

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: P954551

Luminaire Tested: **GALN-SB7D-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55745 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

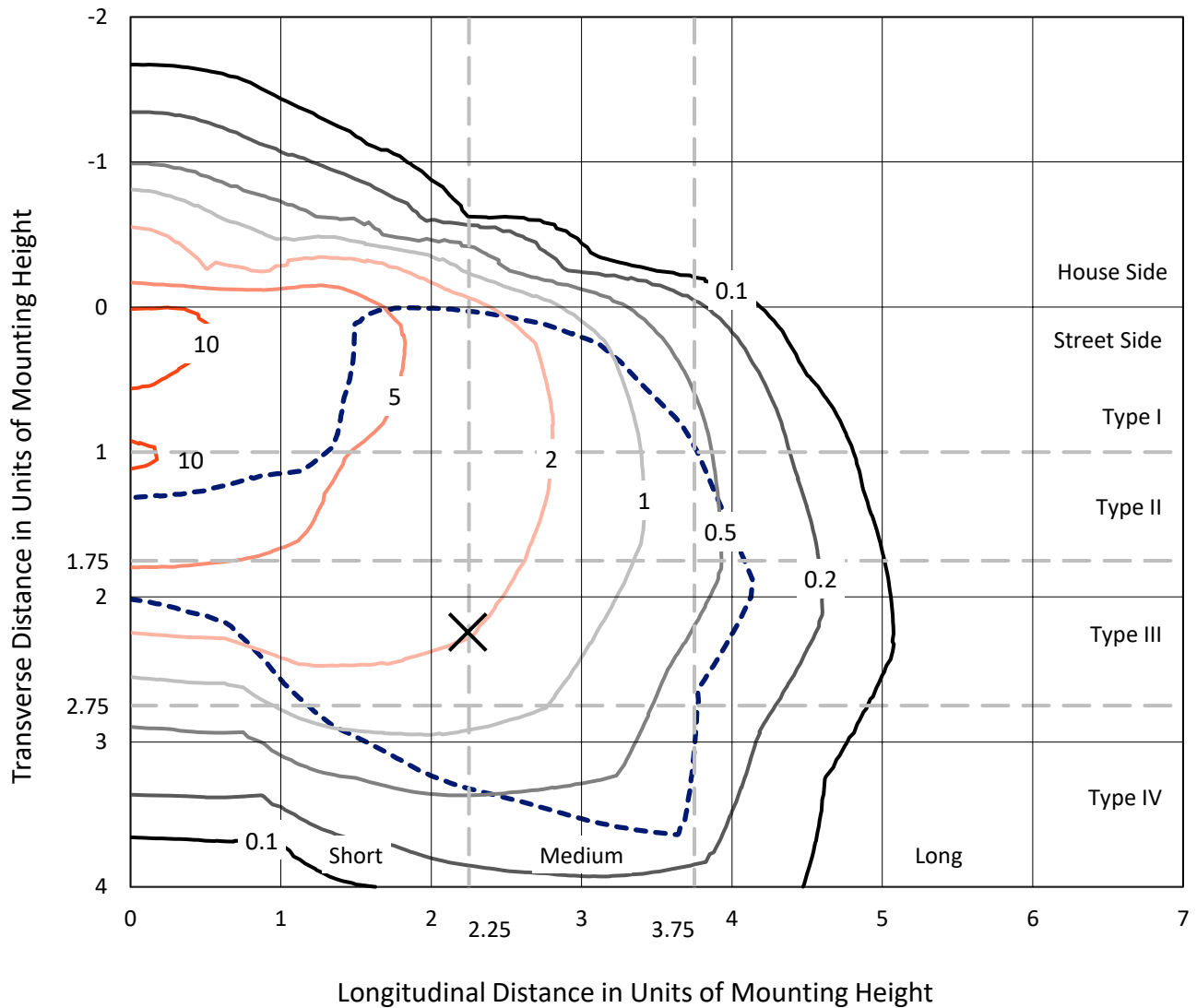
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

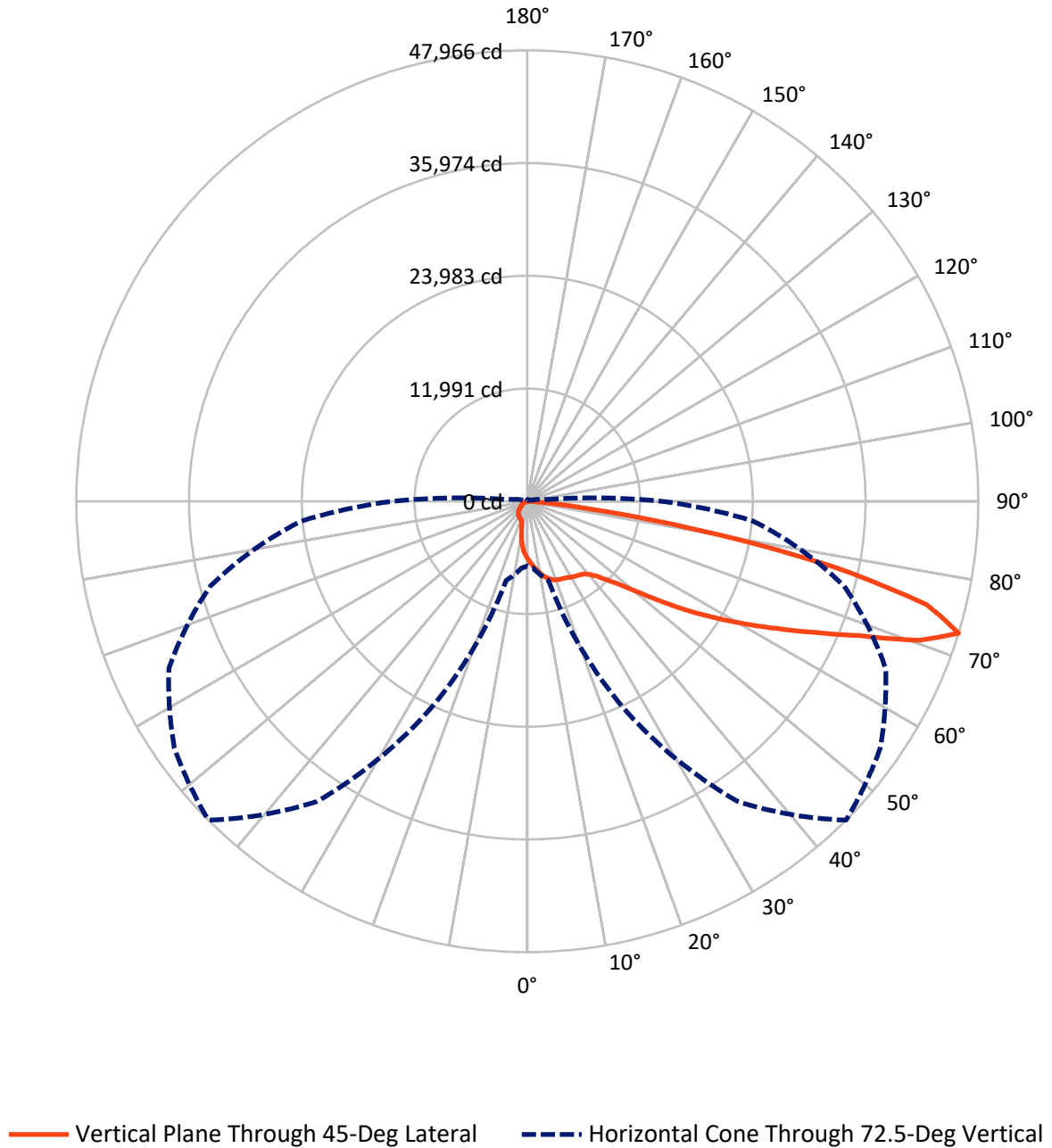
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5857.3	0.0	5857.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	49887.7	0.0	49887.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	55745.0	0.0	55745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.4	1.0
10°-20°	1681.6	3.0
20°-30°	2761.5	5.0
30°-40°	3916.5	7.0
40°-50°	6473.6	11.6
50°-60°	11629.1	20.9
60°-70°	16147.6	29.0
70°-80°	11712.9	21.0
80°-90°	846.8	1.5
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°	55745.0	100.0
0°-180°	55745.0	100.0

Coefficient of Utilization



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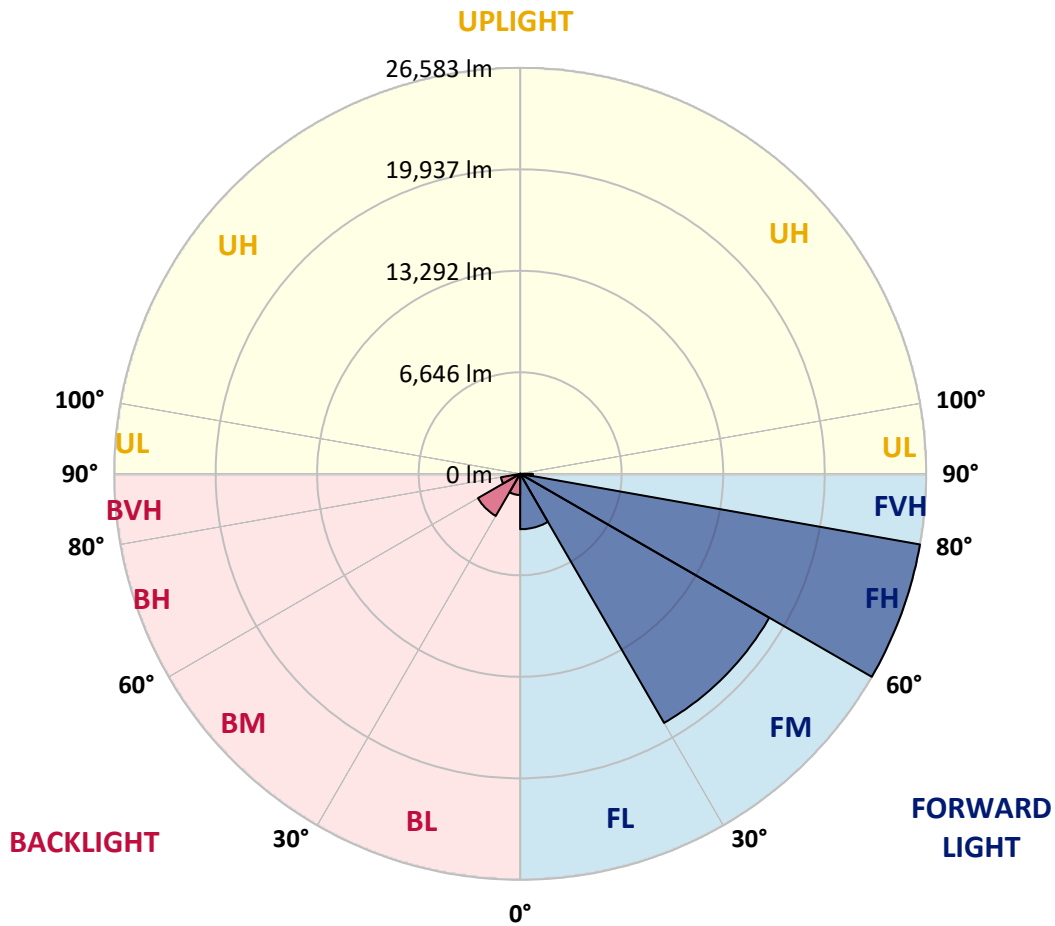
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3631.2	6.5			
FM (30°-60°)	18833.6	33.8			
FH (60°-80°)	26583.2	47.7			G5
FVH (80°-90°)	839.7	1.5			G5
BL (0°-30°)	1387.4	2.5	B3/2500		
BM (30°-60°)	3185.5	5.7	B3/5000		
BH (60°-80°)	1277.3	2.3	B3/2500		G3/2500
BVH (80°-90°)	7.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	6107.0	6107.0	6107.0	6107.0	6107.0	6107.0	6107.0	6107.0	6107.0	6107.0
2.5°	6670.1	6681.5	6673.9	6628.3	6552.2	6510.3	6487.5	6411.4	6361.9	6274.4
5°	7282.7	7328.4	7301.7	7210.4	7065.8	6963.1	6932.7	6776.7	6635.9	6472.3
7.5°	7933.4	7956.2	7906.7	7788.8	7594.7	7419.7	7393.1	7176.2	6951.7	6700.6
10°	8496.5	8523.1	8447.0	8275.8	8055.1	7838.2	7800.2	7560.5	7294.1	6985.9
12.5°	8968.3	8995.0	8896.0	8690.6	8447.0	8222.5	8184.5	7933.4	7640.4	7297.9
15°	9326.0	9375.5	9242.3	9021.6	8759.1	8534.6	8515.5	8268.2	7982.8	7602.3
17.5°	9535.3	9584.7	9459.2	9192.8	8968.3	8778.1	8755.2	8549.8	8283.4	7918.2
20°	9569.5	9615.2	9482.0	9249.9	9063.4	8911.2	8899.8	8751.4	8557.4	8207.3
22.5°	9466.8	9523.9	9402.1	9215.6	9086.3	9006.4	8991.2	8907.4	8797.1	8500.3
25°	9360.2	9405.9	9314.6	9151.0	9082.5	9074.9	9086.3	9071.1	9048.2	8797.1
27.5°	9352.6	9402.1	9299.4	9143.4	9105.3	9185.2	9196.6	9268.9	9287.9	9067.3
30°	9417.3	9451.6	9352.6	9189.0	9170.0	9352.6	9356.4	9485.8	9516.2	9295.6
32.5°	9558.1	9596.1	9497.2	9257.5	9230.9	9485.8	9497.2	9668.4	9717.9	9539.1
35°	9889.1	9934.8	9820.6	9447.8	9352.6	9611.4	9645.6	9847.3	9946.2	9797.8
37.5°	10714.8	10581.6	10425.6	9832.1	9630.4	9809.2	9866.3	10102.2	10277.2	10106.0
40°	12765.7	12347.1	11860.1	10486.5	10117.4	10231.6	10277.2	10513.1	10752.9	10585.4
42.5°	15843.9	15349.3	14565.4	11993.3	10851.8	10908.9	10943.1	11148.6	11487.2	11354.0
45°	18587.3	18408.5	17609.4	14565.4	12225.4	11943.8	11985.7	12092.2	12590.7	12541.2
47.5°	20695.3	20592.5	19976.1	17518.1	14546.4	13210.9	13328.8	13378.3	14097.4	14272.5
50°	22316.2	22278.1	21726.4	20143.5	17579.0	15079.1	15121.0	15014.4	16091.2	16525.0
52.5°	23845.8	23975.1	23568.0	22582.5	20817.0	17525.7	17518.1	17015.8	18469.3	19123.8
55°	25227.0	25272.6	25314.5	25071.0	24074.1	20311.0	20238.7	19416.8	21228.0	21905.2
57.5°	26524.5	26543.5	26916.4	27414.8	27464.3	23301.7	23168.5	22183.0	24241.5	24724.7
60°	27395.8	27483.3	28271.0	29656.0	30261.0	26387.5	26315.2	25310.7	27308.3	27532.8
62.5°	26140.2	26672.9	28659.1	31406.3	32901.6	29808.2	29773.9	28830.3	30534.9	30352.3
65°	21159.5	22061.2	25554.2	32589.6	35492.8	33628.4	33677.8	32673.3	33849.0	33255.5
67.5°	14801.3	15752.6	19884.8	32684.7	38388.4	38114.4	38399.8	36824.5	37368.7	36036.9
70°	10235.4	10726.2	13416.3	30637.7	40644.7	44293.7	44286.1	41923.2	40869.2	37304.0
72.5°	6883.2	7138.1	8713.4	24306.2	38985.8	47965.5	47744.8	45819.5	42048.8	34887.8
75°	2903.2	3089.6	4033.3	13659.9	30843.1	43882.8	43285.4	40492.5	37361.0	27471.9
77.5°	920.8	1000.7	1590.5	4889.4	16989.2	32985.3	32353.7	25287.9	25040.5	13781.6
80°	437.6	509.9	894.2	1963.4	6685.3	17940.5	17852.9	11472.0	10771.9	3721.3
82.5°	190.2	224.5	494.6	1050.2	2990.7	6400.0	6529.3	3903.9	3230.4	1411.6
85°	60.9	79.9	228.3	483.2	1263.3	1590.5	1571.5	928.4	1301.3	768.6
87.5°	0.0	0.0	76.1	110.3	129.4	91.3	102.7	79.9	361.5	213.1
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°
6107.0	0°	6107.0	6107.0	6107.0	6107.0	6107.0	6107.0	6107.0	6107.0	6107.0	6107.0
6183.1	2.5°	6137.4	6076.5	5970.0	5871.1	5783.6	5696.0	5642.8	5566.7	5559.1	5559.1
6282.0	5°	6179.3	6080.3	5890.1	5688.4	5456.3	5235.6	5015.0	4801.9	4733.4	4683.9
6441.8	7.5°	6301.0	6145.0	5844.4	5460.1	5018.8	4535.5	4196.9	3831.6	3690.8	3614.7
6654.9	10°	6476.1	6263.0	5806.4	5132.9	4417.6	3759.3	3276.1	2880.4	2728.2	2663.5
6887.0	12.5°	6670.1	6407.6	5737.9	4725.8	3759.3	2971.7	2499.9	2317.2	2294.4	2294.4
7164.8	15°	6902.2	6582.6	5619.9	4246.4	3070.6	2351.5	2184.1	2191.7	2214.5	2229.7
7434.9	17.5°	7141.9	6769.0	5433.5	3709.8	2461.8	2115.6	2119.4	2130.8	2149.8	2165.0
7727.9	20°	7400.7	6955.5	5186.2	3139.1	2111.8	2047.1	2058.5	2069.9	2085.1	2092.7
8001.9	22.5°	7678.4	7130.5	4893.2	2579.8	1993.8	1990.0	1993.8	2005.2	2024.2	2024.2
8321.5	25°	7975.2	7324.6	4558.4	2172.6	1932.9	1932.9	1940.5	1948.1	1963.4	1963.4
8629.7	27.5°	8279.6	7503.4	4204.5	1959.6	1879.7	1875.9	1875.9	1887.3	1894.9	1898.7
8934.1	30°	8614.5	7712.7	3850.6	1913.9	1837.8	1818.8	1807.4	1815.0	1822.6	1826.4
9253.7	32.5°	8956.9	7914.3	3534.8	1932.9	1795.9	1761.7	1723.7	1716.0	1716.0	1731.3
9584.7	35°	9337.4	8135.0	3291.3	1997.6	1773.1	1678.0	1617.1	1582.9	1586.7	1609.5
9980.4	37.5°	9794.0	8401.4	3112.5	2054.7	1757.9	1582.9	1483.9	1442.1	1415.5	1442.1
10524.6	40°	10391.4	8793.3	2983.1	2100.3	1738.9	1472.5	1339.4	1270.9	1221.4	1236.6
11369.3	42.5°	11270.3	9409.7	2933.6	2104.2	1697.0	1343.2	1191.0	1099.6	1027.3	1031.1
12640.1	45°	12503.1	10383.8	3188.6	2054.7	1605.7	1202.4	1035.0	913.2	867.5	856.1
14538.8	47.5°	14192.6	11803.0	3778.3	1952.0	1472.5	1065.4	882.8	780.0	745.8	726.8
17031.1	50°	16456.5	13625.6	4432.8	1837.8	1339.4	936.0	757.2	692.5	669.7	650.7
19987.5	52.5°	19081.9	15474.8	4969.3	1723.7	1206.2	821.9	677.3	639.2	620.2	605.0
22841.3	55°	21490.5	16749.5	4938.9	1601.9	1076.8	730.6	620.2	597.4	574.6	559.3
25299.3	57.5°	22989.7	16928.3	4071.3	1468.7	928.4	658.3	566.9	551.7	525.1	506.1
27426.3	60°	23678.4	15908.6	2853.7	1293.7	780.0	589.8	509.9	502.3	468.0	441.4
29439.1	62.5°	23803.9	14013.7	1902.5	1076.8	650.7	525.1	452.8	441.4	395.7	350.1
31075.2	65°	23294.1	11304.6	1316.5	840.9	555.5	456.6	388.1	365.3	315.8	270.2
31463.3	67.5°	21680.7	7937.2	917.0	605.0	471.8	361.5	308.2	300.6	262.5	224.5
29484.7	70°	18724.3	4524.1	612.6	452.8	372.9	247.3	243.5	251.1	213.1	182.6
24089.3	72.5°	14356.2	2069.9	380.5	331.0	254.9	167.4	194.1	197.9	163.6	137.0
15029.6	75°	8450.8	886.6	239.7	213.1	129.4	110.3	140.8	144.6	110.3	87.5
5494.4	77.5°	2876.6	334.8	152.2	125.6	64.7	60.9	91.3	91.3	60.9	34.2
1103.4	80°	654.5	125.6	76.1	49.5	30.4	26.6	30.4	26.6	15.2	3.8
338.6	82.5°	186.4	49.5	30.4	19.0	11.4	11.4	3.8	0.0	0.0	0.0
118.0	85°	53.3	22.8	7.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0
41.9	87.5°	22.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
6107.0
5578.1
4706.8
3626.1
2663.5
2294.4
2229.7
2165.0
2096.5
2031.9
1967.2
1902.5
1834.0
1742.7
1620.9
1434.5
1229.0
1015.9
840.9
715.3
646.8
601.2
551.7
502.3
433.8
327.2
254.9
213.1
167.4
121.8
76.1
26.6
0.0
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