3	3846.2	3549.2	3440.1	3414.4	3416.0	3417.6
5329.4	15°	5218.7	5082.2	4671.3	4115.9	3597.4	3374.2	3355.0	3396.7	3440.1	3460.9
5602.3	17.5°	5457.9	5265.2	4679.3	3891.1	3353.4	3261.9	3322.9	3412.8	3478.6	3507.5
5907.3	20°	5714.7	5451.4	4621.5	3573.3	3152.7	3170.4	3279.5	3395.1	3467.4	3504.3
6255.7	22.5°	6008.5	5650.5	4483.5	3239.4	2989.0	3070.9	3199.3	3311.6	3387.1	3424.0
6665.0	25°	6344.0	5873.6	4266.8	2958.5	2847.7	2958.5	3086.9	3180.0	3241.0	3274.7
7122.5	27.5°	6716.4	6106.4	3977.8	2735.4	2724.1	2842.9	2948.9	3021.1	3053.2	3078.9
7608.9	30°	7090.4	6318.3	3627.9	2566.8	2616.6	2728.9	2804.4	2836.5	2846.1	2850.9
8151.5	32.5°	7494.9	6501.3	3260.3	2427.1	2513.8	2618.2	2663.1	2677.6	2632.6	2602.1
8809.6	35°	7984.5	6697.1	2900.7	2316.4	2412.7	2502.6	2517.0	2504.2	2451.2	2388.6
9634.7	37.5°	8589.7	6941.1	2613.4	2237.7	2318.0	2377.4	2359.7	2356.5	2361.3	2287.5
10626.8	40°	9331.4	7259.0	2403.1	2176.7	2240.9	2253.8	2204.0	2231.3	2255.4	2143.0
11715.2	42.5°	10154.8	7642.6	2269.8	2135.0	2176.7	2146.2	2069.2	2099.7	2096.5	1948.8
12808.3	45°	10994.4	8060.0	2223.3	2104.5	2117.3	2056.3	1971.3	1979.3	1911.9	1778.6
13856.6	47.5°	11829.1	8507.9	2252.2	2078.8	2043.5	1974.5	1908.6	1873.3	1773.8	1674.3
14861.5	50°	12647.8	8978.2	2358.1	2027.4	1942.4	1902.2	1854.1	1791.5	1685.5	1600.4
15811.8	52.5°	13407.1	9451.7	2476.9	1942.4	1815.5	1839.6	1809.1	1736.9	1632.5	1545.9
16710.7	55°	14126.3	9925.3	2523.5	1825.2	1696.8	1785.0	1767.4	1634.2	1508.9	1438.3
17651.4	57.5°	14909.6	10495.2	2472.1	1675.9	1600.4	1722.4	1655.0	1507.3	1435.1	1382.1
18876.2	60°	15994.8	11389.3	2361.3	1491.3	1508.9	1629.3	1513.8	1452.8	1374.1	1314.7
20712.6	62.5°	17797.5	13057.1	2183.1	1308.3	1401.4	1491.3	1446.3	1385.3	1305.1	1247.3
23852.5	65°	20462.2	15375.1	1847.6	1165.4	1281.0	1356.4	1374.1	1313.1	1229.6	1168.6
26603.9	67.5°	22709.6	16829.5	1398.2	1046.6	1157.4	1247.3	1297.0	1237.7	1149.4	1090.0
27247.6	70°	22585.9	15773.2	1067.5	929.4	1048.2	1139.7	1203.9	1157.4	1062.7	1006.5
24749.8	72.5°	20060.9	13195.2	863.6	810.7	937.5	1027.4	1104.4	1069.1	972.8	918.2
18131.4	75°	14737.9	9366.7	690.3	690.3	799.4	910.2	995.3	972.8	884.5	846.0
7612.1	77.5°	6212.3	3929.7	541.0	573.1	664.6	781.8	887.7	895.7	818.7	866.8
2013.0	80°	1651.8	1083.5	412.6	451.1	521.7	645.3	772.1	768.9	685.4	640.5
748.0	82.5°	629.3	427.0	293.8	317.8	377.2	494.4	611.6	630.9	547.4	473.6
293.8	85°	242.4	183.0	181.4	191.0	219.9	327.5	462.3	478.4	412.6	349.9
81.9	87.5°	62.6	54.6	67.4	64.2	101.1	175.0	264.9	274.5	252.0	146.1
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°
4435.3
4231.5
3921.6
3639.1
3469.0
3420.8
3459.3
3513.9
3513.9
3433.6
3284.4
3088.5
2862.2
2611.8
2391.8
2292.3
2146.2
1947.2
1783.4
1674.3
1594.0
1547.5
1431.9
1377.3
1311.5
1247.3
1171.8
1091.6
1011.3
918.2
834.7
786.6
595.5
473.6
361.2
208.7
0.0

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