

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: P943168

Luminaire Tested: **GALN-SB7C-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40326 lumens
Efficiency: N/A
Efficacy: 115.1 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

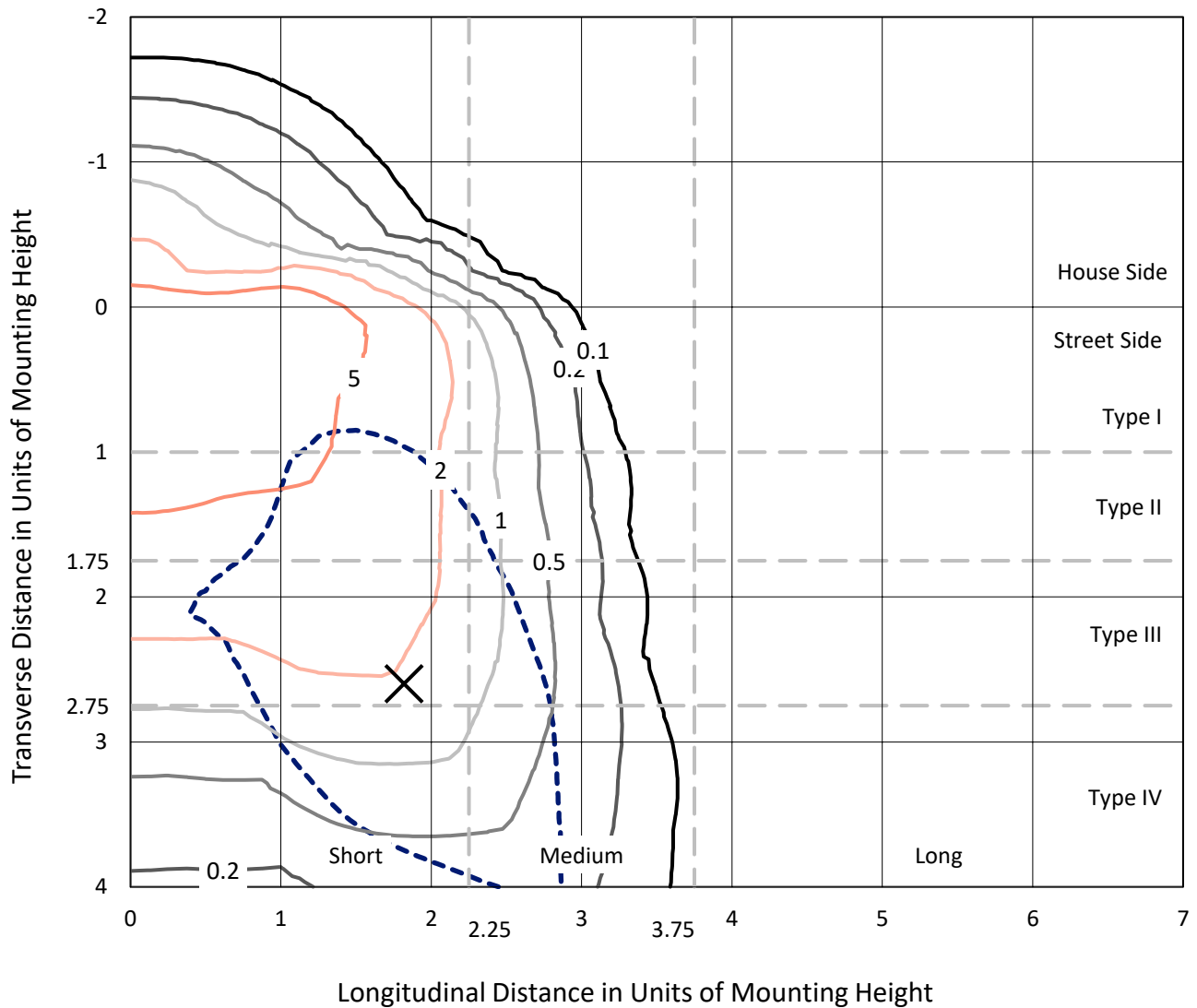
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

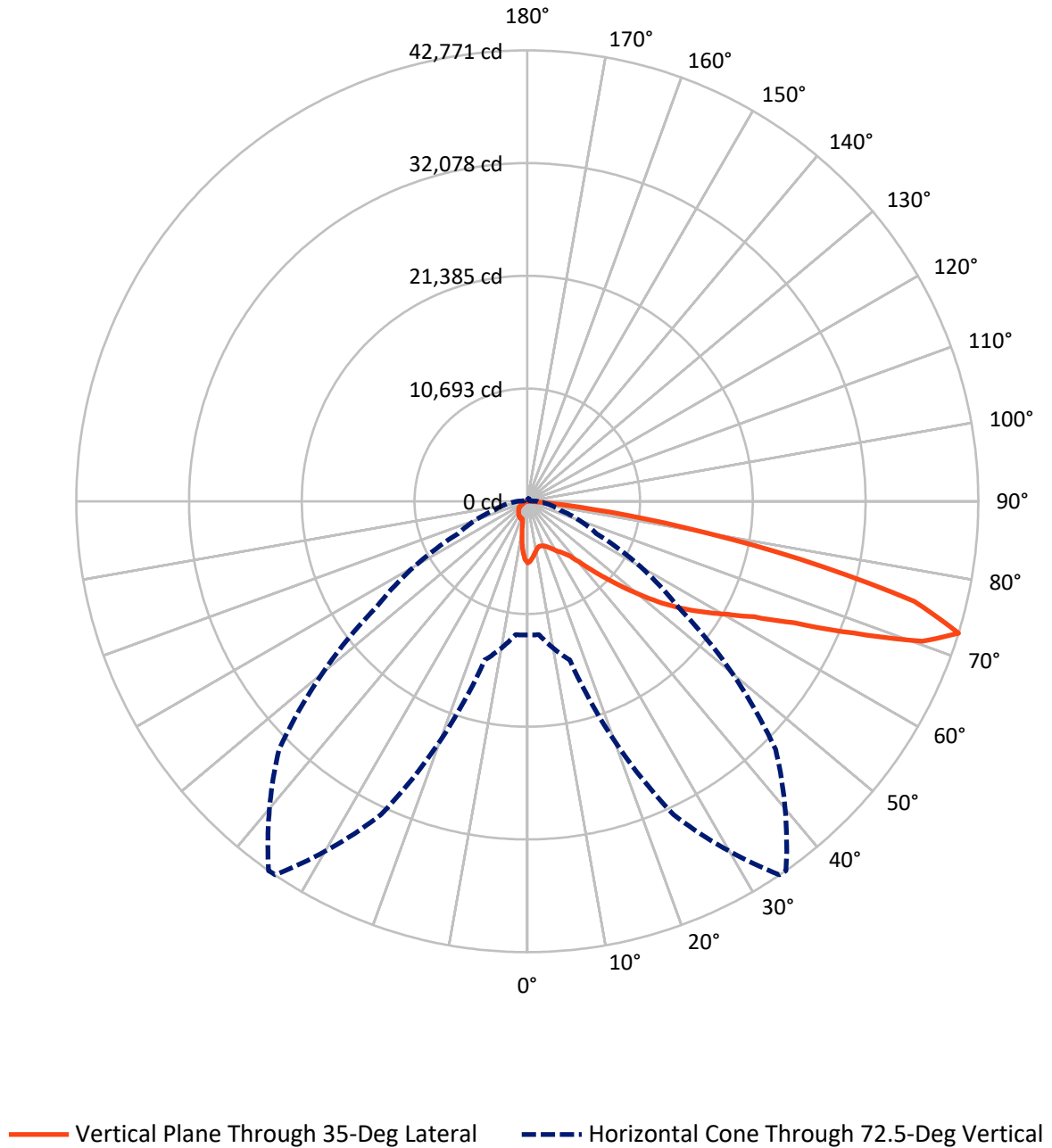
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	4538.5	0.0	4538.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	35787.5	0.0	35787.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	40326.0	0.0	40326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.3	1.2
10°-20°	1123.5	2.8
20°-30°	1825.2	4.5
30°-40°	3045.2	7.6
40°-50°	5761.7	14.3
50°-60°	9155.3	22.7
60°-70°	11325.7	28.1
70°-80°	7040.1	17.5
80°-90°	569.0	1.4
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°	40326.0	100.0
0°-180°	40326.0	100.0

Coefficient of Utilization



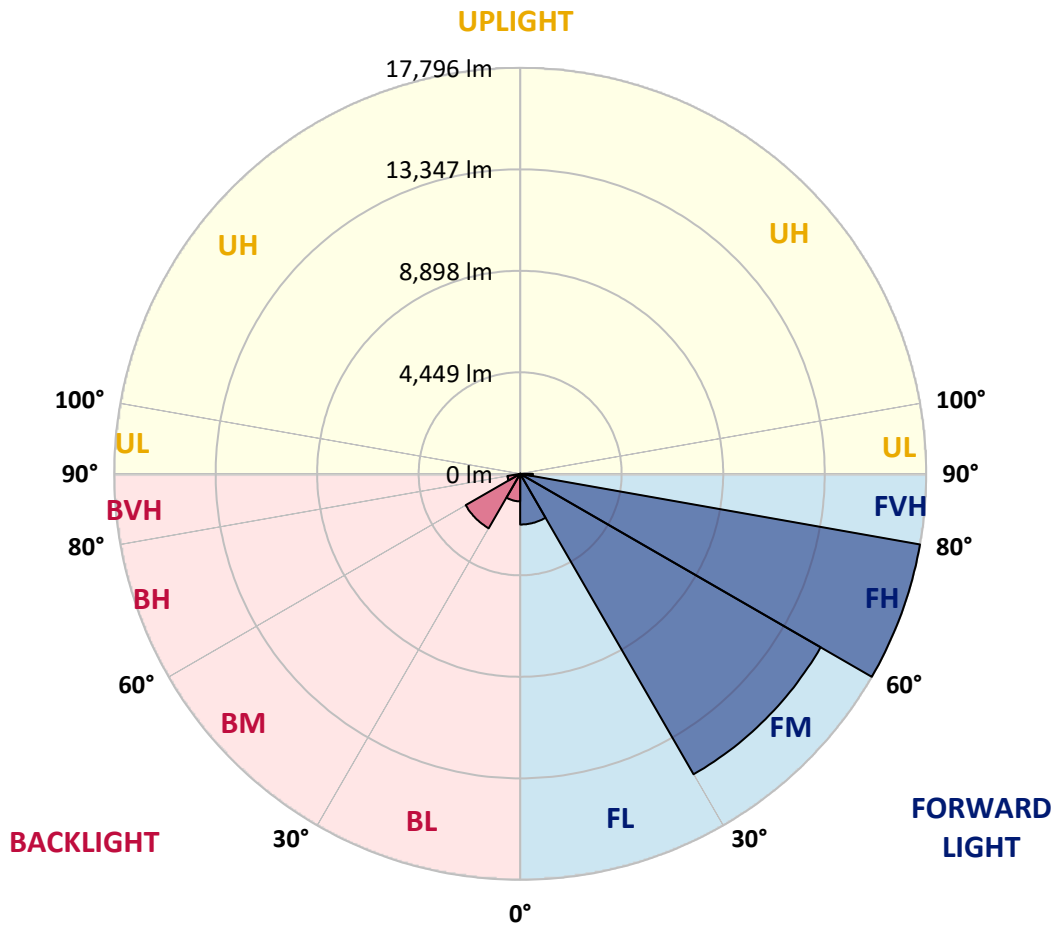
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2223.0	5.5			
FM (30°-60°)	15206.9	37.7			
FH (60°-80°)	17796.4	44.1			G5
FVH (80°-90°)	561.2	1.4			G4/750
BL (0°-30°)	1206.0	3.0	B3/2500		
BM (30°-60°)	2755.3	6.8	B3/5000		
BH (60°-80°)	569.5	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.7	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°	34°	35°	45°	55°	65°	75°
0°	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6
2.5°	5584.6	5631.8	5640.7	5655.5	5655.5	5673.2	5702.8	5744.1	5812.1	5847.5
5°	5147.3	5182.7	5227.0	5262.5	5330.5	5339.3	5454.6	5566.8	5723.4	5841.6
7.5°	4707.0	4748.4	4807.5	4893.1	4981.8	5008.4	5182.7	5371.8	5620.0	5841.6
10°	4396.7	4399.7	4452.9	4538.6	4680.4	4712.9	4925.6	5194.5	5504.8	5806.2
12.5°	4222.4	4243.1	4266.7	4331.7	4467.7	4488.3	4715.9	5032.0	5389.6	5785.5
15°	4222.4	4237.2	4252.0	4284.5	4393.8	4411.5	4612.4	4928.6	5330.5	5794.4
17.5°	4266.7	4290.4	4278.5	4317.0	4432.2	4444.0	4621.3	4899.1	5327.5	5850.5
20°	4373.1	4390.8	4367.2	4390.8	4506.1	4529.7	4712.9	4955.2	5377.7	5948.0
22.5°	4541.5	4550.4	4494.2	4512.0	4630.2	4659.7	4872.5	5114.8	5498.9	6104.6
25°	4754.3	4772.0	4686.3	4707.0	4819.3	4854.7	5100.0	5354.1	5690.9	6320.3
27.5°	4999.5	5008.4	4934.5	4931.6	5076.3	5126.6	5374.8	5649.6	5948.0	6592.2
30°	5280.2	5306.8	5235.9	5224.1	5407.3	5448.6	5693.9	6013.0	6326.2	6999.9
32.5°	5501.8	5522.5	5481.1	5510.7	5696.8	5729.4	6081.0	6527.1	6920.1	7579.1
35°	5821.0	5832.8	5738.2	5791.4	6004.1	6086.9	6609.9	7248.1	7667.7	8305.9
37.5°	6976.3	6976.3	6574.4	6311.4	6515.3	6589.2	7333.8	8155.2	8589.6	9281.0
40°	8574.8	8548.2	7960.2	7422.5	7395.9	7540.6	8365.0	9298.7	9780.4	10451.1
42.5°	10279.7	10238.4	9437.6	8905.8	8817.1	8867.3	9555.8	10708.2	11198.7	11878.3
45°	11792.6	11780.8	11048.0	10332.9	10173.4	10332.9	11042.1	12357.0	12708.6	13423.6
47.5°	13060.2	13060.2	12525.4	12058.5	11975.8	12070.3	13054.3	14186.0	14153.5	15069.5
50°	14519.9	14508.1	13999.8	13798.9	13884.6	14017.6	15370.9	16112.5	15648.6	16685.7
52.5°	15542.2	15613.1	15438.8	15406.3	15843.6	16074.1	17722.9	17997.7	16987.1	18219.3
55°	16351.8	16434.6	16635.5	16863.0	17705.1	18006.5	20001.0	19785.3	18107.0	19548.9
57.5°	17498.3	17380.1	17690.4	18139.5	19501.7	19865.1	22208.3	21472.5	19008.2	20627.4
60°	18890.0	18907.7	18960.9	19528.3	21295.2	21762.1	24383.0	23068.1	19587.4	21289.3
62.5°	20562.4	20589.0	20698.4	21570.0	23703.4	24143.7	26699.6	24374.1	19853.3	21103.2
65°	20447.2	20559.5	21779.8	24761.2	27364.4	27798.7	29403.2	25290.1	19451.4	19401.2
67.5°	18627.0	18810.2	20852.0	28572.9	32883.9	33368.5	32671.2	25470.4	17717.0	15087.2
70°	16239.6	16304.6	18760.0	32000.5	39275.2	39765.7	35596.4	23487.7	13444.3	8415.3
72.5°	12682.0	12696.8	15577.7	32795.3	42744.1	42770.7	33300.6	17436.3	7230.4	3232.5
75°	9059.4	8970.8	10433.4	26596.1	37605.7	37907.1	24965.1	8178.9	2762.7	1527.6
77.5°	4857.7	4955.2	5903.7	15772.7	25978.6	26492.7	13621.6	2357.9	1406.5	1040.1
80°	1501.0	1583.8	2420.0	7221.5	14714.9	15025.1	5049.7	1049.0	981.0	741.7
82.5°	472.8	490.5	1128.7	3034.6	6107.6	6249.4	1462.6	593.9	670.7	490.5
85°	135.9	138.9	502.3	1131.7	1509.9	1539.4	410.7	230.5	384.1	304.3
87.5°	14.8	47.3	189.1	189.1	133.0	130.0	44.3	50.2	109.3	38.4
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°
5844.6	0°	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6
5871.2	2.5°	5856.4	5859.4	5821.0	5755.9	5685.0	5625.9	5552.1	5493.0	5451.6	5439.8
5924.4	5°	5897.8	5877.1	5767.8	5569.8	5333.4	5129.5	4902.0	4721.8	4603.6	4553.3
5980.5	7.5°	5959.8	5900.7	5661.4	5271.4	4819.3	4417.4	4009.7	3693.5	3492.6	3392.1
6033.7	10°	6013.0	5894.8	5484.1	4840.0	4148.5	3539.8	2990.3	2609.1	2396.3	2295.9
6095.7	12.5°	6063.2	5891.9	5253.6	4328.8	3392.1	2647.5	2136.3	1947.2	1888.1	1867.4
6196.2	15°	6157.8	5900.7	4964.1	3743.7	2638.6	2000.4	1814.2	1811.3	1823.1	1817.2
6349.9	17.5°	6287.8	5909.6	4636.1	3123.2	2035.9	1764.0	1755.1	1781.7	1799.5	1790.6
6541.9	20°	6456.2	5945.1	4287.4	2508.6	1749.2	1704.9	1725.6	1749.2	1764.0	1749.2
6799.0	22.5°	6692.6	6007.1	3906.2	2015.2	1657.6	1669.5	1687.2	1713.8	1728.6	1707.9
7127.0	25°	6982.2	6104.6	3531.0	1752.2	1613.3	1628.1	1654.7	1684.2	1702.0	1681.3
7540.6	27.5°	7357.4	6261.2	3185.3	1693.1	1569.0	1577.9	1616.3	1660.6	1684.2	1657.6
8128.6	30°	7901.1	6518.3	2886.8	1719.7	1542.4	1521.7	1574.9	1637.0	1663.6	1639.9
8929.4	32.5°	8622.1	6881.7	2703.6	1761.1	1530.6	1456.7	1506.9	1586.7	1631.0	1616.3
9975.4	35°	9567.6	7434.3	2632.7	1808.3	1521.7	1388.8	1424.2	1509.9	1586.7	1601.5
11293.2	37.5°	10714.1	8202.5	2653.4	1829.0	1495.1	1332.6	1350.3	1424.2	1524.7	1572.0
12776.5	40°	12017.2	9097.8	2771.6	1808.3	1465.6	1285.3	1288.3	1344.4	1433.1	1504.0
14372.1	42.5°	13361.6	10143.8	2990.3	1731.5	1439.0	1244.0	1235.1	1273.5	1332.6	1382.8
15964.8	45°	14641.0	11219.4	3206.0	1625.1	1406.5	1202.6	1181.9	1196.7	1208.5	1229.2
17516.0	47.5°	15757.9	11975.8	3143.9	1527.6	1362.2	1155.3	1119.9	1114.0	1078.5	1075.5
18901.8	50°	16529.1	12141.3	2792.3	1430.1	1297.2	1102.1	1046.0	1010.5	948.5	918.9
19939.0	52.5°	16774.4	11488.3	2281.1	1332.6	1190.8	1031.2	951.4	895.3	818.5	791.9
20535.8	55°	16449.4	10208.8	1823.1	1214.4	1043.0	936.7	848.0	774.2	712.1	679.6
20600.8	57.5°	15654.5	8580.7	1441.9	1075.5	886.4	830.3	741.7	667.8	614.6	582.1
19879.9	60°	14336.7	6813.8	1140.6	910.1	756.4	715.1	623.5	576.2	528.9	490.5
18018.4	62.5°	12336.3	4863.6	895.3	721.0	632.3	585.0	531.9	496.4	440.3	387.1
14670.6	65°	9626.7	2975.5	691.4	528.9	508.2	484.6	452.1	419.6	351.6	298.4
9570.6	67.5°	6072.1	1409.4	493.5	398.9	401.9	390.0	375.3	348.7	298.4	251.2
4287.4	70°	2674.1	682.6	325.0	304.3	298.4	298.4	310.3	301.4	254.1	209.8
1489.2	72.5°	910.1	366.4	242.3	230.5	215.7	212.7	260.0	251.2	203.9	162.5
741.7	75°	475.7	245.2	177.3	165.5	130.0	156.6	206.8	195.0	144.8	106.4
490.5	77.5°	310.3	174.3	121.1	106.4	73.9	103.4	153.6	135.9	85.7	53.2
322.1	80°	195.0	115.2	70.9	50.2	35.5	56.1	82.7	59.1	32.5	11.8
189.1	82.5°	103.4	59.1	26.6	17.7	14.8	17.7	20.7	14.8	5.9	0.0
97.5	85°	41.4	20.7	8.9	5.9	3.0	0.0	5.9	3.0	0.0	0.0
17.7	87.5°	14.8	3.0	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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<u>180°</u>
5844.6
5460.5
4571.1
3406.9
2298.8
1861.5
1814.2
1787.7
1746.3
1704.9
1678.3
1657.6
1637.0
1616.3
1601.5
1583.8
1527.6
1403.5
1241.0
1072.6
921.9
788.9
679.6
576.2
481.6
378.2
289.6
245.2
200.9
153.6
97.5
47.3
8.9
0.0
0.0
0.0
0.0

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