

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: P943387

Luminaire Tested: **GALN-SB7D-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65071 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

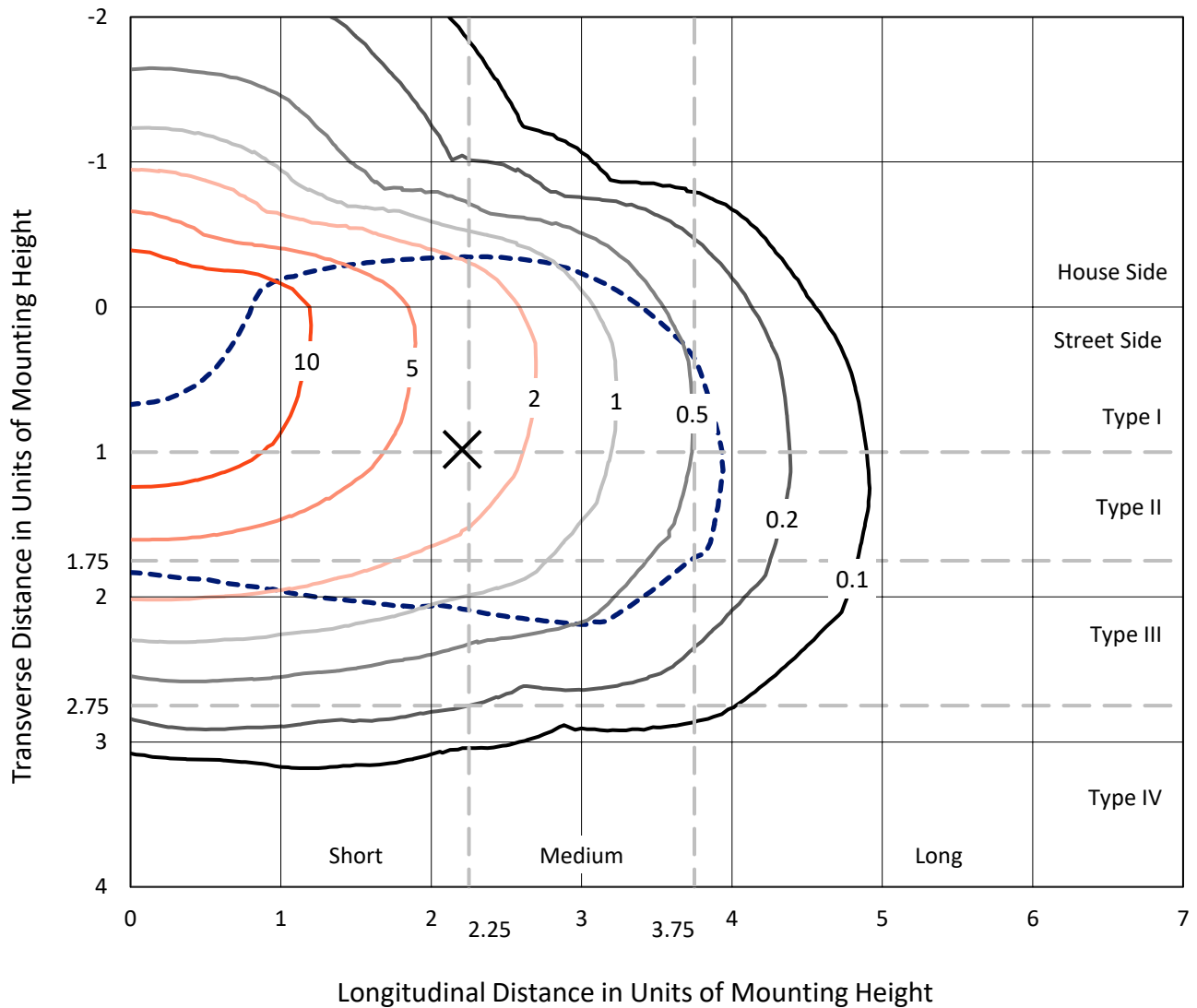
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

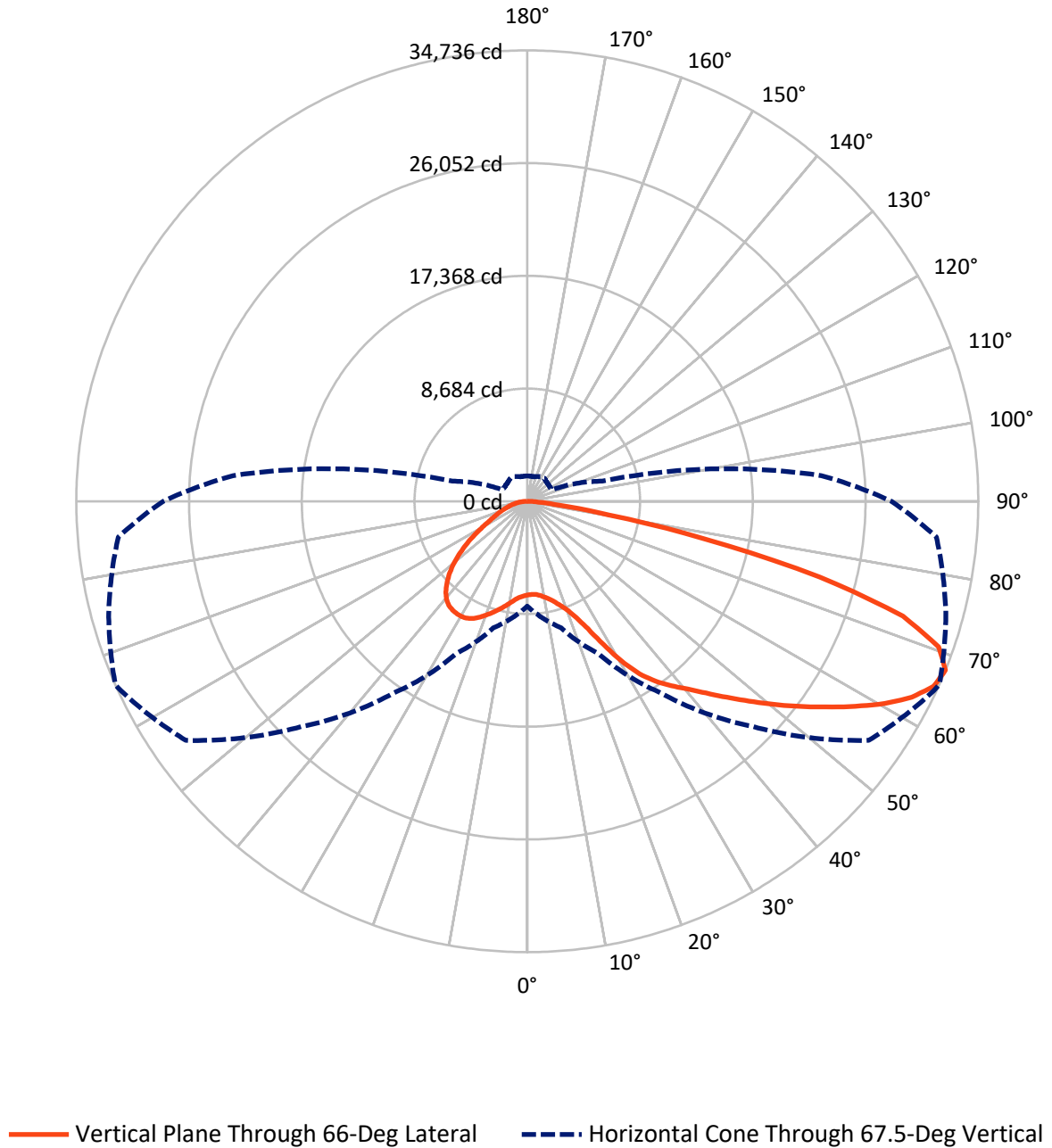
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16179.7	0.0	16179.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	48891.3	0.0	48891.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	65071.0	0.0	65071.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.6	1.1
10°-20°	2364.1	3.6
20°-30°	4556.7	7.0
30°-40°	7989.6	12.3
40°-50°	11877.9	18.3
50°-60°	15056.4	23.1
60°-70°	14732.3	22.6
70°-80°	7027.5	10.8
80°-90°	751.0	1.2
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°	65071.0	100.0
0°-180°	65071.0	100.0

Coefficient of Utilization



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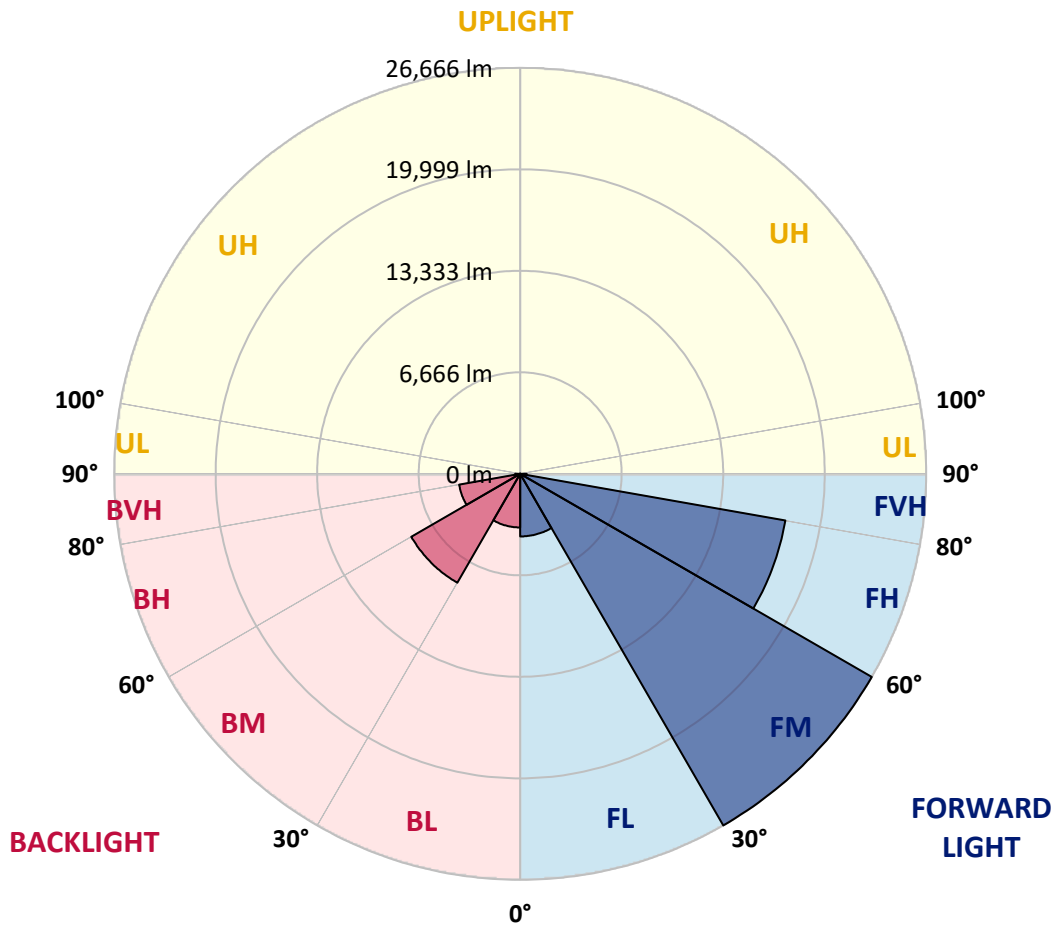
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4111.8	6.3			
FM (30°-60°)	26665.5	41.0			
FH (60°-80°)	17688.1	27.2			G5
FVH (80°-90°)	425.8	0.7			G3/500
BL (0°-30°)	3524.5	5.4	B4/5000		
BM (30°-60°)	8258.3	12.7	B4/8500		
BH (60°-80°)	4071.7	6.3	B4/5000		G4/5000
BVH (80°-90°)	325.2	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	7217.2	7217.2	7217.2	7217.2	7217.2	7217.2	7217.2	7217.2	7217.2	7217.2
2.5°	7142.0	7183.0	7172.8	7155.7	7152.3	7159.1	7169.4	7179.6	7176.2	7193.3
5°	7121.5	7162.5	7159.1	7159.1	7172.8	7200.1	7217.2	7234.3	7217.2	7237.7
7.5°	7135.2	7166.0	7179.6	7193.3	7227.5	7278.8	7319.8	7357.4	7336.9	7360.8
10°	7309.5	7333.5	7347.2	7347.2	7371.1	7429.2	7470.2	7538.6	7521.5	7559.1
12.5°	7627.5	7651.4	7651.4	7637.8	7654.8	7692.5	7706.1	7781.3	7750.6	7812.1
15°	8017.2	8065.1	8027.5	8003.6	8010.4	8048.0	8044.6	8102.7	8072.0	8123.2
17.5°	8448.0	8509.6	8448.0	8444.6	8430.9	8472.0	8475.4	8526.7	8472.0	8509.6
20°	8957.4	9042.9	8991.6	9008.7	8978.0	8995.0	9012.1	9087.4	9001.9	9029.2
22.5°	9675.4	9778.0	9723.3	9788.2	9767.7	9754.0	9750.6	9884.0	9750.6	9760.9
25°	10721.6	10844.7	10748.9	10837.8	10837.8	10882.3	10933.5	11104.5	10882.3	10817.3
27.5°	12266.9	12390.0	12201.9	12256.6	12239.6	12349.0	12294.3	12718.2	12478.9	12372.9
30°	14126.8	14345.6	13990.0	13976.3	13959.2	14133.6	14212.2	14492.6	14249.8	14143.9
32.5°	16137.1	16366.1	15942.2	15819.1	15754.2	15860.1	15795.2	16020.8	15853.3	15689.2
35°	18263.6	18489.2	18085.8	17846.5	17586.7	17364.4	17132.0	17190.1	17032.8	16783.2
37.5°	20273.9	20687.6	20260.2	20003.8	19525.2	19091.0	18441.4	18171.3	18024.3	17795.2
40°	22321.8	22557.7	22232.9	22014.1	21494.4	20814.1	19774.7	19203.8	19005.5	18783.3
42.5°	23829.5	24055.2	23880.8	23730.4	23323.5	22533.8	21190.2	20475.6	20188.4	19938.8
45°	25026.1	25193.7	25084.2	25138.9	24964.6	24198.8	22656.8	21839.7	21542.3	21238.0
47.5°	25508.2	25686.0	25860.3	26185.1	26482.6	25918.5	24232.9	23316.7	23002.2	22691.0
50°	25453.5	25634.7	26140.7	26831.3	27754.4	27566.3	25894.5	24889.4	24598.8	24243.2
52.5°	25015.9	25221.0	25870.6	27019.3	28489.4	28800.6	27586.9	26513.3	26239.8	25815.9
55°	23867.1	23990.2	24964.6	26592.0	28663.8	29662.1	29245.0	28243.3	27969.8	27378.3
57.5°	21737.2	21915.0	23333.8	25439.8	28226.2	30246.7	30701.4	30062.1	29798.9	28947.6
60°	18957.6	19241.4	20865.4	23504.7	27111.6	30243.3	32024.6	31850.2	31631.4	30492.9
62.5°	15812.3	16140.5	17702.9	20769.6	25162.9	29385.2	32851.9	33347.7	33234.8	31918.6
65°	12143.8	12369.5	13925.1	17231.1	22130.3	27542.4	32947.6	34369.9	34390.4	33002.3
67.5°	8085.6	8735.2	10085.7	12930.2	18068.7	24530.4	32106.6	34537.4	34735.7	33375.0
70°	3945.4	4800.1	6123.2	8403.6	12930.2	19911.5	29908.3	33163.0	33604.1	32287.8
72.5°	1637.6	1914.6	2635.9	4147.1	7422.4	13436.2	25491.1	29436.5	30253.6	28609.1
75°	1104.3	1196.6	1507.7	2126.5	3381.3	6625.8	18383.3	21949.1	23265.4	21607.3
77.5°	851.3	909.4	1097.5	1487.2	2010.3	2506.0	9839.5	13227.6	13908.0	12875.5
80°	670.1	714.5	820.5	1083.8	1425.7	1340.2	3353.9	5993.3	6386.4	5357.4
82.5°	581.2	598.3	588.0	735.1	947.0	782.9	1100.9	2212.0	2441.1	1771.0
85°	420.5	468.4	488.9	454.7	502.6	396.6	451.3	782.9	861.6	769.2
87.5°	170.9	253.0	311.1	294.0	184.6	112.8	140.2	229.1	263.3	287.2
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°
7217.2	0°	7217.2	7217.2	7217.2	7217.2	7217.2	7217.2	7217.2	7217.2	7217.2	7217.2
7220.7	2.5°	7224.1	7248.0	7265.1	7285.6	7299.3	7319.8	7360.8	7384.8	7388.2	7405.3
7275.4	5°	7289.0	7323.2	7360.8	7415.5	7477.1	7528.4	7607.0	7661.7	7682.2	7699.3
7408.7	7.5°	7429.2	7477.1	7545.4	7641.2	7730.1	7798.4	7894.2	7959.1	8024.1	8048.0
7620.7	10°	7637.8	7706.1	7805.3	7935.2	8030.9	8119.8	8219.0	8273.7	8338.6	8366.0
7873.7	12.5°	7897.6	7969.4	8099.3	8280.5	8369.4	8430.9	8465.1	8451.4	8465.1	8489.1
8177.9	15°	8195.0	8273.7	8420.7	8615.6	8677.1	8622.4	8547.2	8478.8	8468.5	8475.4
8547.2	17.5°	8547.2	8605.3	8776.2	8940.3	8895.9	8670.3	8506.1	8396.7	8342.0	8324.9
9019.0	20°	9039.5	9039.5	9179.7	9282.2	8984.8	8601.9	8345.5	8167.7	8054.9	8007.0
9661.7	22.5°	9637.8	9583.1	9672.0	9600.2	8967.7	8410.4	8054.9	7747.2	7576.2	7507.8
10560.9	25°	10396.8	10331.8	10307.9	9863.4	8844.6	8106.1	7528.4	7155.7	7005.3	6967.7
11856.6	27.5°	11542.1	11378.0	11066.9	10007.0	8619.0	7627.5	6913.0	6567.6	6482.2	6485.6
13521.6	30°	13066.9	12738.7	11976.3	10031.0	8249.7	6950.6	6283.9	6037.7	5996.7	6013.8
14919.9	32.5°	14478.9	14167.8	12906.2	9921.6	7682.2	6287.3	5719.8	5555.7	5494.1	5514.6
15986.6	35°	15586.6	15501.2	13767.8	9767.7	6984.8	5665.1	5213.8	5073.6	4953.9	4926.6
16991.8	37.5°	16632.8	16598.6	14414.0	9552.3	6294.1	5224.0	4806.9	4622.3	4447.9	4352.2
18102.9	40°	17781.5	17747.4	14837.9	9220.7	5682.2	4841.1	4441.1	4198.4	3983.0	3808.6
19361.1	42.5°	19073.9	18872.2	15039.6	8745.5	5162.5	4516.3	4143.7	3815.5	3531.7	3371.0
20783.3	45°	20485.9	20031.2	15036.2	8140.3	4724.9	4218.9	3825.7	3360.7	3097.5	2947.1
22243.2	47.5°	21983.3	21138.9	14851.6	7470.2	4300.9	3890.7	3333.4	2977.8	2803.5	2711.2
23829.5	50°	23528.7	22174.8	14537.0	6701.0	3866.7	3518.0	3025.7	2783.0	2649.6	2564.2
25402.2	52.5°	24981.7	23115.0	14157.5	5829.2	3425.7	3155.6	2888.9	2700.9	2560.7	2465.0
26927.0	55°	26332.1	23925.2	13620.8	4936.8	3066.7	2912.9	2824.0	2666.7	2506.0	2393.2
28475.8	57.5°	27532.2	24451.8	12694.3	4099.2	2810.3	2745.4	2755.6	2608.6	2424.0	2328.3
30000.6	60°	28530.5	24838.1	11323.3	3323.1	2601.8	2581.2	2649.6	2499.2	2283.8	2174.4
31289.5	62.5°	29128.8	24831.3	9641.2	2721.4	2424.0	2430.8	2509.5	2362.4	2143.6	2041.1
31963.0	65°	29077.5	24222.7	7795.0	2328.3	2253.0	2259.9	2362.4	2212.0	2027.4	1965.9
31624.5	67.5°	28048.4	22738.9	5979.6	2071.8	2065.0	2095.8	2215.4	2109.4	1955.6	1948.8
29607.4	70°	25262.0	19658.5	4307.8	1866.7	1870.1	1914.6	2071.8	2044.5	1918.0	1931.7
24892.8	72.5°	20256.8	14988.3	2892.4	1651.3	1654.7	1726.5	1935.1	1993.2	1880.4	2061.6
17661.9	75°	13490.9	9347.2	1859.9	1422.2	1425.7	1518.0	1815.4	1894.1	1777.8	2054.7
9189.9	77.5°	6482.2	4201.8	1347.0	1196.6	1196.6	1282.1	1569.3	1695.8	1514.6	1596.6
2953.9	80°	2239.4	1579.5	1059.8	964.1	943.6	1001.7	1323.1	1470.1	1306.0	1203.4
964.1	82.5°	882.1	820.5	851.3	748.7	680.4	718.0	1029.1	1213.7	960.7	868.4
543.6	85°	506.0	533.3	601.7	495.7	393.2	441.0	755.6	871.8	724.8	639.3
177.8	87.5°	136.8	188.0	276.9	256.4	177.8	188.0	359.0	482.1	417.1	321.4
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°
7217.2
7401.9
7695.9
8051.4
8379.6
8495.9
8499.3
8348.9
7996.7
7497.6
6974.5
6495.9
6071.9
5542.0
4947.1
4355.6
3825.7
3381.3
2940.2
2690.7
2533.4
2424.0
2348.8
2266.7
2126.5
2010.3
1962.4
1959.0
1928.2
2088.9
2071.8
1463.3
1128.2
865.0
653.0
331.6
0.0

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