

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: P955407

Luminaire Tested: **GALN-SB8B-840-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-840-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44362 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

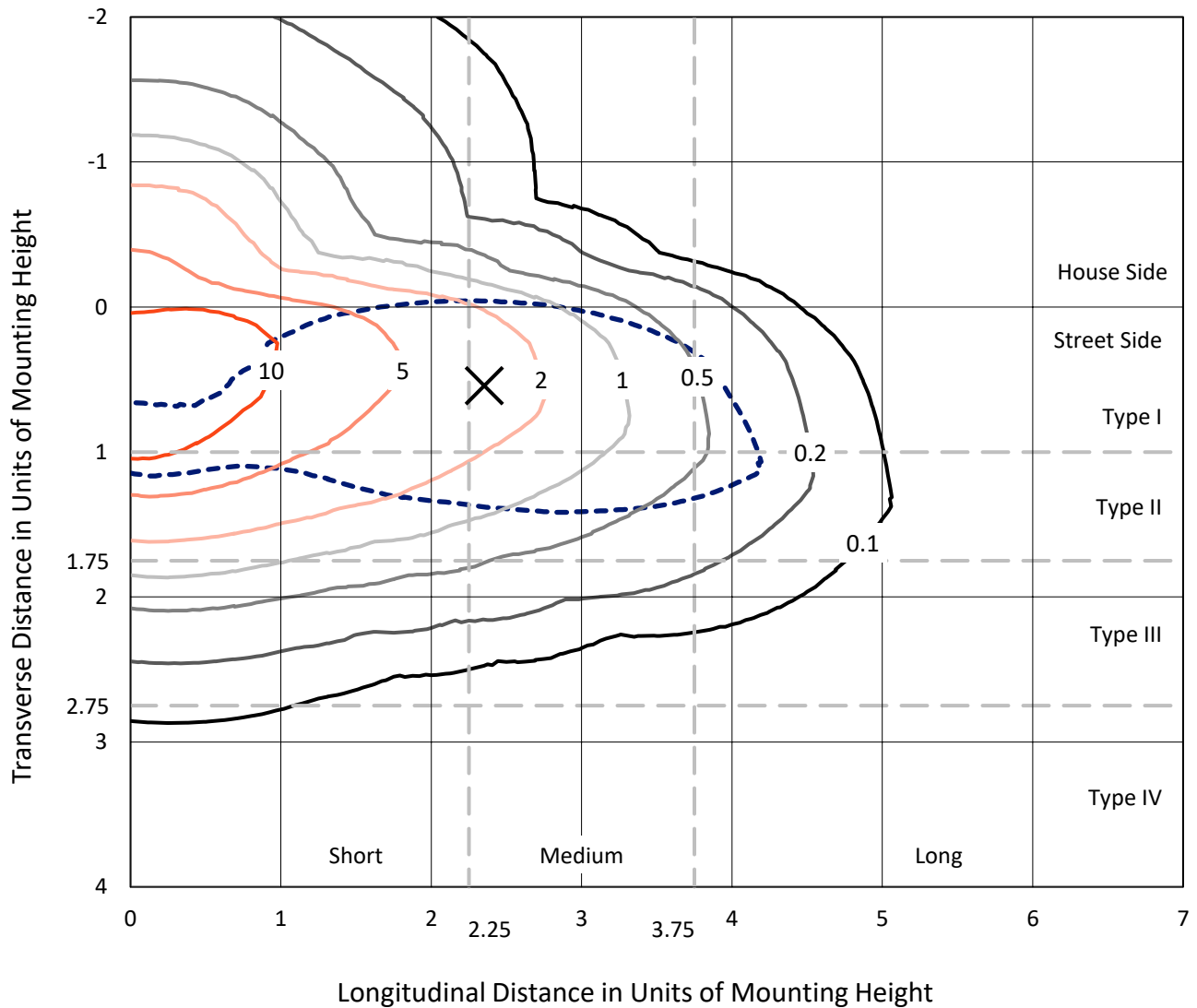
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

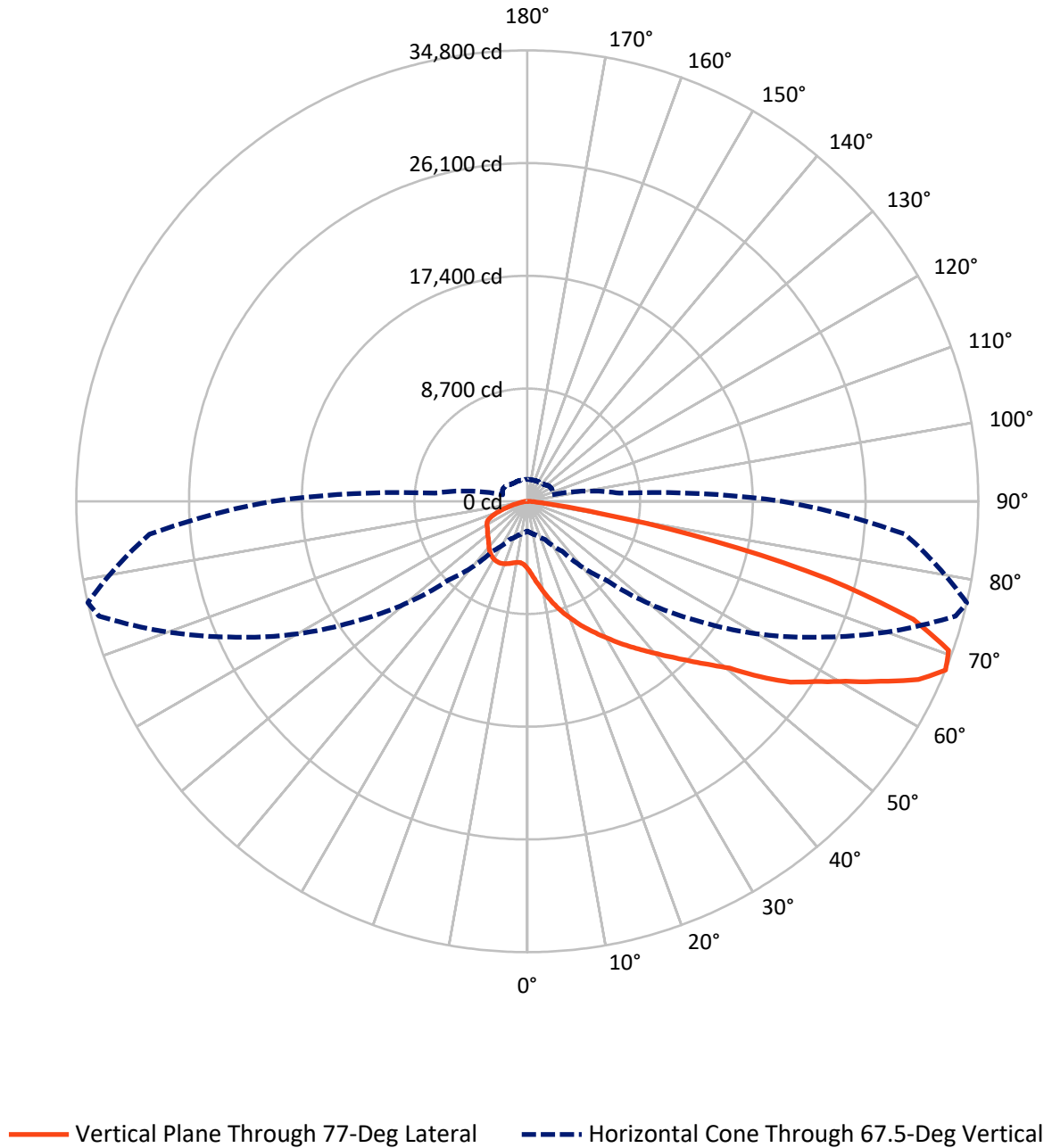
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8391.5	0.0	8391.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	35970.5	0.0	35970.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	44362.0	0.0	44362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.9	1.3
10°-20°	2004.3	4.5
20°-30°	3784.4	8.5
30°-40°	6096.6	13.7
40°-50°	8339.1	18.8
50°-60°	9406.5	21.2
60°-70°	8779.8	19.8
70°-80°	4812.8	10.8
80°-90°	580.5	1.3
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°	44362.0	100.0
0°-180°	44362.0	100.0

Coefficient of Utilization



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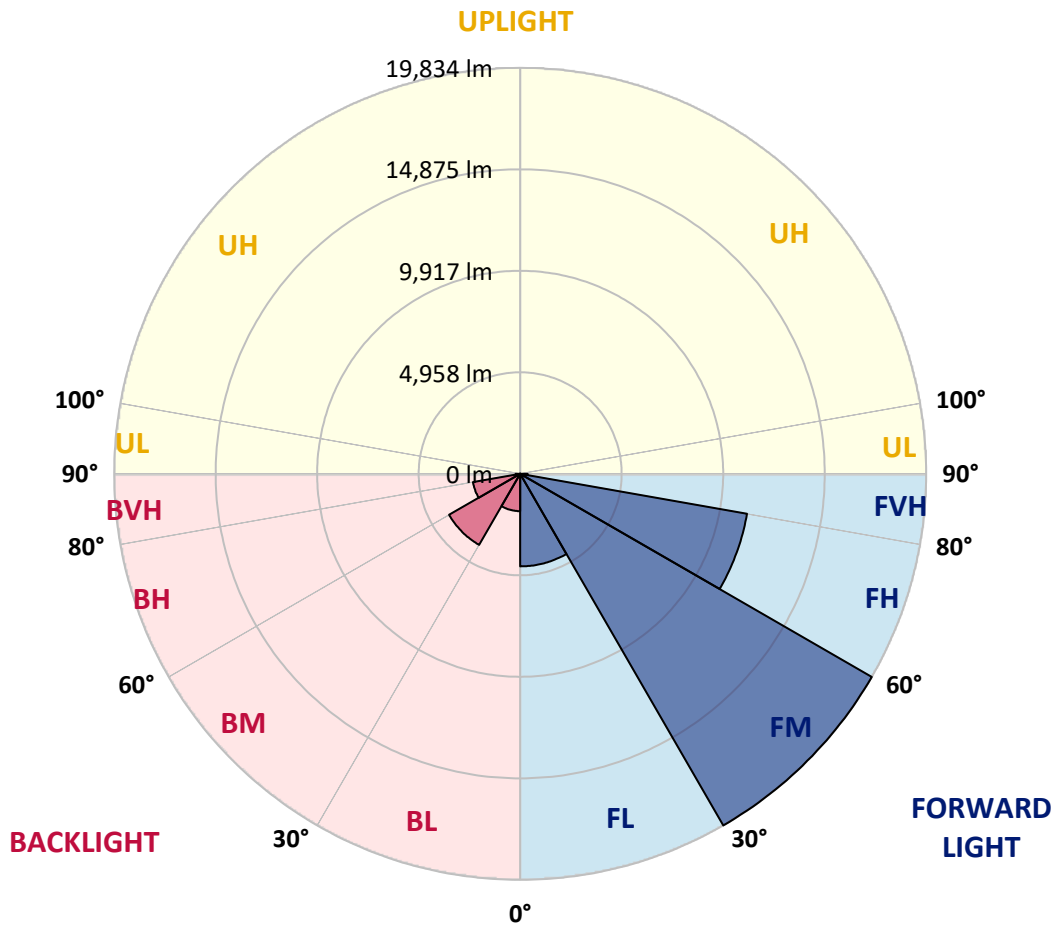
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4522.2	10.2			
FM (30°-60°)	19833.8	44.7			
FH (60°-80°)	11251.5	25.4			G4/12000
FVH (80°-90°)	363.1	0.8			G3/500
BL (0°-30°)	1824.5	4.1	B3/2500		
BM (30°-60°)	4008.4	9.0	B3/5000		
BH (60°-80°)	2341.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	217.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5205.0	5205.0	5205.0	5205.0	5205.0	5205.0	5205.0	5205.0	5205.0	5205.0
2.5°	6517.2	6563.0	6505.7	6505.7	6313.4	6212.6	6020.3	5873.7	5610.4	5564.6
5°	7703.4	7760.6	7680.5	7646.1	7419.4	7211.0	6888.1	6569.8	6100.4	6052.3
7.5°	8621.6	8694.9	8623.9	8587.3	8385.8	8152.2	7774.4	7330.1	6668.3	6574.4
10°	9370.4	9381.9	9359.0	9372.7	9214.7	9022.4	8635.4	8117.8	7291.2	7162.9
12.5°	9794.1	9846.8	9892.6	9975.0	9947.5	9828.4	9480.4	8862.1	7950.7	7785.8
15°	9993.3	10084.9	10188.0	10378.0	10531.4	10561.2	10295.6	9661.3	8621.6	8422.4
17.5°	10064.3	10151.3	10313.9	10588.7	10918.4	11140.6	11021.5	10437.6	9285.7	9056.7
20°	10423.8	10449.0	10547.5	10808.5	11165.8	11534.4	11623.8	11184.1	9942.9	9684.2
22.5°	11193.2	11142.9	11170.3	11289.4	11545.9	11903.1	12106.9	11843.6	10618.5	10320.8
25°	12464.2	12317.6	12171.0	12033.7	12164.2	12365.7	12597.0	12503.1	11326.1	10948.2
27.5°	14069.4	13890.8	13567.9	13116.8	12958.8	13029.8	13132.8	13114.5	11981.0	11598.6
30°	15649.5	15441.1	15056.4	14403.7	13987.0	13799.2	13721.3	13668.7	12693.2	12285.5
32.5°	16911.2	16746.4	16368.5	15638.0	15033.5	14712.9	14454.1	14266.3	13437.4	13029.8
35°	18015.0	17861.6	17428.8	16631.9	15974.6	15633.4	15294.5	14893.8	14211.4	13799.2
37.5°	19022.6	18869.1	18276.0	17447.1	16785.3	16549.4	16247.1	15567.0	14987.7	14598.4
40°	19659.2	19624.8	19070.6	18131.8	17444.8	17328.0	17227.2	16347.9	15848.7	15486.9
42.5°	19821.7	19897.3	19457.6	18685.9	18031.0	17937.1	18173.0	17231.8	16815.1	16469.3
45°	19430.2	19647.7	19359.2	18834.8	18447.8	18397.4	19011.1	18198.2	17884.5	17568.4
47.5°	18438.6	18807.3	18688.2	18614.9	18560.0	18777.5	19748.5	19224.1	19095.8	18821.0
50°	16437.2	17135.6	17344.0	17806.6	18337.9	19072.9	20419.4	20343.9	20511.0	20233.9
52.5°	12977.1	13938.9	15148.0	16306.7	17655.5	18974.5	21156.8	21951.4	22656.7	22505.6
55°	10712.4	11145.2	12074.9	14199.9	16331.9	18560.0	21488.8	23249.8	24786.3	24651.2
57.5°	8972.0	9359.0	9931.5	11706.2	14330.5	17618.8	21694.9	24042.1	26245.0	26231.3
60°	7105.7	7515.6	8101.8	9359.0	11992.4	15993.0	21649.1	24944.4	28106.8	28221.3
62.5°	4998.9	5450.1	6100.4	7272.9	9604.0	13886.2	20714.8	25597.0	30298.2	30609.7
65°	3286.1	3583.8	4073.8	5086.0	7156.1	11177.2	18931.0	25681.7	32643.1	33169.8
67.5°	2303.7	2418.2	2706.7	3256.3	4717.3	8571.3	16089.1	24804.7	34207.2	34800.3
70°	1797.6	1854.9	2001.4	2221.2	2963.2	5763.8	12329.1	22523.9	33872.8	34491.1
72.5°	1552.6	1607.5	1662.5	1690.0	1987.7	3558.6	8351.4	18832.5	30724.2	31143.2
75°	1408.3	1422.1	1467.9	1458.7	1515.9	2308.3	4820.3	13721.3	24241.3	24097.1
77.5°	1183.9	1202.2	1277.8	1266.3	1346.5	1577.8	2502.9	8855.2	15715.9	14735.8
80°	1003.0	1012.2	1094.6	1080.9	1170.2	1142.7	1277.8	4513.5	6666.0	5647.0
82.5°	348.1	430.5	835.8	861.0	893.1	691.6	737.4	1841.1	2035.8	1559.5
85°	169.5	180.9	425.9	604.5	602.3	348.1	359.5	657.2	641.2	503.8
87.5°	27.5	34.3	50.4	235.9	187.8	91.6	123.7	128.2	132.8	114.5
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°
5205.0	0°	5205.0	5205.0	5205.0	5205.0	5205.0	5205.0	5205.0	5205.0	5205.0	5205.0
5390.5	2.5°	5262.3	5147.8	4907.3	4685.2	4511.2	4344.0	4250.1	4170.0	4124.2	4115.0
5642.4	5°	5404.3	5168.4	4731.0	4362.3	4121.9	3943.3	3849.4	3789.9	3760.1	3741.8
5981.3	7.5°	5608.1	5262.3	4639.4	4220.4	3968.5	3840.2	3792.1	3783.0	3780.7	3783.0
6391.2	10°	5889.7	5415.7	4630.3	4186.0	3975.3	3904.4	3902.1	3904.4	3913.5	3915.8
6837.8	12.5°	6194.3	5573.7	4666.9	4215.8	4062.4	4023.4	4016.6	4014.3	4021.1	4025.7
7288.9	15°	6526.3	5782.1	4728.7	4279.9	4158.5	4117.3	4110.4	4096.7	4094.4	4092.1
7762.9	17.5°	6867.5	5988.2	4797.4	4348.6	4220.4	4163.1	4137.9	4105.9	4080.7	4073.8
8253.0	20°	7213.3	6192.0	4845.5	4383.0	4224.9	4144.8	4094.4	4039.5	3996.0	3970.8
8747.6	22.5°	7582.0	6405.0	4875.3	4373.8	4183.7	4073.8	3982.2	3918.1	3851.7	3808.2
9246.8	25°	7941.5	6590.5	4873.0	4325.7	4103.6	3963.9	3847.1	3764.7	3673.1	3627.3
9762.0	27.5°	8287.3	6757.6	4815.8	4241.0	3989.1	3833.4	3693.7	3595.2	3505.9	3462.4
10281.8	30°	8644.5	6897.3	4726.4	4117.3	3854.0	3682.2	3528.8	3444.1	3363.9	3322.7
10831.4	32.5°	8999.5	7025.5	4600.5	3963.9	3698.3	3533.4	3382.2	3304.4	3256.3	3256.3
11422.2	35°	9375.0	7114.9	4433.3	3785.3	3533.4	3375.4	3256.3	3210.5	3205.9	3178.4
12047.4	37.5°	9771.2	7172.1	4229.5	3602.1	3370.8	3222.0	3185.3	3130.4	3084.6	3025.0
12734.4	40°	10188.0	7229.4	3984.5	3412.0	3199.1	3116.6	3100.6	3027.3	2896.8	2750.2
13513.0	42.5°	10694.0	7268.3	3730.3	3222.0	3018.1	2990.7	3013.6	2887.6	2679.2	2569.3
14451.8	45°	11280.3	7332.4	3496.7	3034.2	2832.7	2832.7	2928.8	2764.0	2592.2	2523.5
15523.5	47.5°	12040.5	7481.2	3279.2	2828.1	2660.9	2706.7	2741.1	2615.1	2518.9	2434.2
16828.8	50°	13139.7	7838.5	3054.8	2619.7	2530.4	2622.0	2573.9	2500.6	2388.4	2319.7
18903.5	52.5°	14504.5	8049.2	2855.6	2431.9	2418.2	2509.8	2441.1	2372.4	2287.7	2196.1
20476.7	55°	15434.2	8088.1	2688.4	2294.5	2342.6	2333.5	2308.3	2246.4	2200.6	2079.3
22029.3	57.5°	16473.9	8165.9	2551.0	2212.1	2294.5	2193.8	2184.6	2131.9	2072.4	1990.0
23923.0	60°	17717.3	8287.3	2431.9	2180.0	2253.3	2102.2	2056.4	2035.8	1976.2	1935.0
26201.5	62.5°	19072.9	8397.2	2310.6	2184.6	2205.2	2012.9	1944.2	1937.3	1900.7	1886.9
28340.3	65°	19998.1	8097.2	2159.4	2180.0	2129.6	1921.3	1834.2	1832.0	1802.2	1797.6
29267.8	67.5°	19675.2	7146.9	1955.6	2115.9	2051.8	1829.7	1733.5	1724.3	1685.4	1687.7
28299.1	70°	18058.5	5791.3	1673.9	1957.9	1955.6	1747.2	1628.1	1598.4	1545.7	1554.9
24605.4	72.5°	15026.6	4291.4	1296.1	1694.6	1802.2	1671.7	1506.8	1458.7	1392.3	1401.4
18163.8	75°	10852.0	2917.4	943.5	1289.2	1568.6	1582.4	1387.7	1305.3	1225.1	1238.9
10110.1	77.5°	5553.1	1653.3	693.9	888.5	1232.0	1438.1	1280.1	1170.2	1151.8	1280.1
2915.1	80°	1811.3	829.0	480.9	622.9	808.3	1177.0	1122.1	996.1	991.5	1021.3
611.4	82.5°	540.4	350.4	309.1	409.9	446.5	902.2	968.6	753.4	648.1	682.4
203.8	85°	185.5	169.5	176.3	203.8	213.0	529.0	677.8	499.2	471.7	519.8
45.8	87.5°	43.5	59.5	50.4	45.8	45.8	128.2	263.3	208.4	288.5	192.4
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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<u>180°</u>
5205.0
4115.0
3739.5
3789.9
3918.1
4028.0
4089.8
4080.7
3979.9
3810.5
3627.3
3460.1
3320.4
3258.6
3171.6
3015.9
2729.6
2571.6
2535.0
2431.9
2312.8
2177.7
2081.6
1962.5
1946.5
1886.9
1795.3
1687.7
1564.0
1399.2
1243.4
1261.8
877.0
705.3
512.9
185.5
0.0

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