

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: P953223

Luminaire Tested: **GALN-SB6D-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953223
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-SB6D-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56476 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

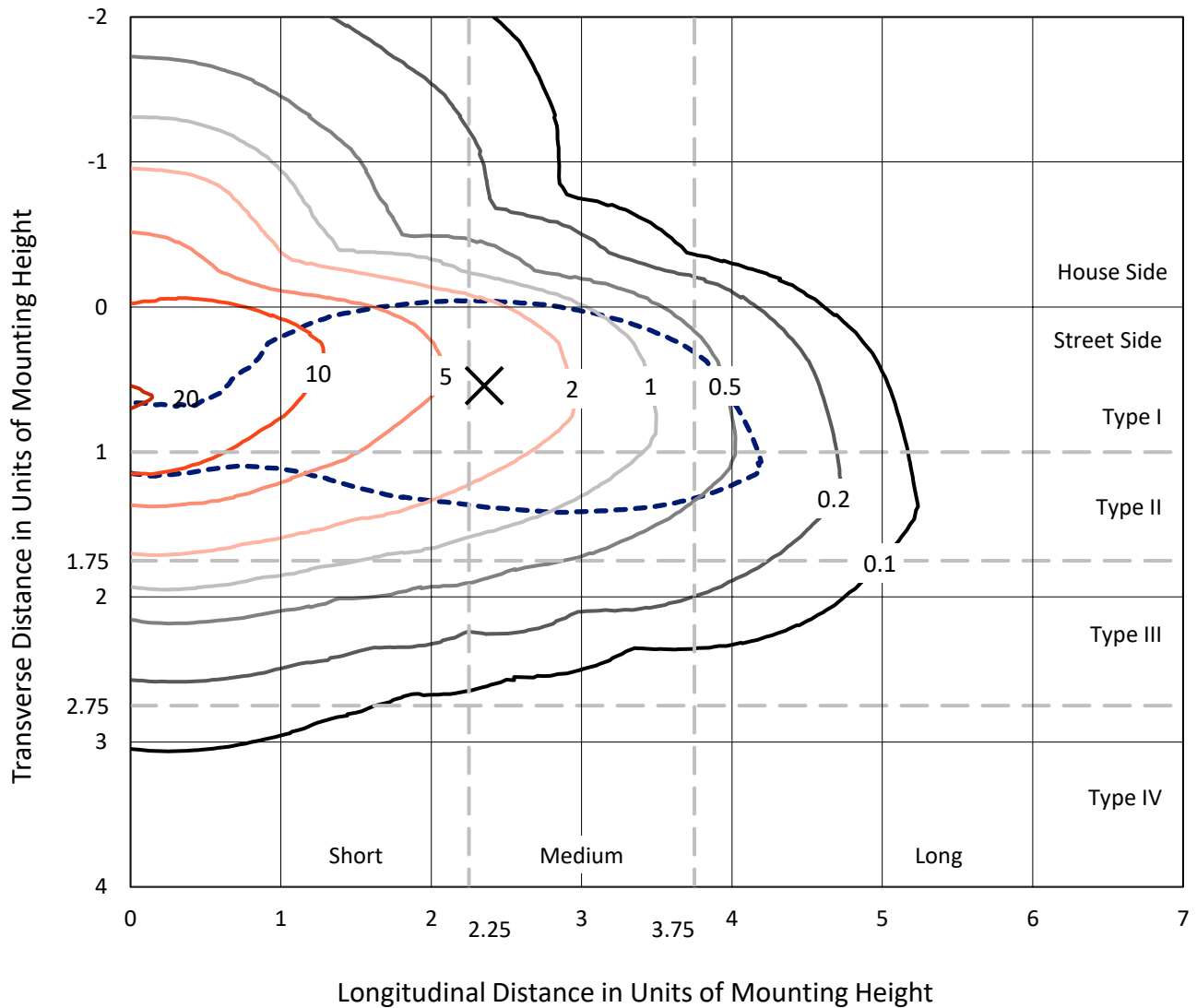
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

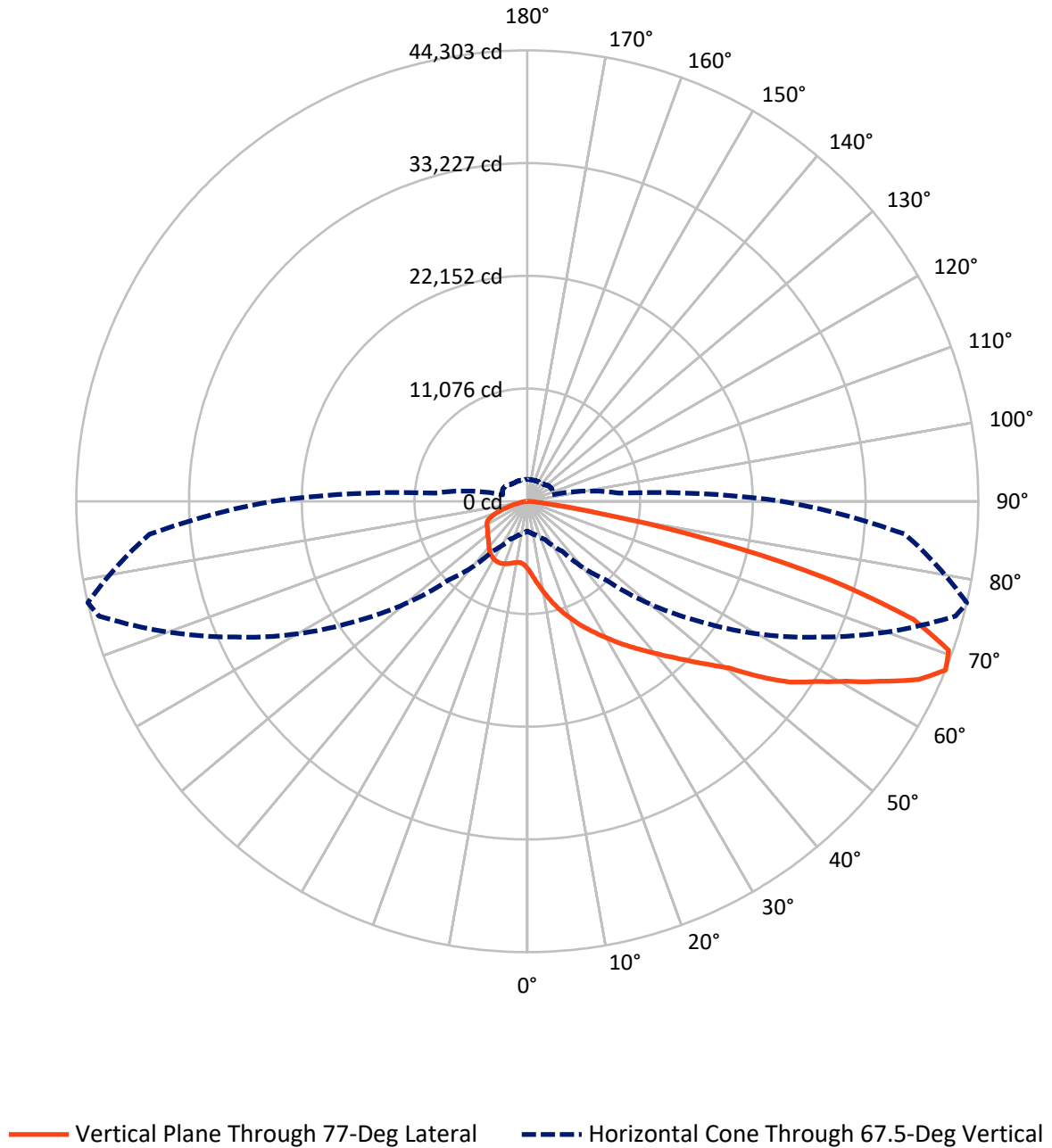
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 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	10683.0	0.0	10683.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	45793.0	0.0	45793.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	56476.0	0.0	56476.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.3	1.3
10°-20°	2551.7	4.5
20°-30°	4817.8	8.5
30°-40°	7761.4	13.7
40°-50°	10616.2	18.8
50°-60°	11975.2	21.2
60°-70°	11177.3	19.8
70°-80°	6127.1	10.8
80°-90°	739.1	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°	56476.0	100.0
0°-180°	56476.0	100.0



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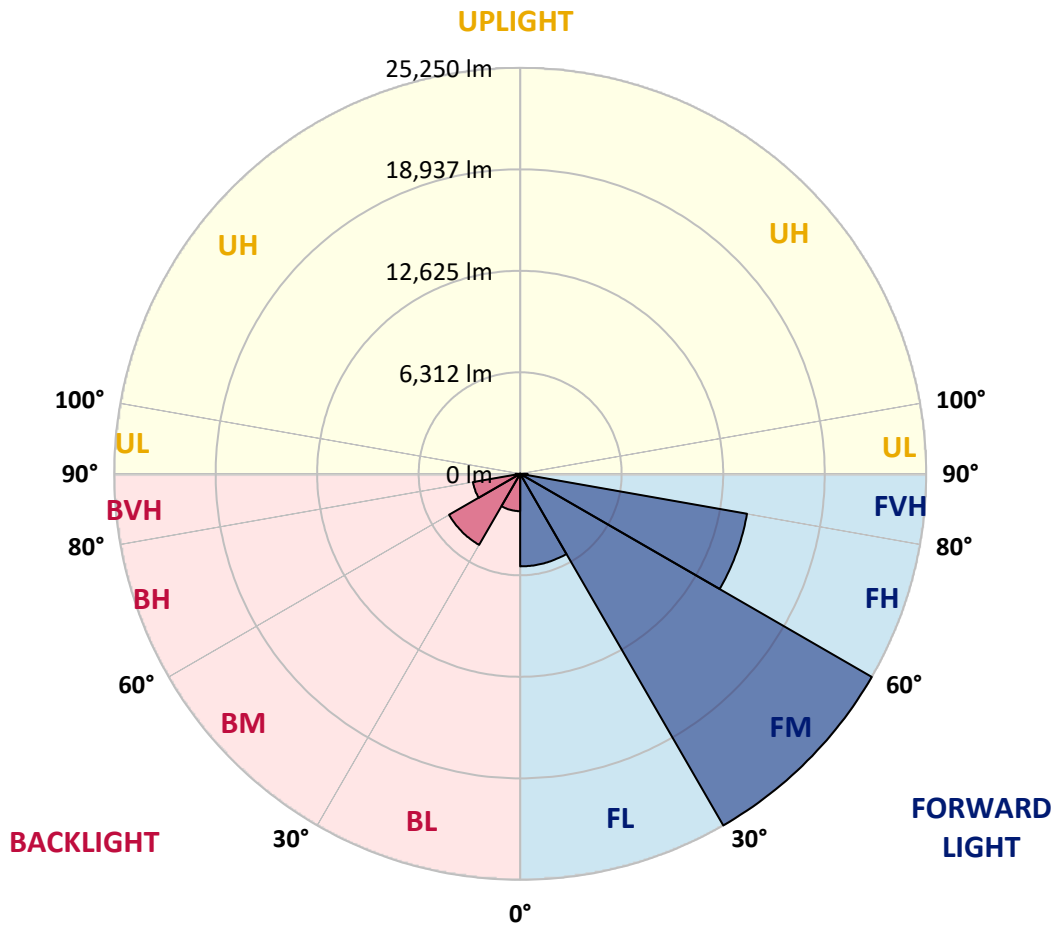
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5757.0	10.2			
FM (30°-60°)	25249.8	44.7			
FH (60°-80°)	14324.0	25.4			G5
FVH (80°-90°)	462.2	0.8			G3/500
BL (0°-30°)	2322.7	4.1	B3/2500		
BM (30°-60°)	5103.0	9.0	B4/8500		
BH (60°-80°)	2980.4	5.3	B4/5000		G4/5000
BVH (80°-90°)	276.9	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°	6626.4	6626.4	6626.4	6626.4	6626.4	6626.4	6626.4	6626.4	6626.4	6626.4
2.5°	8296.8	8355.1	8282.3	8282.3	8037.4	7909.1	7664.2	7477.6	7142.4	7084.1
5°	9806.9	9879.8	9777.8	9734.1	9445.4	9180.2	8769.1	8363.9	7766.3	7705.0
7.5°	10976.0	11069.2	10978.9	10932.2	10675.7	10378.3	9897.3	9331.8	8489.2	8369.7
10°	11929.2	11943.8	11914.7	11932.2	11731.0	11486.1	10993.5	10334.6	9282.2	9118.9
12.5°	12468.6	12535.6	12593.9	12698.9	12663.9	12512.3	12069.2	11282.1	10121.8	9911.9
15°	12722.2	12838.8	12970.0	13212.0	13407.3	13445.2	13107.0	12299.5	10976.0	10722.3
17.5°	12812.6	12923.4	13130.3	13480.2	13900.0	14182.7	14031.2	13287.8	11821.4	11529.9
20°	13270.3	13302.3	13427.7	13760.0	14214.8	14684.2	14797.9	14238.1	12658.1	12328.6
22.5°	14249.8	14185.7	14220.6	14372.2	14698.7	15153.5	15413.0	15077.7	13518.1	13139.1
25°	15867.8	15681.2	15494.6	15319.7	15485.9	15742.4	16036.9	15917.3	14418.9	13937.9
27.5°	17911.4	17684.0	17272.9	16698.6	16497.5	16587.8	16719.0	16695.7	15252.6	14765.8
30°	19922.9	19657.6	19167.8	18337.0	17806.4	17567.4	17468.2	17401.2	16159.3	15640.4
32.5°	21529.2	21319.3	20838.3	19908.3	19138.7	18730.6	18401.1	18162.1	17106.8	16587.8
35°	22934.4	22739.0	22188.1	21173.5	20336.9	19902.5	19471.0	18960.9	18092.1	17567.4
37.5°	24217.1	24021.8	23266.7	22211.4	21368.9	21068.6	20683.8	19817.9	19080.4	18584.8
40°	25027.5	24983.8	24278.3	23083.0	22208.5	22059.8	21931.5	20812.1	20176.5	19715.9
42.5°	25234.5	25330.7	24771.0	23788.5	22954.8	22835.2	23135.5	21937.3	21406.8	20966.6
45°	24736.0	25012.9	24645.6	23978.0	23485.3	23421.2	24202.5	23167.6	22768.2	22365.9
47.5°	23473.7	23943.0	23791.4	23698.2	23628.2	23905.1	25141.2	24473.6	24310.4	23960.5
50°	20925.7	21814.9	22080.2	22669.1	23345.4	24281.2	25995.4	25899.2	26112.0	25759.3
52.5°	16520.8	17745.2	19284.5	20759.6	22476.7	24155.9	26934.1	27945.7	28843.6	28651.2
55°	13637.6	14188.6	15372.2	18077.5	20791.6	23628.2	27356.8	29598.6	31554.8	31382.8
57.5°	11422.0	11914.7	12643.5	14902.8	18243.7	22430.0	27619.2	30607.3	33411.8	33394.3
60°	9046.1	9567.9	10314.2	11914.7	15267.2	20360.2	27560.9	31755.9	35781.9	35927.7
62.5°	6364.0	6938.3	7766.3	9258.9	12226.6	17678.1	26371.5	32586.8	38571.8	38968.3
65°	4183.4	4562.4	5186.3	6474.8	9110.2	14229.4	24100.5	32694.7	41557.1	42227.6
67.5°	2932.8	3078.5	3445.8	4145.5	6005.4	10911.8	20482.6	31578.1	43548.2	44303.2
70°	2288.5	2361.4	2547.9	2827.8	3772.3	7337.7	15695.8	28674.5	43122.5	43909.7
72.5°	1976.5	2046.5	2116.5	2151.5	2530.4	4530.3	10632.0	23975.1	39114.1	39647.6
75°	1792.9	1810.4	1868.7	1857.0	1929.9	2938.6	6136.6	17468.2	30861.0	30677.3
77.5°	1507.2	1530.5	1626.7	1612.1	1714.2	2008.6	3186.4	11273.3	20007.4	18759.7
80°	1276.9	1288.5	1393.5	1376.0	1489.7	1454.7	1626.7	5746.0	8486.3	7189.0
82.5°	443.1	548.1	1064.1	1096.1	1137.0	880.4	938.7	2343.9	2591.7	1985.3
85°	215.7	230.3	542.2	769.6	766.7	443.1	457.7	836.7	816.3	641.4
87.5°	35.0	43.7	64.1	300.3	239.1	116.6	157.4	163.3	169.1	145.8
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°
6626.4	0°	6626.4	6626.4	6626.4	6626.4	6626.4	6626.4	6626.4	6626.4	6626.4	6626.4
6862.5	2.5°	6699.3	6553.5	6247.4	5964.6	5743.1	5530.3	5410.7	5308.7	5250.4	5238.7
7183.2	5°	6880.0	6579.7	6022.9	5553.6	5247.5	5020.1	4900.6	4824.8	4786.9	4763.5
7614.7	7.5°	7139.5	6699.3	5906.3	5372.8	5052.1	4888.9	4827.7	4816.0	4813.1	4816.0
8136.5	10°	7498.1	6894.6	5894.7	5329.1	5060.9	4970.5	4967.6	4970.5	4982.2	4985.1
8705.0	12.5°	7885.8	7095.7	5941.3	5367.0	5171.7	5122.1	5113.4	5110.5	5119.2	5125.0
9279.3	15°	8308.5	7361.0	6020.0	5448.6	5294.1	5241.6	5232.9	5215.4	5212.5	5209.6
9882.7	17.5°	8742.9	7623.4	6107.5	5536.1	5372.8	5299.9	5267.9	5227.1	5195.0	5186.3
10506.6	20°	9183.1	7882.9	6168.7	5579.8	5378.7	5276.6	5212.5	5142.5	5087.1	5055.1
11136.3	22.5°	9652.4	8154.0	6206.6	5568.1	5326.2	5186.3	5069.6	4988.0	4903.5	4848.1
11771.8	25°	10110.1	8390.1	6203.7	5506.9	5224.1	5046.3	4897.6	4792.7	4676.1	4617.8
12427.8	27.5°	10550.3	8602.9	6130.8	5399.1	5078.4	4880.1	4702.3	4577.0	4463.3	4407.9
13089.5	30°	11005.1	8780.8	6017.1	5241.6	4906.4	4687.7	4492.4	4384.6	4282.5	4230.0
13789.2	32.5°	11457.0	8944.0	5856.8	5046.3	4708.1	4498.2	4305.8	4206.7	4145.5	4145.5
14541.3	35°	11935.1	9057.7	5643.9	4818.9	4498.2	4297.1	4145.5	4087.2	4081.4	4046.4
15337.2	37.5°	12439.4	9130.6	5384.5	4585.7	4291.3	4101.8	4055.1	3985.2	3926.9	3851.1
16211.8	40°	12970.0	9203.5	5072.6	4343.7	4072.6	3967.7	3947.3	3854.0	3687.8	3501.2
17203.0	42.5°	13614.3	9253.0	4749.0	4101.8	3842.3	3807.3	3836.5	3676.1	3410.9	3270.9
18398.2	45°	14360.6	9334.7	4451.6	3862.7	3606.2	3606.2	3728.6	3518.7	3300.1	3212.6
19762.6	47.5°	15328.4	9524.2	4174.7	3600.3	3387.5	3445.8	3489.6	3329.2	3206.8	3098.9
21424.3	50°	16727.8	9978.9	3889.0	3335.1	3221.4	3338.0	3276.8	3183.5	3040.6	2953.2
24065.5	52.5°	18465.3	10247.1	3635.3	3096.0	3078.5	3195.1	3107.7	3020.2	2912.3	2795.7
26068.3	55°	19648.9	10296.7	3422.5	2921.1	2982.3	2970.7	2938.6	2859.9	2801.6	2647.1
28044.8	57.5°	20972.4	10395.8	3247.6	2816.1	2921.1	2792.8	2781.2	2714.1	2638.3	2533.4
30455.7	60°	22555.4	10550.3	3096.0	2775.3	2868.6	2676.2	2617.9	2591.7	2515.9	2463.4
33356.4	62.5°	24281.2	10690.3	2941.5	2781.2	2807.4	2562.5	2475.1	2466.3	2419.7	2402.2
36079.3	65°	25459.0	10308.4	2749.1	2775.3	2711.2	2445.9	2335.1	2332.2	2294.3	2288.5
37260.0	67.5°	25047.9	9098.5	2489.6	2693.7	2612.1	2329.3	2206.9	2195.2	2145.6	2148.5
36026.8	70°	22989.8	7372.7	2131.1	2492.5	2489.6	2224.3	2072.8	2034.9	1967.8	1979.5
31324.5	72.5°	19129.9	5463.2	1650.0	2157.3	2294.3	2128.1	1918.2	1857.0	1772.5	1784.1
23123.9	75°	13815.4	3714.0	1201.1	1641.3	1997.0	2014.4	1766.6	1661.7	1559.7	1577.2
12870.9	77.5°	7069.5	2104.8	883.3	1131.1	1568.4	1830.8	1629.6	1489.7	1466.4	1629.6
3711.1	80°	2306.0	1055.3	612.2	793.0	1029.1	1498.4	1428.5	1268.1	1262.3	1300.2
778.4	82.5°	688.0	446.0	393.6	521.8	568.5	1148.6	1233.2	959.1	825.0	868.7
259.5	85°	236.1	215.7	224.5	259.5	271.1	673.4	862.9	635.5	600.5	661.8
58.3	87.5°	55.4	75.8	64.1	58.3	58.3	163.3	335.3	265.3	367.3	244.9
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>
6626.4
5238.7
4760.6
4824.8
4988.0
5127.9
5206.7
5195.0
5066.7
4851.0
4617.8
4405.0
4227.1
4148.4
4037.6
3839.4
3475.0
3273.8
3227.2
3096.0
2944.4
2772.4
2650.0
2498.4
2478.0
2402.2
2285.6
2148.5
1991.1
1781.2
1583.0
1606.3
1116.5
897.9
653.0
236.1
0.0

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