

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: P954653

Luminaire Tested: **GALN-SB7D-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65898 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

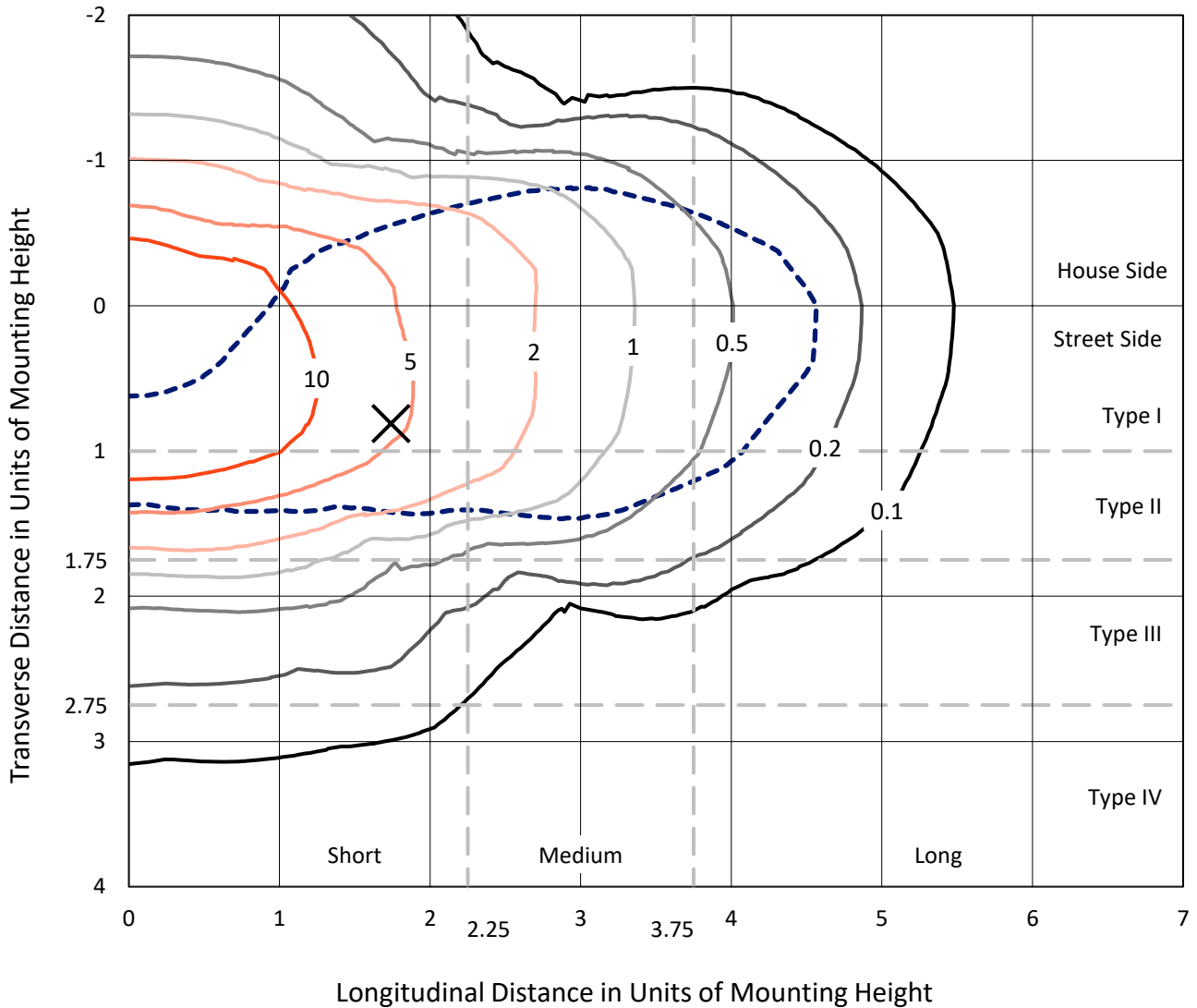
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

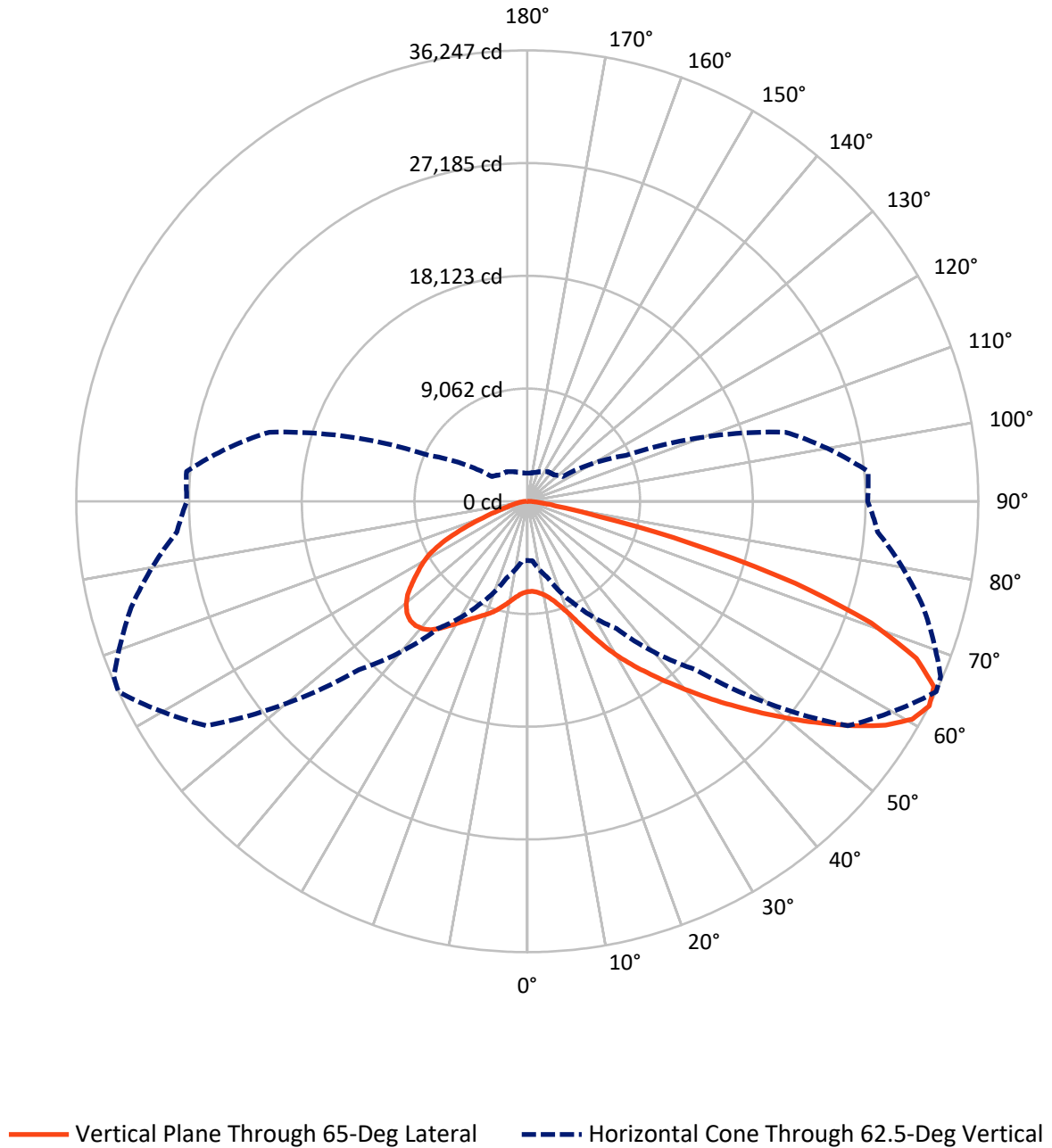
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20794.5	0.0	20794.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	45103.5	0.0	45103.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	65898.0	0.0	65898.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.0	1.1
10°-20°	2455.1	3.7
20°-30°	4977.9	7.6
30°-40°	8614.2	13.1
40°-50°	13036.0	19.8
50°-60°	15283.9	23.2
60°-70°	12813.7	19.4
70°-80°	7074.2	10.7
80°-90°	918.9	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°	65898.0	100.0
0°-180°	65898.0	100.0



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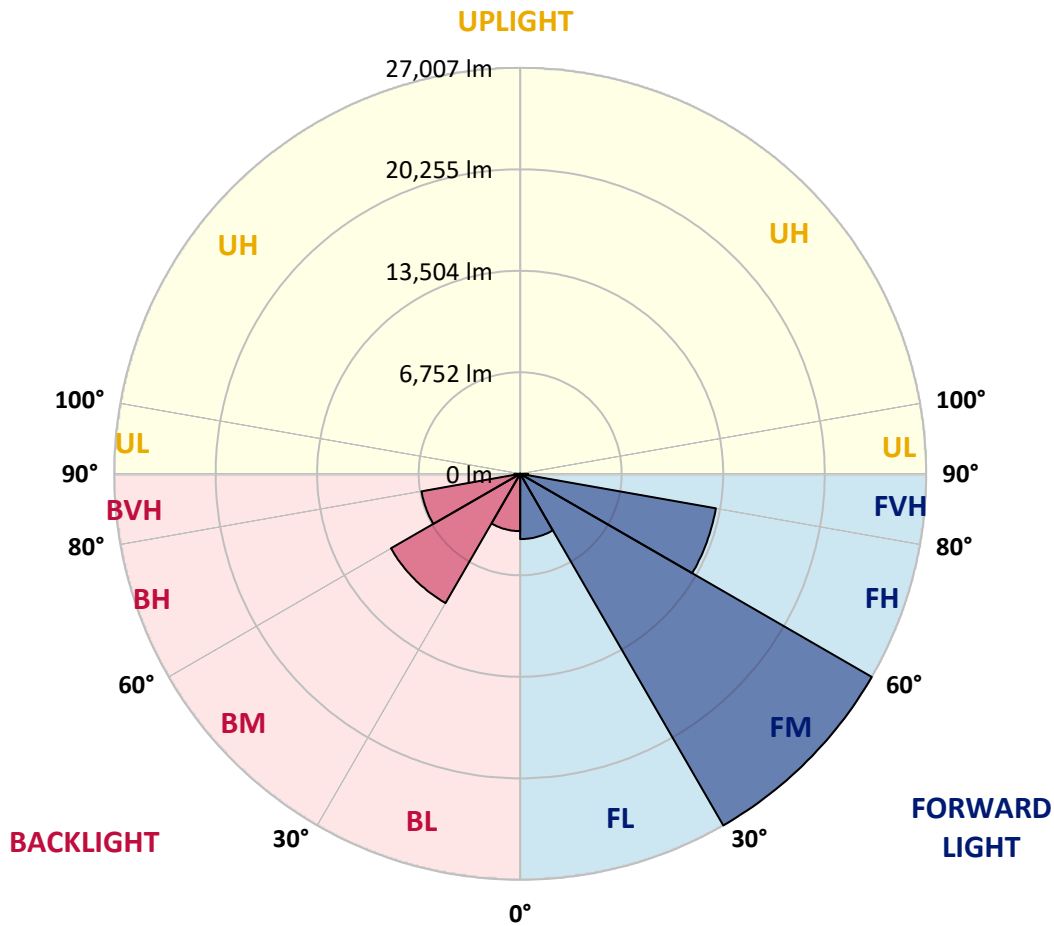
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4343.6	6.6			
FM (30°-60°)	27007.1	41.0			
FH (60°-80°)	13217.2	20.1			G5
FVH (80°-90°)	535.6	0.8			G4/750
BL (0°-30°)	3813.5	5.8	B4/5000		
BM (30°-60°)	9927.0	15.1	B5		
BH (60°-80°)	6670.7	10.1	B5		G5
BVH (80°-90°)	383.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	7261.7	7261.7	7261.7	7261.7	7261.7	7261.7	7261.7	7261.7	7261.7	7261.7
2.5°	7213.8	7193.3	7210.4	7210.4	7217.2	7213.8	7237.7	7244.6	7254.8	7275.3
5°	7142.0	7138.6	7169.4	7196.7	7224.1	7248.0	7278.8	7323.2	7330.1	7354.0
7.5°	7118.1	7097.6	7145.4	7179.6	7244.6	7302.7	7384.8	7460.0	7490.7	7501.0
10°	7302.7	7268.5	7313.0	7333.5	7388.2	7446.3	7542.0	7661.7	7695.9	7736.9
12.5°	7617.2	7579.6	7644.6	7675.4	7726.6	7777.9	7842.9	7959.1	7976.2	8051.4
15°	8048.0	8003.6	8044.6	8082.2	8167.7	8215.5	8280.5	8393.3	8393.3	8451.4
17.5°	8632.6	8574.5	8605.3	8619.0	8673.7	8745.5	8854.9	8954.0	9005.3	8984.8
20°	9504.5	9432.7	9432.7	9364.3	9343.8	9401.9	9545.5	9682.2	9736.9	9630.9
22.5°	10813.9	10711.3	10653.2	10420.7	10328.4	10335.2	10478.8	10646.4	10690.8	10502.8
25°	12478.9	12318.2	12239.5	11897.7	11689.1	11507.9	11620.7	11836.1	11897.7	11665.2
27.5°	14143.9	14154.1	14078.9	13668.6	13323.3	12991.7	12933.6	13159.2	13224.2	12960.9
30°	16478.9	16236.2	16092.6	15600.3	15108.0	14643.0	14403.7	14496.0	14513.1	14198.6
32.5°	18492.7	18431.1	18123.4	17692.6	17060.1	16331.9	15931.9	15784.9	15757.6	15309.7
35°	20786.7	20752.5	20427.7	19914.9	19231.1	18219.1	17497.8	17077.2	17043.1	16414.0
37.5°	23118.4	23118.4	22800.4	22239.7	21532.0	20267.0	19169.6	18502.9	18393.5	17573.0
40°	24978.2	24865.4	24923.5	24687.6	23877.4	22533.8	21026.0	20058.5	19911.5	18926.8
42.5°	26034.7	25997.1	26345.8	26609.0	26277.4	25203.9	23070.5	21744.0	21538.9	20417.5
45°	26270.6	26229.5	26851.8	27815.9	28280.9	27839.8	25292.8	23518.4	23268.8	21976.5
47.5°	25727.0	25644.9	26557.8	28079.2	29569.8	30345.9	27699.7	25443.2	25080.8	23494.5
50°	24092.8	24014.1	25395.3	27415.9	30004.0	32048.5	30311.7	27484.3	26930.4	25121.8
52.5°	20540.6	20578.2	22742.3	25518.4	29433.0	33108.3	32561.3	29634.7	28968.1	26786.8
55°	16000.3	16082.4	18742.2	21798.7	27149.2	32947.6	34096.4	31850.2	31186.9	28352.7
57.5°	11456.6	11819.0	14311.4	17337.1	22762.8	30400.6	34431.4	33956.2	33313.4	30062.1
60°	7425.8	7490.7	10054.9	13104.5	17333.7	25874.0	33751.1	35552.8	35050.2	31805.7
62.5°	4759.1	4803.5	6365.9	9166.0	12475.4	19142.2	31460.4	36246.8	36093.0	32957.9
65°	3497.5	3463.3	4277.0	6058.2	8403.6	11805.3	27012.5	35911.8	36216.1	33679.3
67.5°	2919.7	2871.8	3271.9	4195.0	6191.6	6704.4	19986.7	33734.0	34848.5	33597.2
70°	2659.9	2618.9	2861.6	3114.6	4830.9	4489.0	10075.4	29327.0	31043.3	32663.9
72.5°	2253.0	2181.2	2512.9	2765.9	3757.3	3442.8	4164.2	22526.9	24619.3	29672.3
75°	1747.0	1699.2	1982.9	2434.2	2824.0	2687.2	2632.5	13678.9	15962.7	22947.4
77.5°	1384.6	1319.7	1579.5	1897.5	2540.2	2027.4	1918.0	5890.7	8154.0	14649.8
80°	1042.8	984.6	1200.0	1500.9	1952.2	1528.2	1241.0	2403.5	3073.6	7422.4
82.5°	741.9	690.6	837.6	1100.9	1312.8	1371.0	762.4	1347.0	1514.6	2861.6
85°	475.2	444.5	560.7	690.6	834.2	882.1	465.0	704.3	772.7	1179.5
87.5°	259.8	212.0	300.9	321.4	386.3	352.1	222.2	256.4	276.9	427.4
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°
7261.7	0°	7261.7	7261.7	7261.7	7261.7	7261.7	7261.7	7261.7	7261.7	7261.7	7261.7
7275.3	2.5°	7289.0	7299.3	7333.5	7343.7	7367.7	7398.4	7418.9	7439.5	7439.5	7460.0
7384.8	5°	7388.2	7412.1	7483.9	7521.5	7583.0	7644.6	7682.2	7726.6	7754.0	7767.7
7559.1	7.5°	7579.6	7617.2	7719.8	7784.8	7890.7	7976.2	8034.3	8095.9	8109.6	8147.2
7801.9	10°	7839.5	7883.9	8000.1	8123.2	8249.7	8355.7	8410.4	8454.9	8472.0	8478.8
8113.0	12.5°	8136.9	8201.9	8352.3	8502.7	8636.1	8728.4	8742.0	8731.8	8683.9	8642.9
8495.9	15°	8502.7	8560.8	8728.4	8892.5	9022.4	9039.5	8954.0	8899.3	8841.2	8830.9
8923.2	17.5°	8940.3	8971.1	9125.0	9285.6	9295.9	9237.8	9111.3	9060.0	9005.3	8967.7
9480.5	20°	9449.7	9439.5	9548.9	9617.3	9545.5	9367.7	9176.2	9090.8	9036.1	8991.6
10164.3	22.5°	10058.3	9979.7	9966.0	9948.9	9757.4	9384.8	9125.0	9015.6	8930.1	8868.5
11118.2	25°	10943.8	10642.9	10434.4	10318.1	9887.4	9292.5	8960.9	8718.1	8557.4	8451.4
12284.0	27.5°	12051.5	11545.5	11019.0	10735.2	9887.4	9104.4	8564.3	8171.1	7907.8	7798.4
13412.2	30°	13107.9	12578.0	11801.9	11237.8	9863.4	8796.7	7924.9	7377.9	7070.2	6960.8
14376.3	32.5°	14010.5	13432.7	12632.7	11788.3	9805.3	8297.6	7131.8	6526.6	6229.2	6099.3
15330.2	35°	14848.1	14232.7	13466.9	12393.4	9651.5	7566.0	6259.9	5798.4	5466.8	5258.2
16301.2	37.5°	15706.3	14974.6	14256.7	12940.4	9374.5	6711.2	5589.8	5196.7	4806.9	4526.6
17333.7	40°	16639.6	15764.4	15101.1	13265.2	8919.8	5897.5	5070.2	4711.2	4297.5	4000.1
18523.4	42.5°	17730.2	16711.4	16041.3	13432.7	8297.6	5319.8	4731.7	4379.6	3989.8	3747.1
19798.7	45°	18868.7	17754.2	16899.5	13429.3	7603.6	5049.7	4622.3	4273.6	3842.8	3589.8
21108.1	47.5°	20061.9	18844.8	17641.4	13210.5	7001.8	5087.3	4560.8	4044.5	3569.3	3323.1
22431.2	50°	21258.5	20038.0	18359.3	12800.2	6745.4	5005.2	4331.7	3723.1	3162.5	2940.2
23672.2	52.5°	22444.9	21306.4	18978.1	12215.6	6485.6	4700.9	4037.7	3306.0	2994.9	2841.1
24954.3	55°	23638.0	22561.1	19651.6	11364.3	5836.0	4345.4	3545.4	3148.8	2861.6	2721.4
26209.0	57.5°	24834.7	24010.7	20291.0	10513.0	5018.9	3907.8	3275.3	2957.3	2728.3	2608.6
27258.6	60°	26079.1	25668.9	20950.8	9730.1	4212.0	3347.1	3077.0	2803.5	2571.0	2437.7
28267.2	62.5°	27361.2	27494.5	21467.1	8721.5	3470.2	3005.2	2899.2	2618.9	2393.2	2266.7
29101.4	65°	28653.5	29255.2	21805.5	7323.2	2813.7	2680.4	2707.7	2417.1	2188.1	2078.7
29713.4	67.5°	29627.9	30523.6	21709.8	5542.0	2307.7	2372.7	2468.4	2205.2	1989.8	1904.3
29614.2	70°	29737.3	30373.2	20766.2	3794.9	1931.7	2071.8	2201.8	1996.6	1774.4	1712.9
28219.3	72.5°	28280.9	28321.9	18137.1	2478.7	1634.2	1818.8	1921.4	1784.6	1569.3	1507.7
24687.6	75°	24462.0	23422.7	13316.5	1634.2	1367.5	1562.4	1658.2	1562.4	1353.9	1367.5
18472.1	77.5°	18533.7	16588.3	8085.6	1162.4	1141.9	1312.8	1442.8	1374.4	1196.6	1343.6
9289.1	80°	9548.9	8974.5	3606.9	868.4	902.6	1049.6	1186.3	1097.5	947.0	902.6
2075.3	82.5°	2188.1	2543.6	1422.2	622.2	653.0	755.6	906.0	823.9	680.4	574.4
865.0	85°	765.8	837.6	629.1	389.8	382.9	471.8	615.4	550.4	461.5	369.2
365.8	87.5°	242.7	318.0	235.9	157.3	164.1	212.0	283.8	259.8	215.4	140.2
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°
7261.7
7460.0
7774.5
8133.5
8461.7
8642.9
8830.9
8971.1
8995.0
8889.1
8492.5
7853.1
7025.8
6164.2
5326.6
4601.8
4058.2
3794.9
3630.8
3357.3
2953.9
2841.1
2707.7
2588.1
2427.4
2263.3
2075.3
1907.7
1716.3
1504.3
1319.7
1182.9
823.9
567.5
389.8
147.0
0.0

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