

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: P942018

Luminaire Tested: **GALN-SB5D-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942018
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-SB5D-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA 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: 33843 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

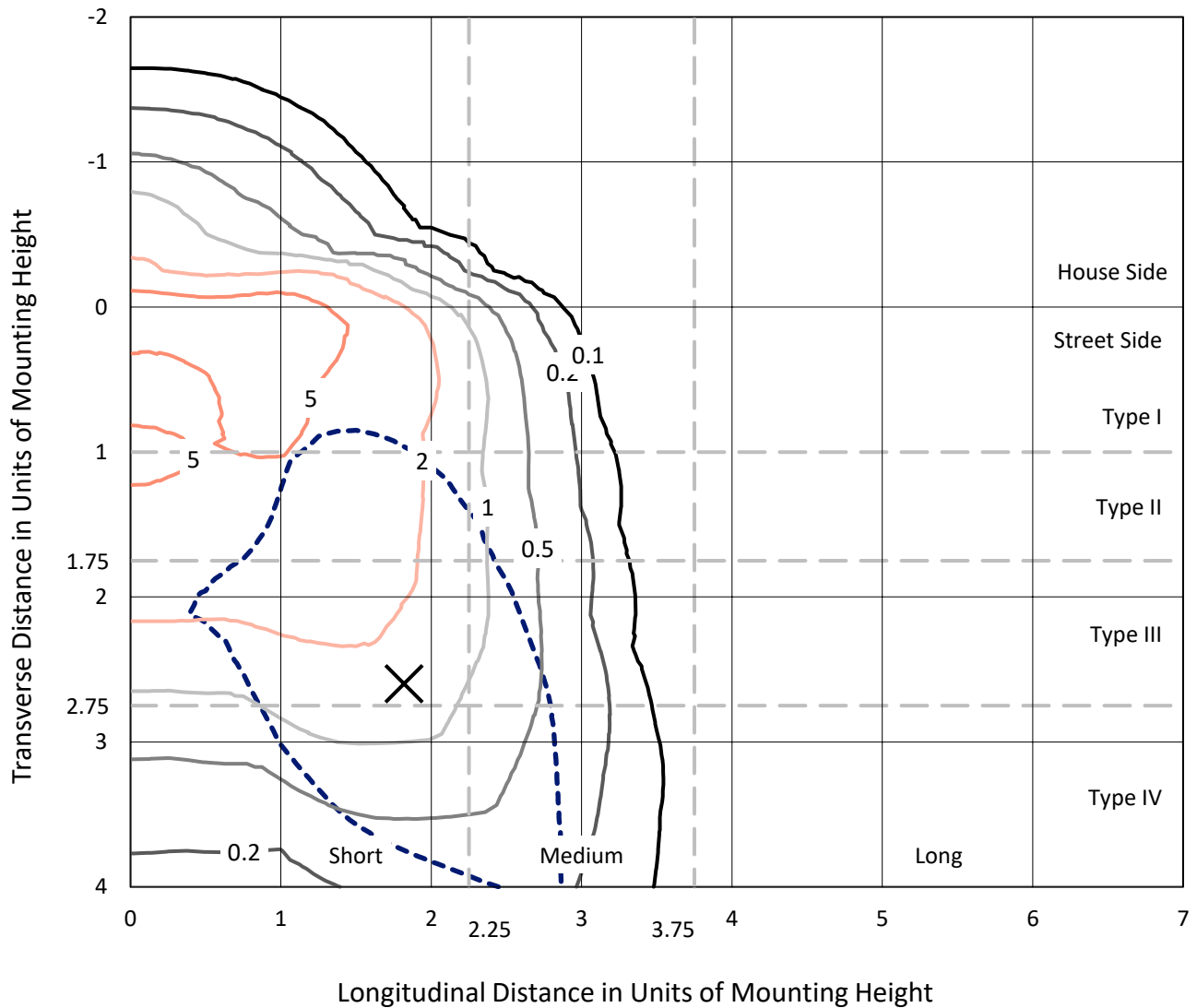
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

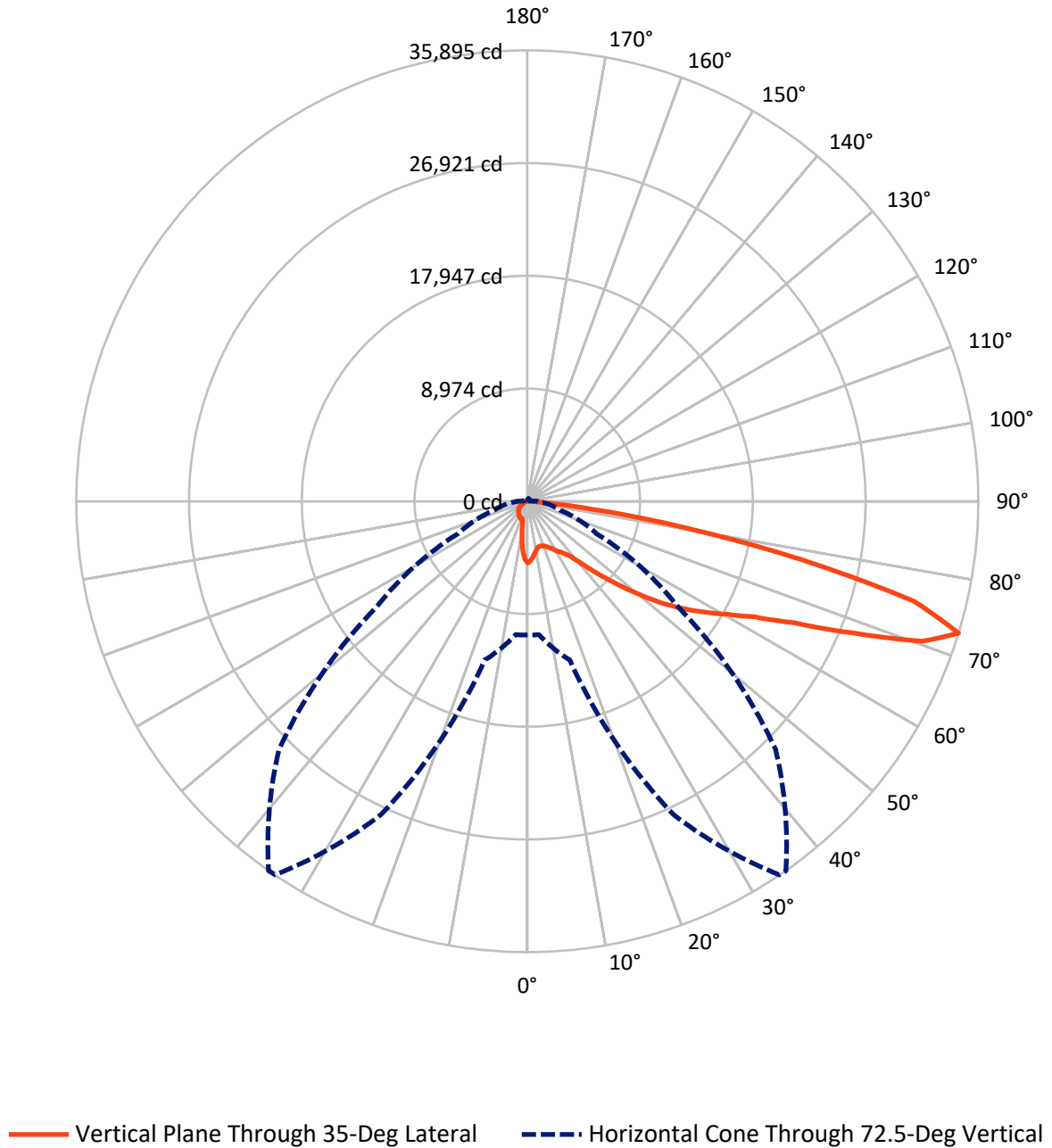
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	3808.9	0.0	3808.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	30034.1	0.0	30034.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	33843.0	0.0	33843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.1	1.2
10°-20°	942.9	2.8
20°-30°	1531.7	4.5
30°-40°	2555.7	7.6
40°-50°	4835.4	14.3
50°-60°	7683.4	22.7
60°-70°	9505.0	28.1
70°-80°	5908.3	17.5
80°-90°	477.5	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°	33843.0	100.0
0°-180°	33843.0	100.0

Coefficient of Utilization



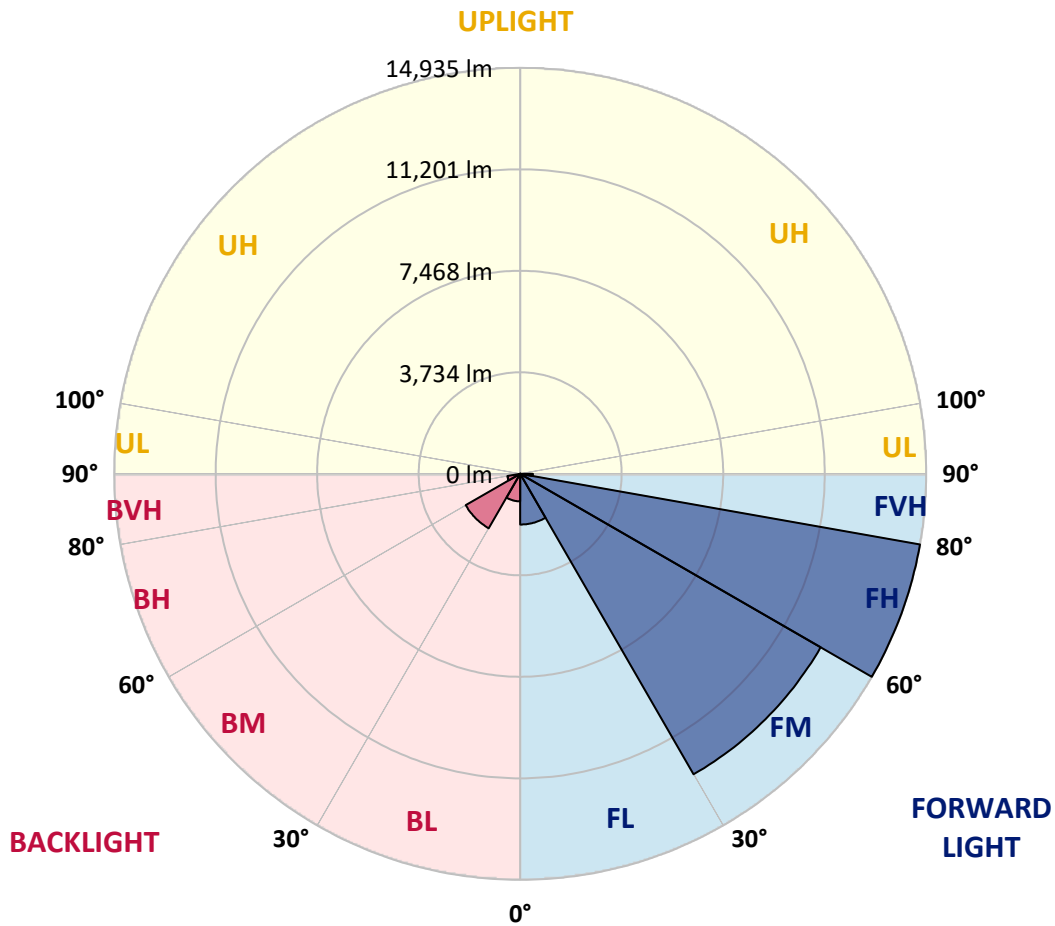
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1865.6	5.5			
FM (30°-60°)	12762.2	37.7			
FH (60°-80°)	14935.3	44.1			G5
FVH (80°-90°)	471.0	1.4			G3/500
BL (0°-30°)	1012.1	3.0	B3/2500		
BM (30°-60°)	2312.3	6.8	B2/2500		
BH (60°-80°)	478.0	1.4	B1/500		G1/500
BVH (80°-90°)	6.5	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°	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0
2.5°	4686.8	4726.4	4733.9	4746.3	4746.3	4761.2	4786.0	4820.7	4877.7	4907.5
5°	4319.8	4349.5	4386.7	4416.5	4473.5	4480.9	4577.7	4671.9	4803.3	4902.5
7.5°	3950.3	3985.0	4034.6	4106.5	4180.9	4203.2	4349.5	4508.2	4716.5	4902.5
10°	3689.9	3692.4	3737.0	3808.9	3928.0	3955.2	4133.8	4359.4	4619.8	4872.7
12.5°	3543.6	3560.9	3580.8	3635.3	3749.4	3766.8	3957.7	4223.0	4523.1	4855.4
15°	3543.6	3556.0	3568.4	3595.7	3687.4	3702.3	3870.9	4136.3	4473.5	4862.8
17.5°	3580.8	3600.6	3590.7	3622.9	3719.7	3729.6	3878.4	4111.5	4471.0	4909.9
20°	3670.1	3684.9	3665.1	3684.9	3781.6	3801.5	3955.2	4158.6	4513.2	4991.8
22.5°	3811.4	3818.8	3771.7	3786.6	3885.8	3910.6	4089.1	4292.5	4614.9	5123.2
25°	3990.0	4004.8	3932.9	3950.3	4044.5	4074.3	4280.1	4493.3	4776.0	5304.2
27.5°	4195.8	4203.2	4141.2	4138.7	4260.2	4302.4	4510.7	4741.3	4991.8	5532.4
30°	4431.3	4453.7	4394.2	4384.2	4538.0	4572.7	4778.5	5046.3	5309.2	5874.6
32.5°	4617.3	4634.7	4600.0	4624.8	4781.0	4808.3	5103.4	5477.8	5807.6	6360.6
35°	4885.1	4895.1	4815.7	4860.3	5038.9	5108.3	5547.2	6082.9	6435.0	6970.6
37.5°	5854.7	5854.7	5517.5	5296.8	5467.9	5529.9	6154.8	6844.2	7208.7	7789.0
40°	7196.3	7174.0	6680.5	6229.2	6206.9	6328.4	7020.2	7803.8	8208.0	8770.9
42.5°	8627.1	8592.4	7920.4	7474.0	7399.6	7441.8	8019.6	8986.7	9398.3	9968.7
45°	9896.8	9886.8	9271.9	8671.8	8537.8	8671.8	9266.9	10370.4	10665.5	11265.6
47.5°	10960.6	10960.6	10511.7	10119.9	10050.5	10129.9	10955.6	11905.4	11878.1	12646.8
50°	12185.6	12175.7	11749.2	11580.5	11652.4	11764.0	12899.8	13522.2	13132.9	14003.3
52.5°	13043.6	13103.1	12956.8	12929.5	13296.5	13489.9	14873.7	15104.3	14256.2	15290.3
55°	13723.0	13792.5	13961.1	14152.0	14858.8	15111.7	16785.6	16604.5	15196.0	16406.2
57.5°	14685.2	14586.0	14846.4	15223.3	16366.5	16671.5	18638.0	18020.5	15952.4	17311.3
60°	15853.2	15868.0	15912.7	16388.8	17871.7	18263.5	20463.1	19359.6	16438.4	17866.7
62.5°	17256.7	17279.0	17370.8	18102.3	19892.7	20262.2	22407.2	20455.6	16661.6	17710.5
65°	17160.0	17254.2	18278.4	20780.5	22965.2	23329.7	24676.2	21224.4	16324.3	16282.2
67.5°	15632.5	15786.2	17499.7	23979.4	27597.4	28004.0	27418.8	21375.6	14868.7	12661.7
70°	13628.8	13683.4	15744.1	26855.9	32961.1	33372.7	29873.8	19711.7	11283.0	7062.4
72.5°	10643.2	10655.6	13073.3	27523.0	35872.4	35894.7	27947.0	14633.1	6068.0	2712.9
75°	7603.0	7528.6	8756.1	22320.4	31560.0	31813.0	20951.6	6864.0	2318.6	1282.0
77.5°	4076.7	4158.6	4954.6	13237.0	21802.1	22233.6	11431.7	1978.9	1180.4	872.9
80°	1259.7	1329.2	2030.9	6060.6	12349.3	12609.6	4237.9	880.3	823.3	622.4
82.5°	396.8	411.6	947.3	2546.7	5125.7	5244.7	1227.5	498.4	562.9	411.6
85°	114.1	116.5	421.6	949.8	1267.2	1292.0	344.7	193.4	322.4	255.4
87.5°	12.4	39.7	158.7	158.7	111.6	109.1	37.2	42.2	91.8	32.2
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°
4905.0	0°	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0
4927.3	2.5°	4914.9	4917.4	4885.1	4830.6	4771.1	4721.5	4659.5	4609.9	4575.2	4565.3
4971.9	5°	4949.6	4932.3	4840.5	4674.4	4476.0	4304.9	4113.9	3962.7	3863.5	3821.3
5019.1	7.5°	5001.7	4952.1	4751.2	4423.9	4044.5	3707.3	3365.0	3099.7	2931.1	2846.8
5063.7	10°	5046.3	4947.1	4602.5	4061.9	3481.6	2970.8	2509.5	2189.6	2011.1	1926.8
5115.8	12.5°	5088.5	4944.7	4409.0	3632.9	2846.8	2221.9	1792.9	1634.2	1584.6	1567.2
5200.1	15°	5167.8	4952.1	4166.0	3141.9	2214.4	1678.8	1522.6	1520.1	1530.0	1525.1
5329.0	17.5°	5277.0	4959.5	3890.8	2621.1	1708.6	1480.4	1473.0	1495.3	1510.2	1502.7
5490.2	20°	5418.3	4989.3	3598.1	2105.3	1468.0	1430.8	1448.2	1468.0	1480.4	1468.0
5706.0	22.5°	5616.7	5041.4	3278.3	1691.2	1391.2	1401.1	1415.9	1438.3	1450.7	1433.3
5981.2	25°	5859.7	5123.2	2963.3	1470.5	1354.0	1366.4	1388.7	1413.5	1428.3	1411.0
6328.4	27.5°	6174.6	5254.6	2673.2	1420.9	1316.8	1324.2	1356.4	1393.6	1413.5	1391.2
6821.8	30°	6630.9	5470.4	2422.7	1443.2	1294.4	1277.1	1321.7	1373.8	1396.1	1376.3
7493.9	32.5°	7236.0	5775.4	2269.0	1477.9	1284.5	1222.5	1264.7	1331.6	1368.8	1356.4
8371.7	35°	8029.5	6239.1	2209.5	1517.6	1277.1	1165.5	1195.2	1267.2	1331.6	1344.0
9477.7	37.5°	8991.6	6883.8	2226.8	1535.0	1254.8	1118.4	1133.3	1195.2	1279.6	1319.2
10722.5	40°	10085.2	7635.2	2326.0	1517.6	1230.0	1078.7	1081.2	1128.3	1202.7	1262.2
12061.6	42.5°	11213.5	8513.1	2509.5	1453.1	1207.6	1044.0	1036.5	1068.8	1118.4	1160.5
13398.2	45°	12287.3	9415.7	2690.6	1363.9	1180.4	1009.3	991.9	1004.3	1014.2	1031.6
14700.1	47.5°	13224.6	10050.5	2638.5	1282.0	1143.2	969.6	939.8	934.9	905.1	902.6
15863.1	50°	13871.8	10189.4	2343.4	1200.2	1088.6	925.0	877.8	848.1	796.0	771.2
16733.5	52.5°	14077.7	9641.3	1914.4	1118.4	999.3	865.4	798.5	751.4	686.9	664.6
17234.4	55°	13804.9	8567.6	1530.0	1019.2	875.4	786.1	711.7	649.7	597.6	570.3
17289.0	57.5°	13137.8	7201.3	1210.1	902.6	743.9	696.8	622.4	560.4	515.8	488.5
16683.9	60°	12031.8	5718.4	957.2	763.8	634.8	600.1	523.2	483.6	443.9	411.6
15121.6	62.5°	10353.0	4081.7	751.4	605.1	530.7	491.0	446.4	416.6	369.5	324.8
12312.1	65°	8079.1	2497.1	580.3	443.9	426.5	406.7	379.4	352.1	295.1	250.5
8032.0	67.5°	5095.9	1182.9	414.1	334.8	337.2	327.3	314.9	292.6	250.5	210.8
3598.1	70°	2244.2	572.8	272.8	255.4	250.5	250.5	260.4	252.9	213.3	176.1
1249.8	72.5°	763.8	307.5	203.3	193.4	181.0	178.5	218.2	210.8	171.1	136.4
622.4	75°	399.2	205.8	148.8	138.9	109.1	131.4	173.6	163.7	121.5	89.3
411.6	77.5°	260.4	146.3	101.7	89.3	62.0	86.8	128.9	114.1	71.9	44.6
270.3	80°	163.7	96.7	59.5	42.2	29.8	47.1	69.4	49.6	27.3	9.9
158.7	82.5°	86.8	49.6	22.3	14.9	12.4	14.9	17.4	12.4	5.0	0.0
81.8	85°	34.7	17.4	7.4	5.0	2.5	0.0	5.0	2.5	0.0	0.0
14.9	87.5°	12.4	2.5	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>
4905.0
4582.6
3836.2
2859.2
1929.3
1562.3
1522.6
1500.3
1465.5
1430.8
1408.5
1391.2
1373.8
1356.4
1344.0
1329.2
1282.0
1177.9
1041.5
900.2
773.7
662.1
570.3
483.6
404.2
317.4
243.0
205.8
168.6
128.9
81.8
39.7
7.4
0.0
0.0
0.0
0.0

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