

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: P956688

Luminaire Tested: **GALN-SB9B-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956688
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-SB9B-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52241 lumens
Efficiency: N/A
Efficacy: 158.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

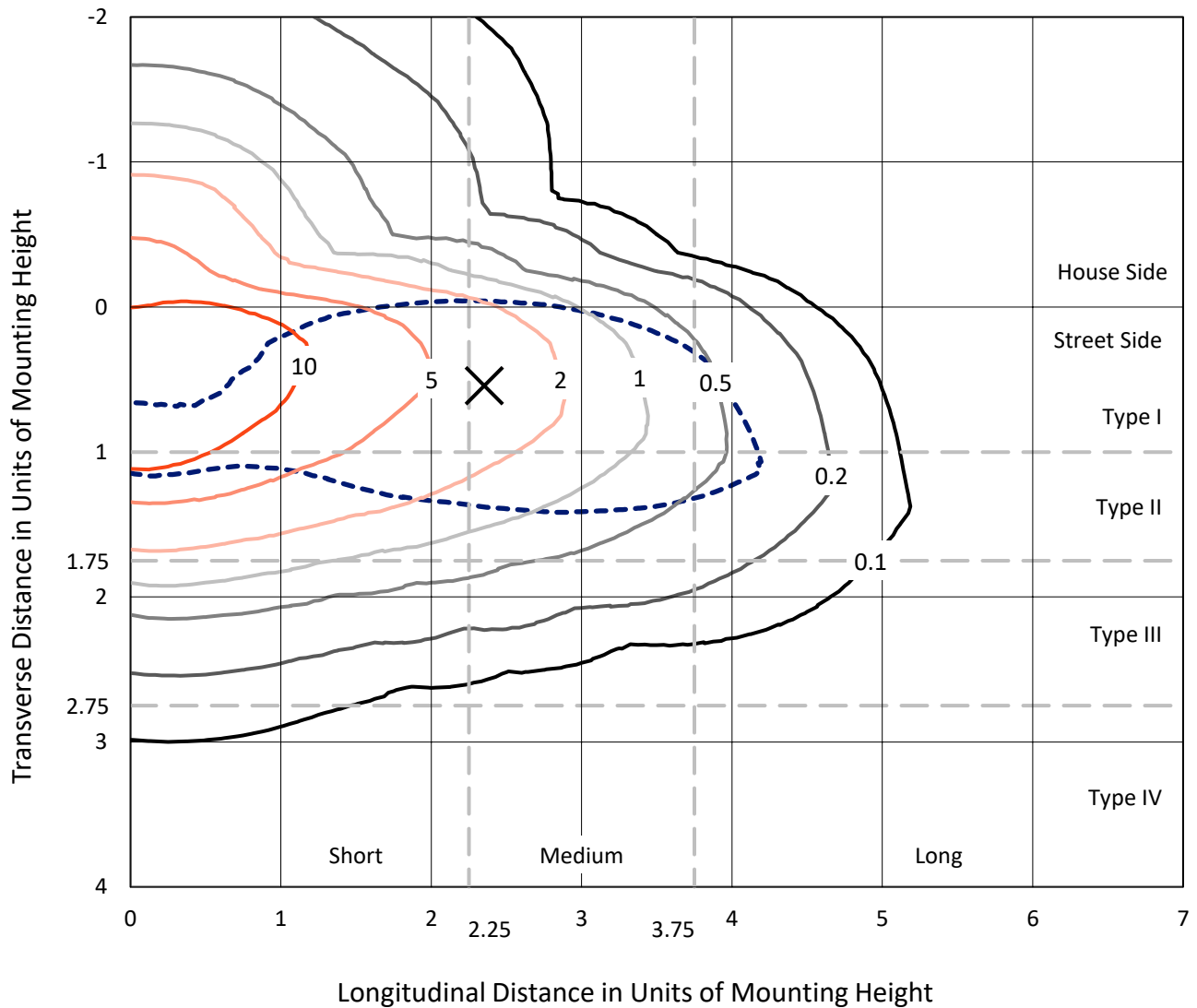
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

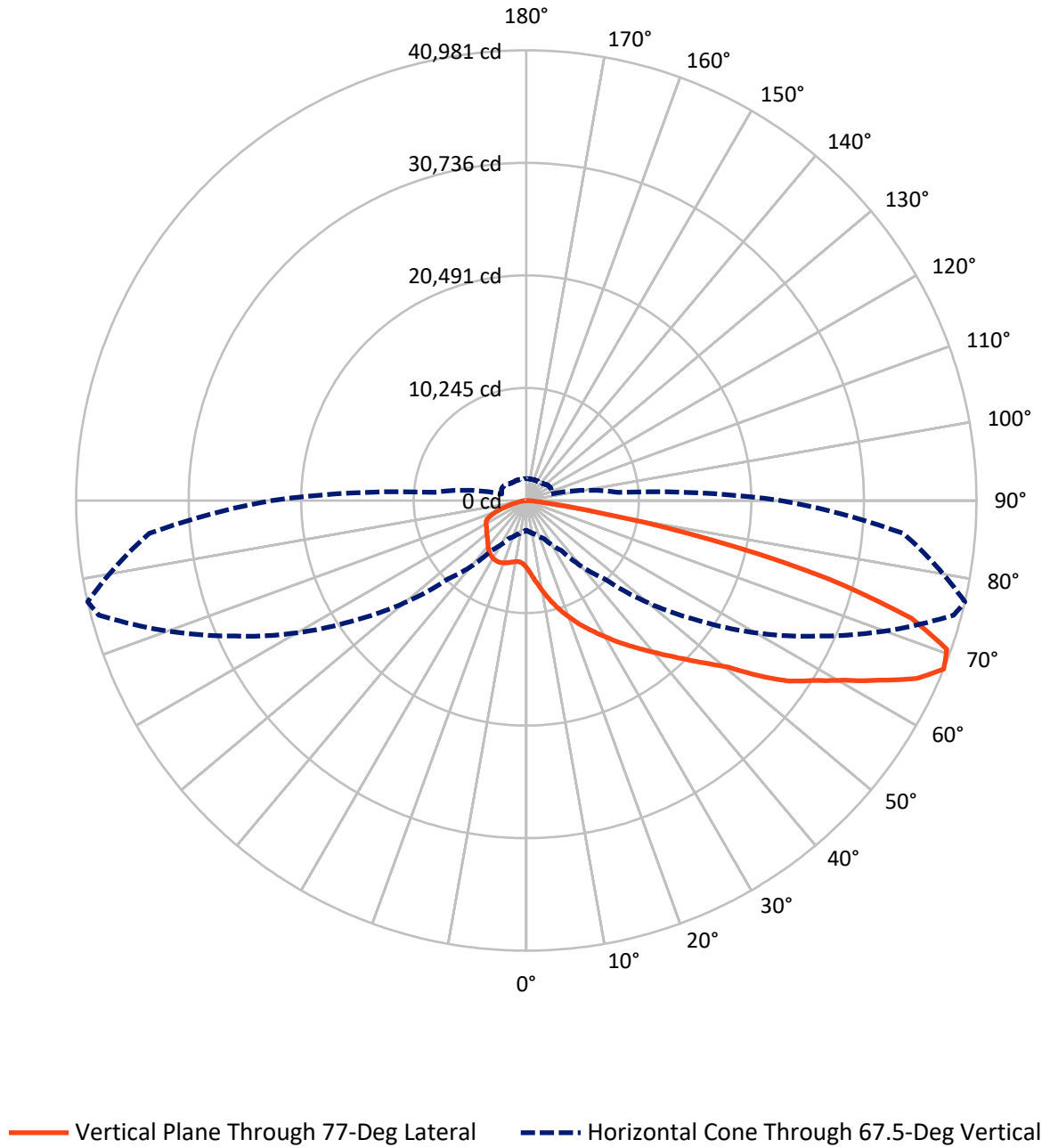
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 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	9881.9	0.0	9881.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	42359.1	0.0	42359.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	52241.0	0.0	52241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.0	1.3
10°-20°	2360.3	4.5
20°-30°	4456.5	8.5
30°-40°	7179.4	13.7
40°-50°	9820.1	18.8
50°-60°	11077.2	21.2
60°-70°	10339.2	19.8
70°-80°	5667.6	10.8
80°-90°	683.6	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°	52241.0	100.0
0°-180°	52241.0	100.0

Coefficient of Utilization



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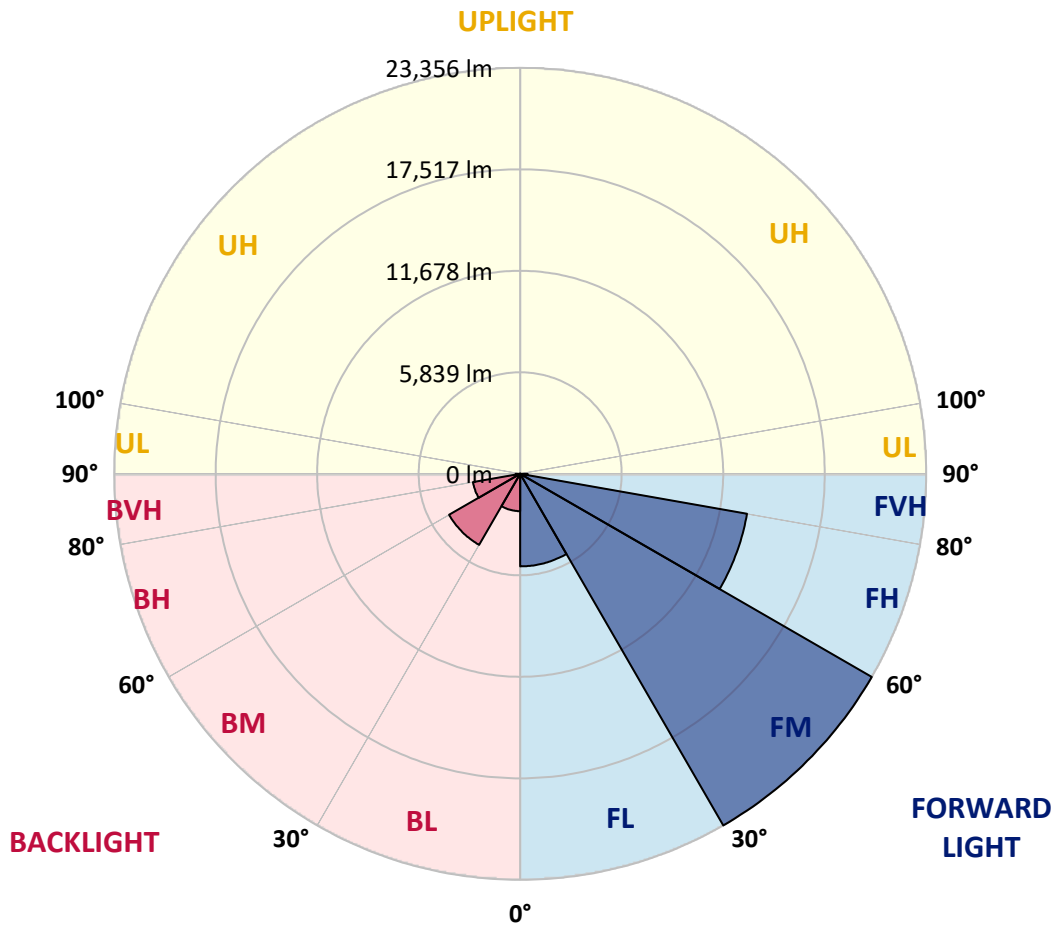
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5325.3	10.2			
FM (30°-60°)	23356.4	44.7			
FH (60°-80°)	13249.9	25.4			G5
FVH (80°-90°)	427.5	0.8			G3/500
BL (0°-30°)	2148.6	4.1	B3/2500		
BM (30°-60°)	4720.3	9.0	B3/5000		
BH (60°-80°)	2756.9	5.3	B4/5000		G4/5000
BVH (80°-90°)	256.1	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6129.5	6129.5	6129.5	6129.5	6129.5	6129.5	6129.5	6129.5	6129.5	6129.5
2.5°	7674.7	7728.6	7661.2	7661.2	7434.7	7316.0	7089.5	6916.9	6606.8	6552.9
5°	9071.5	9139.0	9044.6	9004.1	8737.2	8491.8	8111.5	7736.7	7183.9	7127.3
7.5°	10152.9	10239.2	10155.6	10112.4	9875.1	9600.1	9155.1	8632.0	7852.7	7742.1
10°	11034.7	11048.2	11021.2	11037.4	10851.3	10624.8	10169.1	9559.6	8586.1	8435.1
12.5°	11533.6	11595.6	11649.5	11746.6	11714.3	11574.0	11164.1	10436.0	9362.8	9168.6
15°	11768.2	11876.1	11997.4	12221.2	12401.9	12437.0	12124.2	11377.2	10152.9	9918.3
17.5°	11851.8	11954.3	12145.7	12469.3	12857.6	13119.2	12979.0	12291.3	10934.9	10665.3
20°	12275.2	12304.8	12420.8	12728.2	13148.9	13583.0	13688.2	13170.5	11708.9	11404.1
22.5°	13181.2	13121.9	13154.3	13294.5	13596.5	14017.2	14257.2	13947.1	12504.4	12153.8
25°	14677.9	14505.3	14332.7	14170.9	14324.6	14561.9	14834.3	14723.7	13337.6	12892.7
27.5°	16568.2	16357.9	15977.7	15446.4	15260.4	15344.0	15465.3	15443.7	14108.9	13658.5
30°	18428.9	18183.5	17730.5	16961.9	16471.2	16250.0	16158.3	16096.3	14947.5	14467.5
32.5°	19914.8	19720.6	19275.7	18415.4	17703.5	17326.0	17021.3	16800.1	15824.0	15344.0
35°	21214.6	21033.9	20524.2	19585.8	18811.9	18410.1	18010.9	17539.0	16735.4	16250.0
37.5°	22401.1	22220.4	21522.0	20545.8	19766.5	19488.7	19132.8	18331.8	17649.6	17191.2
40°	23150.8	23110.3	22457.7	21352.1	20543.1	20405.6	20286.9	19251.4	18663.5	18237.5
42.5°	23342.2	23431.2	22913.5	22004.7	21233.4	21122.9	21400.6	20292.3	19801.5	19394.3
45°	22881.1	23137.3	22797.5	22180.0	21724.2	21664.9	22387.6	21430.3	21060.9	20688.7
47.5°	21713.5	22147.6	22007.4	21921.1	21856.4	22112.6	23255.9	22638.4	22487.4	22163.8
50°	19356.6	20179.1	20424.4	20969.2	21594.8	22460.4	24046.1	23957.1	24153.9	23827.6
52.5°	15281.9	16414.5	17838.4	19202.9	20791.2	22344.5	24914.4	25850.1	26680.7	26502.7
55°	12614.9	13124.6	14219.5	16721.9	19232.5	21856.4	25305.4	27379.1	29188.6	29029.5
57.5°	10565.5	11021.2	11695.4	13785.3	16875.7	20748.0	25548.1	28312.2	30906.3	30890.2
60°	8367.7	8850.4	9540.8	11021.2	14122.4	18833.4	25494.2	29374.6	33098.7	33233.6
62.5°	5886.8	6418.0	7183.9	8564.6	11309.8	16352.5	24393.9	30143.2	35679.4	36046.2
65°	3869.7	4220.3	4797.3	5989.3	8427.0	13162.4	22293.2	30243.0	38440.8	39061.0
67.5°	2712.8	2847.7	3187.4	3834.6	5555.1	10093.6	18946.7	29210.1	40282.6	40981.0
70°	2116.9	2184.3	2356.9	2615.8	3489.5	6787.5	14518.8	26524.3	39888.9	40617.0
72.5°	1828.3	1893.1	1957.8	1990.1	2340.7	4190.6	9834.7	22177.3	36181.0	36674.5
75°	1658.4	1674.6	1728.6	1717.8	1785.2	2718.2	5676.5	16158.3	28546.8	28376.9
77.5°	1394.2	1415.7	1504.7	1491.2	1585.6	1858.0	2947.4	10428.0	18507.1	17353.0
80°	1181.1	1191.9	1289.0	1272.8	1378.0	1345.6	1504.7	5315.1	7850.0	6649.9
82.5°	409.9	507.0	984.3	1013.9	1051.7	814.4	868.3	2168.1	2397.3	1836.4
85°	199.6	213.0	501.6	711.9	709.2	409.9	423.4	773.9	755.1	593.3
87.5°	32.4	40.4	59.3	277.8	221.1	107.9	145.6	151.0	156.4	134.8
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°
6129.5	0°	6129.5	6129.5	6129.5	6129.5	6129.5	6129.5	6129.5	6129.5	6129.5	6129.5
6347.9	2.5°	6196.9	6062.1	5778.9	5517.4	5312.4	5115.6	5005.0	4910.6	4856.7	4845.9
6644.6	5°	6364.1	6086.3	5571.3	5137.1	4854.0	4643.6	4533.1	4463.0	4427.9	4406.3
7043.7	7.5°	6604.1	6196.9	5463.4	4969.9	4673.3	4522.3	4465.7	4454.9	4452.2	4454.9
7526.4	10°	6935.8	6377.6	5452.6	4929.5	4681.4	4597.8	4595.1	4597.8	4608.6	4611.3
8052.2	12.5°	7294.4	6563.7	5495.8	4964.5	4783.9	4738.0	4729.9	4727.2	4735.3	4740.7
8583.4	15°	7685.5	6809.0	5568.6	5040.0	4897.1	4848.6	4840.5	4824.3	4821.6	4818.9
9141.7	17.5°	8087.3	7051.7	5649.5	5120.9	4969.9	4902.5	4872.9	4835.1	4805.4	4797.3
9718.7	20°	8494.5	7291.7	5706.1	5161.4	4975.3	4880.9	4821.6	4756.9	4705.7	4676.0
10301.2	22.5°	8928.6	7542.5	5741.2	5150.6	4926.8	4797.3	4689.5	4614.0	4535.8	4484.5
10889.1	25°	9352.0	7761.0	5738.5	5094.0	4832.4	4667.9	4530.4	4433.3	4325.4	4271.5
11495.8	27.5°	9759.2	7957.8	5671.1	4994.2	4697.6	4514.2	4349.7	4233.7	4128.6	4077.3
12108.0	30°	10179.9	8122.3	5565.9	4848.6	4538.5	4336.2	4155.5	4055.8	3961.4	3912.8
12755.2	32.5°	10597.8	8273.3	5417.6	4667.9	4355.1	4160.9	3983.0	3891.3	3834.6	3834.6
13450.9	35°	11040.1	8378.5	5220.7	4457.6	4160.9	3974.9	3834.6	3780.7	3775.3	3743.0
14187.1	37.5°	11506.6	8445.9	4980.7	4241.8	3969.5	3794.2	3751.0	3686.3	3632.4	3562.3
14996.1	40°	11997.4	8513.3	4692.2	4018.0	3767.2	3670.1	3651.3	3565.0	3411.3	3238.7
15912.9	42.5°	12593.4	8559.2	4392.8	3794.2	3554.2	3521.8	3548.8	3400.5	3155.1	3025.6
17018.6	45°	13283.7	8634.7	4117.8	3573.1	3335.8	3335.8	3449.0	3254.9	3052.6	2971.7
18280.6	47.5°	14179.0	8810.0	3861.6	3330.4	3133.5	3187.4	3227.9	3079.6	2966.3	2866.5
19817.7	50°	15473.4	9230.6	3597.3	3085.0	2979.8	3087.7	3031.0	2944.7	2812.6	2731.7
22260.9	52.5°	17080.6	9478.7	3362.7	2863.8	2847.7	2955.5	2874.6	2793.7	2694.0	2586.1
24113.5	55°	18175.4	9524.6	3165.9	2702.0	2758.7	2747.9	2718.2	2645.4	2591.5	2448.6
25941.8	57.5°	19399.7	9616.3	3004.1	2605.0	2702.0	2583.4	2572.6	2510.6	2440.5	2343.4
28171.9	60°	20864.0	9759.2	2863.8	2567.2	2653.5	2475.5	2421.6	2397.3	2327.2	2278.7
30855.1	62.5°	22460.4	9888.6	2720.9	2572.6	2596.9	2370.4	2289.5	2281.4	2238.2	2222.0
33373.8	65°	23549.9	9535.4	2542.9	2567.2	2507.9	2262.5	2160.0	2157.3	2122.3	2116.9
34465.9	67.5°	23169.6	8416.3	2302.9	2491.7	2416.2	2154.6	2041.4	2030.6	1984.7	1987.4
33325.2	70°	21265.8	6819.8	1971.3	2305.6	2302.9	2057.5	1917.3	1882.3	1820.2	1831.0
28975.5	72.5°	17695.4	5053.5	1526.3	1995.5	2122.3	1968.6	1774.4	1717.8	1639.6	1650.4
21389.9	75°	12779.4	3435.5	1111.0	1518.2	1847.2	1863.4	1634.2	1537.1	1442.7	1458.9
11905.7	77.5°	6539.4	1947.0	817.1	1046.3	1450.8	1693.5	1507.4	1378.0	1356.4	1507.4
3432.8	80°	2133.1	976.2	566.3	733.5	951.9	1386.1	1321.4	1173.0	1167.7	1202.7
720.0	82.5°	636.4	412.6	364.0	482.7	525.8	1062.5	1140.7	887.2	763.2	803.6
240.0	85°	218.4	199.6	207.6	240.0	250.8	622.9	798.2	587.9	555.5	612.1
53.9	87.5°	51.2	70.1	59.3	53.9	53.9	151.0	310.1	245.4	339.8	226.5
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>
6129.5
4845.9
4403.6
4463.0
4614.0
4743.4
4816.2
4805.4
4686.8
4487.2
4271.5
4074.6
3910.1
3837.3
3734.9
3551.5
3214.4
3028.3
2985.2
2863.8
2723.6
2564.5
2451.3
2311.0
2292.2
2222.0
2114.2
1987.4
1841.8
1647.7
1464.3
1485.9
1032.8
830.6
604.1
218.4
0.0

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