

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: P942028

Luminaire Tested: **GALN-SB5D-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942028
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-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 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: 34972 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

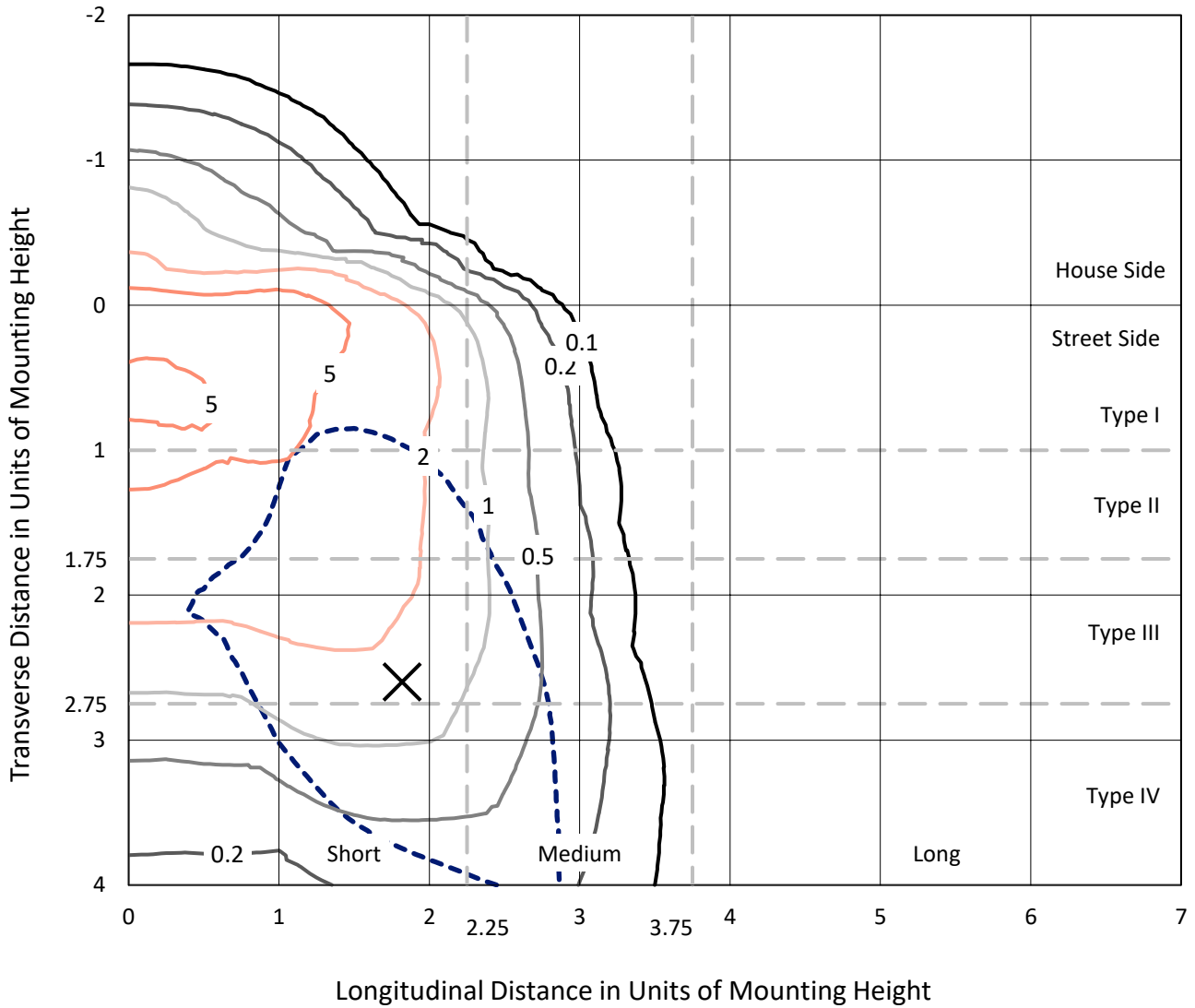
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

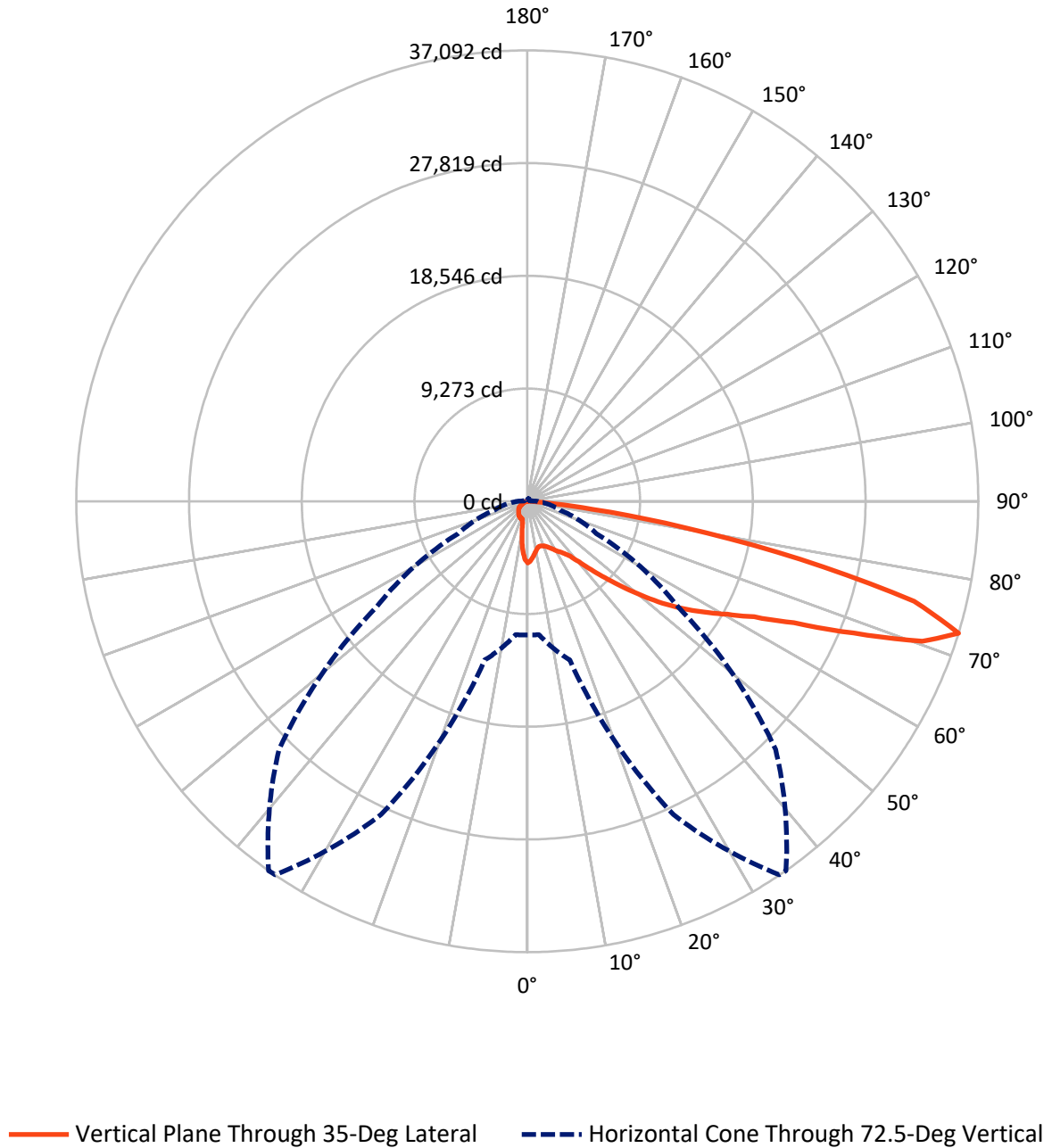
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	3935.9	0.0	3935.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	31036.1	0.0	31036.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	34972.0	0.0	34972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.5	1.2
10°-20°	974.4	2.8
20°-30°	1582.8	4.5
30°-40°	2640.9	7.6
40°-50°	4996.7	14.3
50°-60°	7939.8	22.7
60°-70°	9822.0	28.1
70°-80°	6105.4	17.5
80°-90°	493.4	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°	34972.0	100.0
0°-180°	34972.0	100.0

Coefficient of Utilization



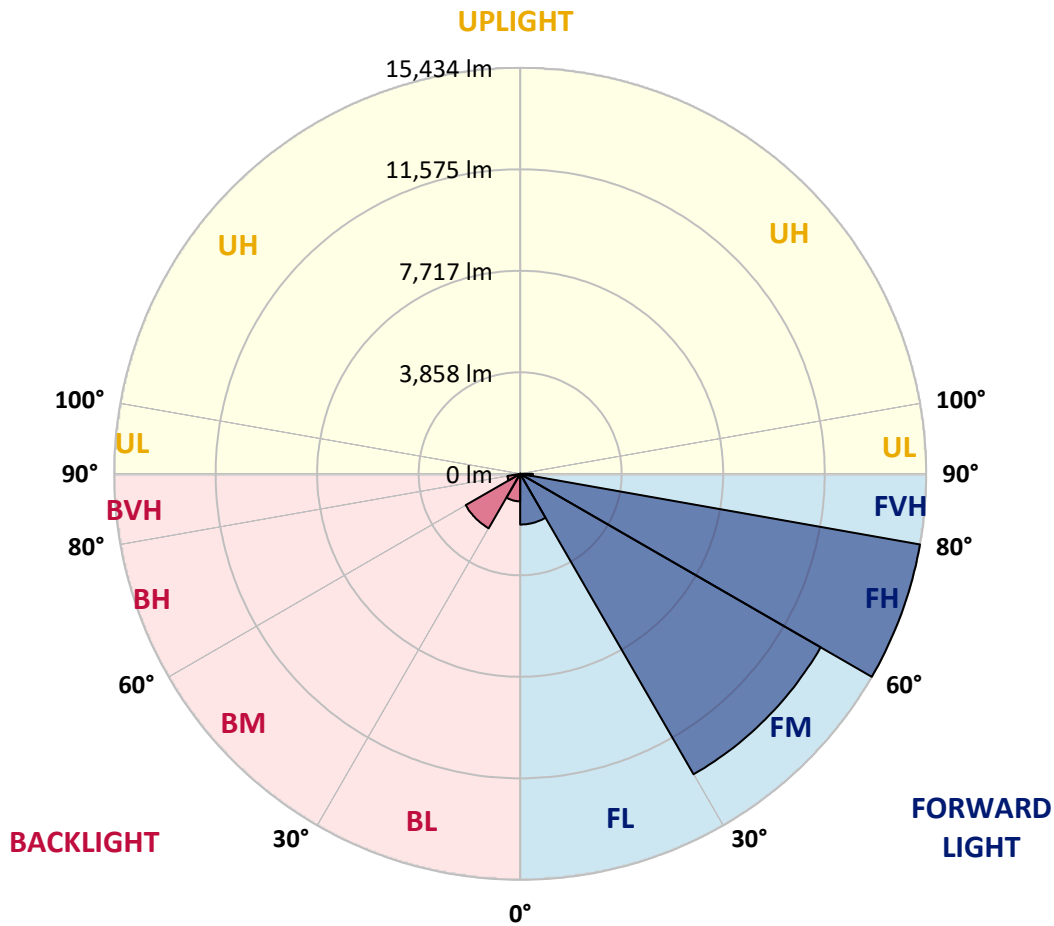
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1927.8	5.5			
FM (30°-60°)	13187.9	37.7			
FH (60°-80°)	15433.6	44.1			G5
FVH (80°-90°)	486.7	1.4			G3/500
BL (0°-30°)	1045.9	3.0	B3/2500		
BM (30°-60°)	2389.5	6.8	B2/2500		
BH (60°-80°)	493.9	1.4	B1/500		G1/500
BVH (80°-90°)	6.7	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°	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6
2.5°	4843.1	4884.1	4891.8	4904.6	4904.6	4920.0	4945.6	4981.5	5040.4	5071.2
5°	4463.9	4494.6	4533.1	4563.8	4622.7	4630.4	4730.4	4827.7	4963.6	5066.1
7.5°	4082.1	4117.9	4169.2	4243.5	4320.4	4343.4	4494.6	4658.6	4873.9	5066.1
10°	3813.0	3815.6	3861.7	3936.0	4059.0	4087.2	4271.7	4504.9	4773.9	5035.3
12.5°	3661.8	3679.7	3700.2	3756.6	3874.5	3892.4	4089.7	4363.9	4674.0	5017.4
15°	3661.8	3674.6	3687.4	3715.6	3810.4	3825.8	4000.1	4274.2	4622.7	5025.1
17.5°	3700.2	3720.7	3710.5	3743.8	3843.7	3854.0	4007.7	4248.6	4620.2	5073.7
20°	3792.5	3807.9	3787.4	3807.9	3907.8	3928.3	4087.2	4297.3	4663.7	5158.3
22.5°	3938.6	3946.2	3897.6	3912.9	4015.4	4041.1	4225.6	4435.7	4768.8	5294.1
25°	4123.1	4138.4	4064.1	4082.1	4179.4	4210.2	4422.9	4643.2	4935.4	5481.2
27.5°	4335.7	4343.4	4279.4	4276.8	4402.4	4445.9	4661.2	4899.5	5158.3	5716.9
30°	4579.2	4602.2	4540.7	4530.5	4689.4	4725.2	4937.9	5214.7	5486.3	6070.6
32.5°	4771.4	4789.3	4753.4	4779.1	4940.5	4968.7	5273.6	5660.6	6001.4	6572.8
35°	5048.1	5058.4	4976.4	5022.5	5207.0	5278.7	5732.3	6285.8	6649.7	7203.2
37.5°	6050.1	6050.1	5701.6	5473.5	5650.3	5714.4	6360.1	7072.5	7449.2	8048.8
40°	7436.4	7413.3	6903.4	6437.0	6413.9	6539.5	7254.4	8064.2	8481.9	9063.5
42.5°	8914.9	8879.0	8184.6	7723.4	7646.5	7690.0	8287.1	9286.5	9711.9	10301.2
45°	10226.9	10216.7	9581.2	8961.0	8822.7	8961.0	9576.0	10716.4	11021.3	11641.4
47.5°	11326.2	11326.2	10862.4	10457.5	10385.8	10467.8	11321.1	12302.5	12274.4	13068.7
50°	12592.1	12581.9	12141.1	11966.9	12041.2	12156.5	13330.1	13973.3	13571.0	14470.4
52.5°	13478.7	13540.2	13389.0	13360.8	13740.1	13940.0	15369.8	15608.2	14731.8	15800.3
55°	14180.8	14252.6	14426.8	14624.2	15354.5	15615.8	17345.5	17158.5	15703.0	16953.5
57.5°	15175.1	15072.6	15341.7	15731.2	16912.5	17227.7	19259.7	18621.7	16484.5	17888.8
60°	16382.0	16397.4	16443.5	16935.5	18467.9	18872.8	21145.7	20005.4	16986.8	18462.8
62.5°	17832.4	17855.5	17950.3	18706.2	20556.3	20938.1	23154.7	21138.0	17217.4	18301.3
65°	17732.5	17829.8	18888.2	21473.7	23731.3	24108.0	25499.4	21932.4	16868.9	16825.3
67.5°	16154.0	16312.8	18083.5	24779.3	28518.0	28938.3	28333.5	22088.7	15364.7	13084.1
70°	14083.5	14139.8	16269.3	27751.8	34060.7	34486.1	30870.4	20369.3	11659.4	7298.0
72.5°	10998.2	11011.0	13509.5	28441.1	37069.1	37092.1	28879.3	15121.3	6270.4	2803.4
75°	7856.6	7779.7	9048.2	23065.0	32612.9	32874.2	21650.5	7093.0	2395.9	1324.8
77.5°	4212.7	4297.3	5119.9	13678.6	22529.5	22975.3	11813.1	2044.9	1219.7	902.0
80°	1301.7	1373.5	2098.7	6262.7	12761.2	13030.3	4379.3	909.7	850.7	643.2
82.5°	410.0	425.4	978.9	2631.7	5296.7	5419.7	1268.4	515.1	581.7	425.4
85°	117.9	120.4	435.6	981.4	1309.4	1335.1	356.2	199.9	333.1	263.9
87.5°	12.8	41.0	164.0	164.0	115.3	112.7	38.4	43.6	94.8	33.3
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°
5068.6	0°	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6
5091.7	2.5°	5078.9	5081.4	5048.1	4991.7	4930.2	4879.0	4814.9	4763.7	4727.8	4717.6
5137.8	5°	5114.7	5096.8	5002.0	4830.3	4625.3	4448.5	4251.2	4094.9	3992.4	3948.8
5186.5	7.5°	5168.6	5117.3	4909.7	4571.5	4179.4	3830.9	3477.3	3203.1	3028.9	2941.7
5232.6	10°	5214.7	5112.2	4756.0	4197.4	3597.7	3069.9	2593.2	2262.7	2078.2	1991.1
5286.4	12.5°	5258.2	5109.6	4556.1	3754.1	2941.7	2296.0	1852.7	1688.7	1637.4	1619.5
5373.6	15°	5340.2	5117.3	4305.0	3246.7	2288.3	1734.8	1573.4	1570.8	1581.1	1575.9
5506.8	17.5°	5453.0	5125.0	4020.6	2708.6	1765.6	1529.8	1522.1	1545.2	1560.6	1552.9
5673.4	20°	5599.1	5155.7	3718.2	2175.6	1517.0	1478.6	1496.5	1517.0	1529.8	1517.0
5896.3	22.5°	5804.1	5209.6	3387.6	1747.6	1437.6	1447.8	1463.2	1486.2	1499.1	1481.1
6180.7	25°	6055.2	5294.1	3062.2	1519.6	1399.1	1411.9	1435.0	1460.6	1476.0	1458.1
6539.5	27.5°	6380.6	5429.9	2762.4	1468.3	1360.7	1368.4	1401.7	1440.1	1460.6	1437.6
7049.4	30°	6852.1	5652.9	2503.6	1491.4	1337.6	1319.7	1365.8	1419.6	1442.7	1422.2
7743.9	32.5°	7477.4	5968.1	2344.7	1527.2	1327.4	1263.3	1306.9	1376.1	1414.5	1401.7
8651.0	35°	8297.4	6447.2	2283.2	1568.2	1319.7	1204.4	1235.1	1309.4	1376.1	1388.9
9793.9	37.5°	9291.6	7113.5	2301.1	1586.2	1296.6	1155.7	1171.1	1235.1	1322.2	1363.2
11080.2	40°	10421.7	7889.9	2403.6	1568.2	1271.0	1114.7	1117.2	1165.9	1242.8	1304.3
12464.0	42.5°	11587.6	8797.0	2593.2	1501.6	1247.9	1078.8	1071.1	1104.4	1155.7	1199.2
13845.2	45°	12697.2	9729.8	2780.3	1409.4	1219.7	1042.9	1025.0	1037.8	1048.1	1066.0
15190.5	47.5°	13665.8	10385.8	2726.5	1324.8	1181.3	1001.9	971.2	966.1	935.3	932.7
16392.3	50°	14334.6	10529.3	2421.6	1240.2	1124.9	955.8	907.1	876.4	822.6	796.9
17291.7	52.5°	14547.3	9963.0	1978.2	1155.7	1032.7	894.3	825.1	776.4	709.8	686.7
17809.3	55°	14265.4	8853.4	1581.1	1053.2	904.6	812.3	735.4	671.4	617.6	589.4
17865.7	57.5°	13576.1	7441.5	1250.5	932.7	768.7	720.1	643.2	579.1	533.0	504.8
17240.5	60°	12433.2	5909.1	989.1	789.2	656.0	620.1	540.7	499.7	458.7	425.4
15626.1	62.5°	10698.4	4217.9	776.4	625.2	548.4	507.4	461.2	430.5	381.8	335.7
12722.8	65°	8348.6	2580.4	599.6	458.7	440.7	420.2	392.1	363.9	304.9	258.8
8299.9	67.5°	5265.9	1222.3	427.9	345.9	348.5	338.2	325.4	302.4	258.8	217.8
3718.2	70°	2319.1	591.9	281.9	263.9	258.8	258.8	269.1	261.4	220.4	181.9
1291.5	72.5°	789.2	317.7	210.1	199.9	187.1	184.5	225.5	217.8	176.8	140.9
643.2	75°	412.6	212.7	153.7	143.5	112.7	135.8	179.4	169.1	125.6	92.2
425.4	77.5°	269.1	151.2	105.1	92.2	64.1	89.7	133.2	117.9	74.3	46.1
279.3	80°	169.1	99.9	61.5	43.6	30.7	48.7	71.7	51.2	28.2	10.2
164.0	82.5°	89.7	51.2	23.1	15.4	12.8	15.4	17.9	12.8	5.1	0.0
84.6	85°	35.9	17.9	7.7	5.1	2.6	0.0	5.1	2.6	0.0	0.0
15.4	87.5°	12.8	2.6	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>
5068.6
4735.5
3964.2
2954.6
1993.6
1614.4
1573.4
1550.3
1514.4
1478.6
1455.5
1437.6
1419.6
1401.7
1388.9
1373.5
1324.8
1217.2
1076.2
930.2
799.5
684.2
589.4
499.7
417.7
328.0
251.1
212.7
174.2
133.2
84.6
41.0
7.7
0.0
0.0
0.0
0.0

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