

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: P956795

Luminaire Tested: **GALN-SB9B-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956795
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-SB9B-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46704 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

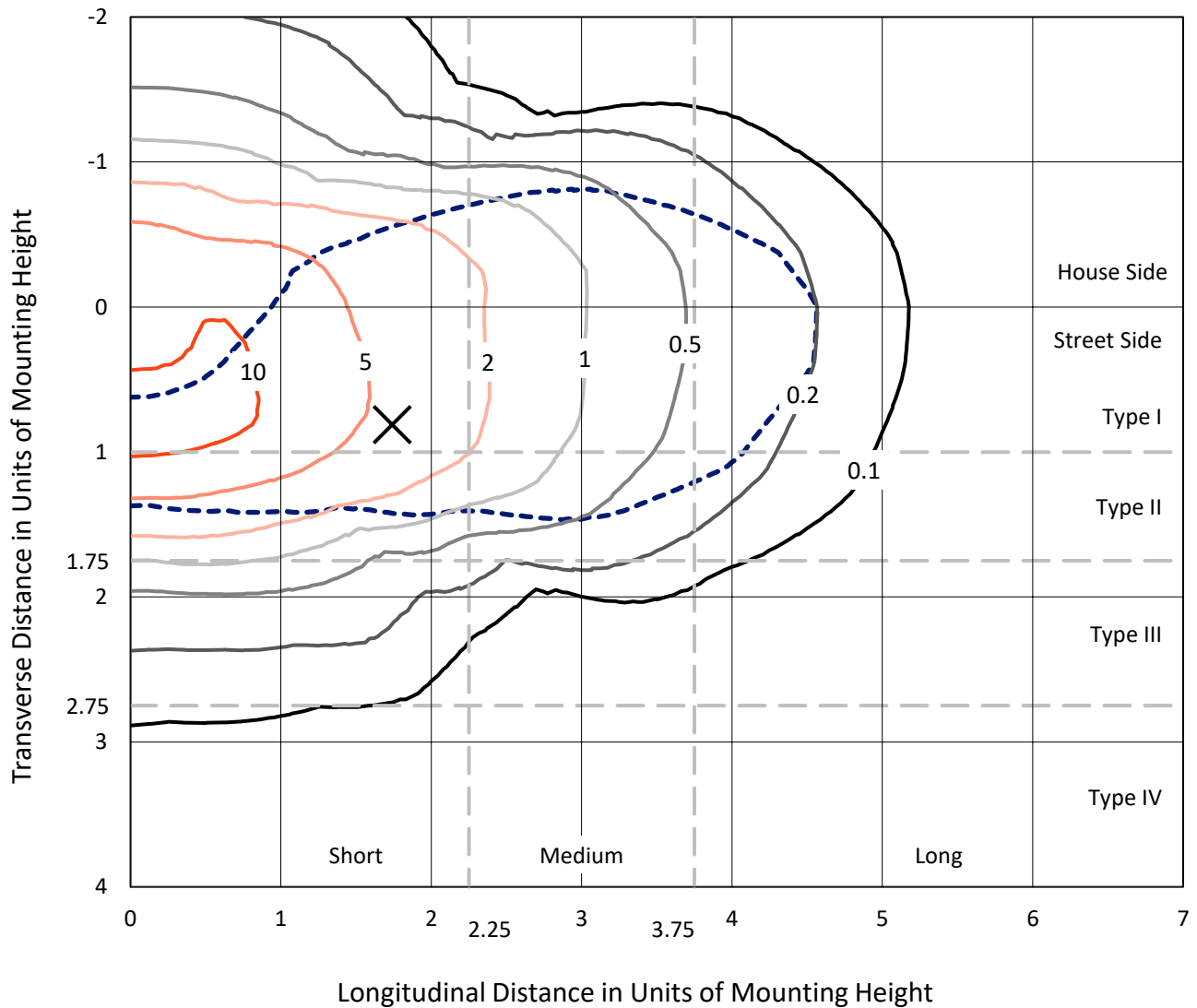
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

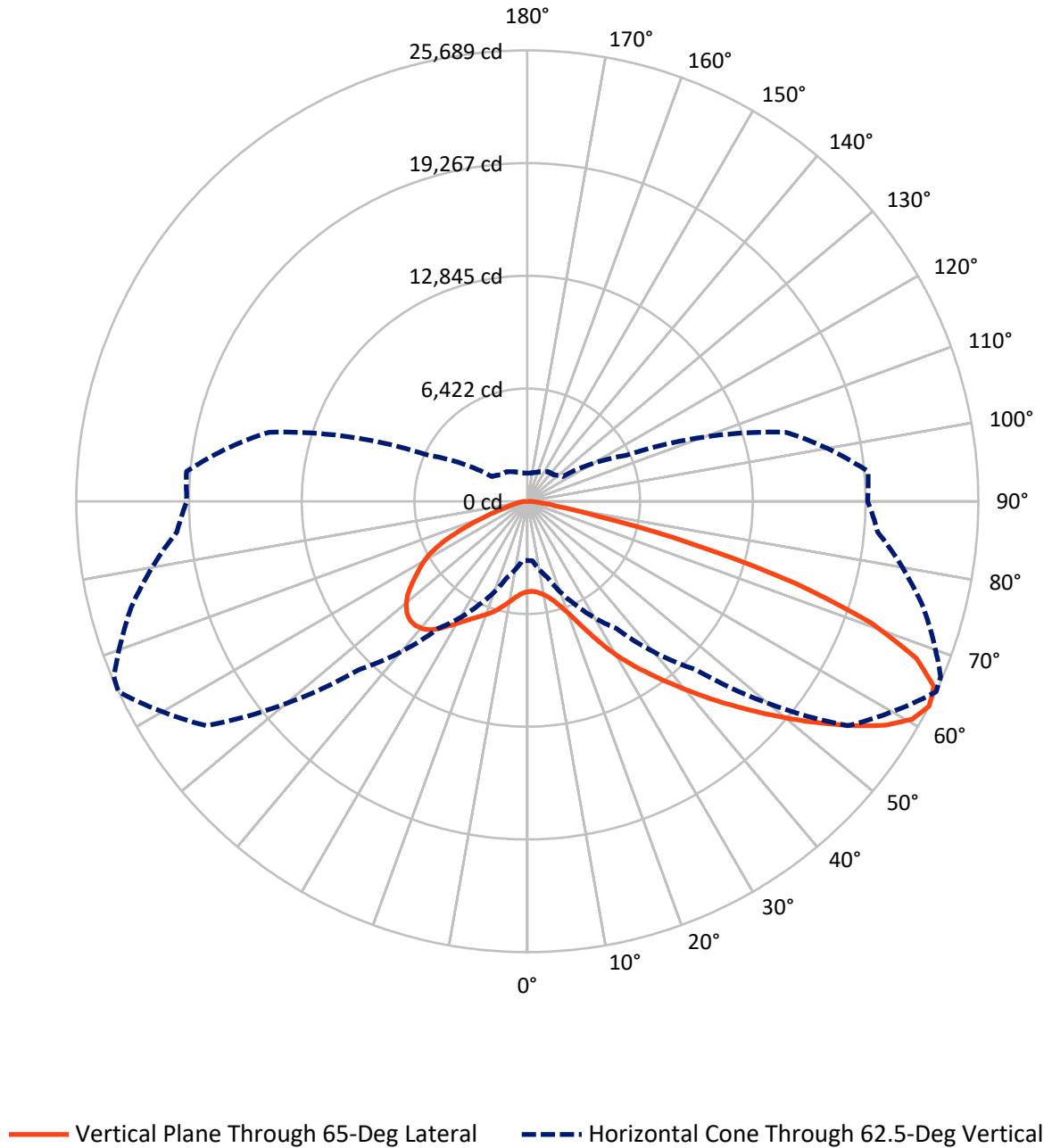
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	14737.8	0.0	14737.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	31966.2	0.0	31966.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	46704.0	0.0	46704.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.1	1.1
10°-20°	1740.0	3.7
20°-30°	3528.0	7.6
30°-40°	6105.2	13.1
40°-50°	9239.0	19.8
50°-60°	10832.2	23.2
60°-70°	9081.5	19.4
70°-80°	5013.7	10.7
80°-90°	651.3	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°	46704.0	100.0
0°-180°	46704.0	100.0



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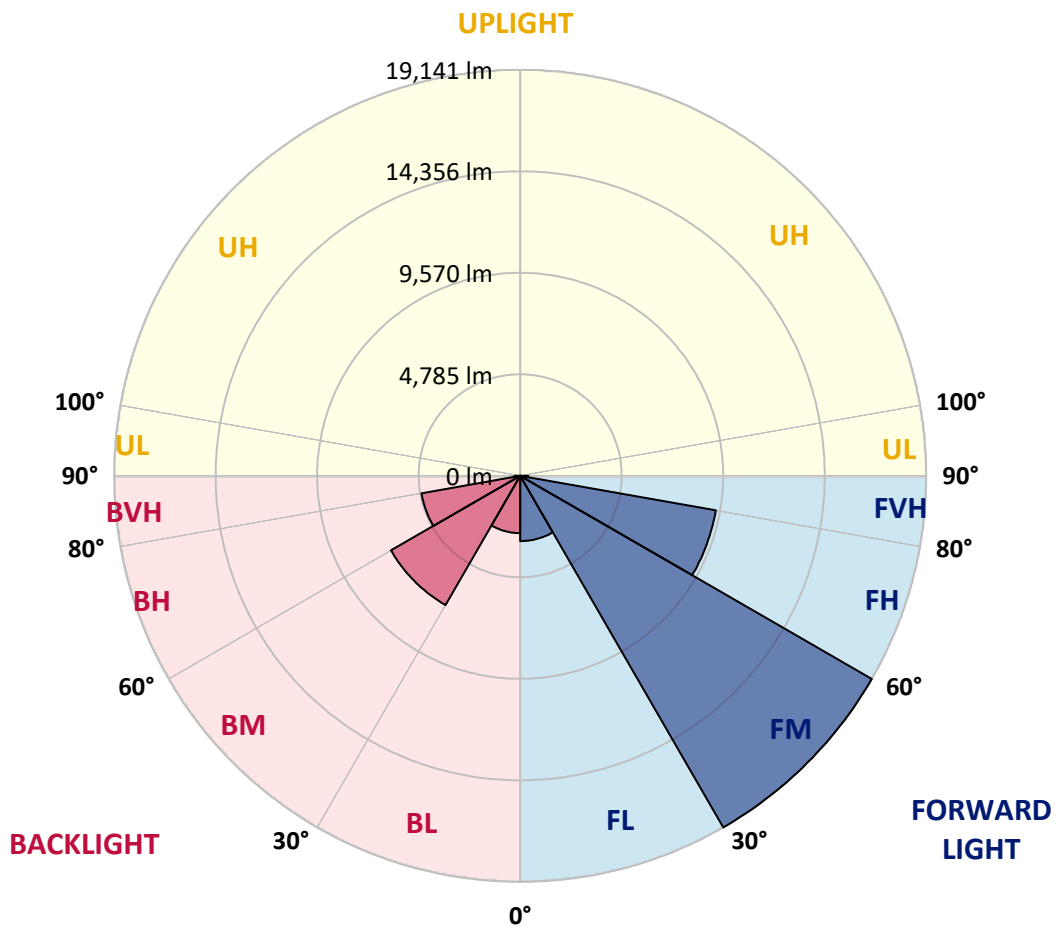
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3078.4	6.6			
FM (30°-60°)	19140.8	41.0			
FH (60°-80°)	9367.5	20.1			G4/12000
FVH (80°-90°)	379.6	0.8			G3/500
BL (0°-30°)	2702.7	5.8	B4/5000		
BM (30°-60°)	7035.6	15.1	B4/8500		
BH (60°-80°)	4727.7	10.1	B4/5000		G4/5000
BVH (80°-90°)	271.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	5146.6	5146.6	5146.6	5146.6	5146.6	5146.6	5146.6	5146.6	5146.6	5146.6
2.5°	5112.7	5098.1	5110.2	5110.2	5115.1	5112.7	5129.6	5134.5	5141.7	5156.3
5°	5061.8	5059.3	5081.2	5100.5	5119.9	5136.9	5158.7	5190.2	5195.0	5212.0
7.5°	5044.8	5030.3	5064.2	5088.4	5134.5	5175.7	5233.8	5287.1	5308.9	5316.2
10°	5175.7	5151.4	5182.9	5197.5	5236.2	5277.4	5345.3	5430.1	5454.3	5483.4
12.5°	5398.6	5371.9	5418.0	5439.8	5476.1	5512.5	5558.5	5640.9	5653.0	5706.3
15°	5703.9	5672.4	5701.5	5728.1	5788.7	5822.6	5868.6	5948.6	5948.6	5989.8
17.5°	6118.2	6077.0	6098.8	6108.5	6147.3	6198.2	6275.7	6346.0	6382.3	6367.8
20°	6736.1	6685.2	6685.2	6636.8	6622.2	6663.4	6765.2	6862.1	6900.9	6825.8
22.5°	7664.1	7591.4	7550.3	7385.5	7320.1	7324.9	7426.7	7545.4	7576.9	7443.6
25°	8844.2	8730.3	8674.6	8432.2	8284.4	8156.0	8236.0	8388.6	8432.2	8267.5
27.5°	10024.2	10031.5	9978.2	9687.4	9442.7	9207.6	9166.4	9326.4	9372.4	9185.8
30°	11679.1	11507.1	11405.3	11056.4	10707.5	10378.0	10208.3	10273.8	10285.9	10063.0
32.5°	13106.3	13062.7	12844.6	12539.3	12091.1	11575.0	11291.5	11187.3	11167.9	10850.5
35°	14732.2	14708.0	14477.8	14114.3	13629.7	12912.5	12401.2	12103.2	12079.0	11633.1
37.5°	16384.7	16384.7	16159.4	15762.0	15260.4	14363.9	13586.1	13113.6	13036.1	12454.5
40°	17702.9	17622.9	17664.1	17496.9	16922.6	15970.4	14901.8	14216.1	14111.9	13414.1
42.5°	18451.6	18424.9	18672.1	18858.7	18623.6	17862.8	16350.8	15410.7	15265.3	14470.5
45°	18618.8	18589.7	19030.7	19714.0	20043.5	19731.0	17925.8	16668.2	16491.3	15575.4
47.5°	18233.5	18175.4	18822.3	19900.6	20957.0	21507.1	19631.6	18032.4	17775.6	16651.3
50°	17075.3	17019.6	17998.5	19430.5	21264.8	22713.8	21482.8	19479.0	19086.4	17804.6
52.5°	14557.7	14584.4	16118.2	18085.7	20860.1	23464.9	23077.2	21003.1	20530.6	18984.7
55°	11339.9	11398.1	13283.2	15449.4	19241.5	23351.0	24165.2	22573.2	22103.1	20094.4
57.5°	8119.7	8376.5	10142.9	12287.3	16132.7	21545.8	24402.6	24065.8	23610.3	21306.0
60°	5262.9	5308.9	7126.2	9287.6	12284.9	18337.7	23920.4	25197.4	24841.2	22541.7
62.5°	3372.9	3404.4	4511.7	6496.2	8841.7	13566.7	22297.0	25689.3	25580.2	23358.3
65°	2478.8	2454.6	3031.2	4293.7	5955.9	8366.8	19144.6	25451.8	25667.5	23869.6
67.5°	2069.3	2035.4	2318.9	2973.1	4388.2	4751.6	14165.2	23908.3	24698.2	23811.4
70°	1885.1	1856.1	2028.1	2207.4	3423.8	3181.5	7140.8	20785.0	22001.4	23149.9
72.5°	1596.8	1545.9	1780.9	1960.3	2662.9	2440.0	2951.3	15965.5	17448.5	21029.7
75°	1238.2	1204.3	1405.4	1725.2	2001.4	1904.5	1865.8	9694.7	11313.3	16263.6
77.5°	981.3	935.3	1119.5	1344.8	1800.3	1436.9	1359.3	4174.9	5779.0	10382.8
80°	739.0	697.8	850.5	1063.7	1383.6	1083.1	879.6	1703.4	2178.3	5260.5
82.5°	525.8	489.5	593.6	780.2	930.5	971.6	540.3	954.7	1073.4	2028.1
85°	336.8	315.0	397.4	489.5	591.2	625.1	329.5	499.2	547.6	836.0
87.5°	184.2	150.2	213.2	227.8	273.8	249.6	157.5	181.7	196.3	302.9
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°
5146.6	0°	5146.6	5146.6	5146.6	5146.6	5146.6	5146.6	5146.6	5146.6	5146.6	5146.6
5156.3	2.5°	5166.0	5173.2	5197.5	5204.7	5221.7	5243.5	5258.0	5272.6	5272.6	5287.1
5233.8	5°	5236.2	5253.2	5304.1	5330.7	5374.3	5418.0	5444.6	5476.1	5495.5	5505.2
5357.4	7.5°	5371.9	5398.6	5471.3	5517.3	5592.4	5653.0	5694.2	5737.8	5747.5	5774.2
5529.4	10°	5556.1	5587.6	5670.0	5757.2	5846.8	5922.0	5960.7	5992.2	6004.3	6009.2
5749.9	12.5°	5766.9	5812.9	5919.5	6026.1	6120.6	6186.1	6195.8	6188.5	6154.6	6125.5
6021.3	15°	6026.1	6067.3	6186.1	6302.4	6394.5	6406.6	6346.0	6307.2	6266.0	6258.8
6324.2	17.5°	6336.3	6358.1	6467.1	6581.0	6588.3	6547.1	6457.5	6421.1	6382.3	6355.7
6719.1	20°	6697.3	6690.1	6767.6	6816.1	6765.2	6639.2	6503.5	6442.9	6404.1	6372.6
7203.8	22.5°	7128.6	7072.9	7063.2	7051.1	6915.4	6651.3	6467.1	6389.6	6329.0	6285.4
7879.8	25°	7756.2	7543.0	7395.2	7312.8	7007.5	6585.9	6350.8	6178.8	6064.9	5989.8
8706.1	27.5°	8541.3	8182.7	7809.5	7608.4	7007.5	6452.6	6069.8	5791.1	5604.5	5527.0
9505.7	30°	9290.0	8914.4	8364.4	7964.6	6990.5	6234.5	5616.7	5229.0	5010.9	4933.3
10189.0	32.5°	9929.7	9520.2	8953.2	8354.7	6949.3	5880.8	5054.5	4625.6	4414.8	4322.7
10865.0	35°	10523.3	10087.2	9544.4	8783.6	6840.3	5362.2	4436.6	4109.5	3874.5	3726.7
11553.1	37.5°	11131.5	10613.0	10104.2	9171.3	6644.0	4756.5	3961.7	3683.1	3406.8	3208.1
12284.9	40°	11793.0	11172.7	10702.7	9401.5	6321.8	4179.8	3593.4	3339.0	3045.8	2835.0
13128.1	42.5°	12566.0	11843.9	11369.0	9520.2	5880.8	3770.3	3353.5	3103.9	2827.7	2655.7
14031.9	45°	13372.9	12582.9	11977.2	9517.8	5388.9	3578.9	3276.0	3028.8	2723.5	2544.2
14960.0	47.5°	14218.5	13355.9	12503.0	9362.7	4962.4	3605.5	3232.4	2866.5	2529.7	2355.2
15897.7	50°	15066.6	14201.6	13011.8	9071.9	4780.7	3547.4	3070.0	2638.7	2241.3	2083.8
16777.3	52.5°	15907.4	15100.5	13450.4	8657.6	4596.5	3331.7	2861.6	2343.1	2122.6	2013.6
17685.9	55°	16753.0	15989.8	13927.7	8054.2	4136.2	3079.7	2512.7	2231.6	2028.1	1928.8
18575.2	57.5°	17601.1	17017.1	14380.9	7450.9	3557.1	2769.6	2321.3	2095.9	1933.6	1848.8
19319.1	60°	18483.1	18192.3	14848.5	6896.0	2985.2	2372.2	2180.8	1986.9	1822.1	1727.6
20033.9	62.5°	19391.7	19486.2	15214.4	6181.2	2459.4	2129.9	2054.8	1856.1	1696.1	1606.5
20625.1	65°	20307.7	20734.1	15454.3	5190.2	1994.2	1899.7	1919.1	1713.1	1550.8	1473.2
21058.8	67.5°	20998.2	21633.1	15386.4	3927.8	1635.6	1681.6	1749.4	1562.9	1410.2	1349.6
20988.5	70°	21075.8	21526.5	14717.7	2689.6	1369.0	1468.4	1560.5	1415.1	1257.6	1214.0
19999.9	72.5°	20043.5	20072.6	12854.3	1756.7	1158.2	1289.1	1361.8	1264.8	1112.2	1068.6
17496.9	75°	17337.0	16600.4	9437.8	1158.2	969.2	1107.3	1175.2	1107.3	959.5	969.2
13091.8	77.5°	13135.4	11756.7	5730.5	823.8	809.3	930.5	1022.5	974.1	848.1	952.3
6583.5	80°	6767.6	6360.5	2556.3	615.5	639.7	743.9	840.8	777.8	671.2	639.7
1470.8	82.5°	1550.8	1802.8	1008.0	441.0	462.8	535.5	642.1	584.0	482.2	407.1
613.0	85°	542.8	593.6	445.8	276.2	271.4	334.4	436.2	390.1	327.1	261.7
259.3	87.5°	172.0	225.3	167.2	111.5	116.3	150.2	201.1	184.2	152.7	99.3
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°
5146.6
5287.1
5510.0
5764.5
5997.1
6125.5
6258.8
6358.1
6375.1
6300.0
6018.9
5565.8
4979.4
4368.8
3775.1
3261.4
2876.2
2689.6
2573.3
2379.4
2093.5
2013.6
1919.1
1834.3
1720.4
1604.1
1470.8
1352.1
1216.4
1066.1
935.3
838.4
584.0
402.2
276.2
104.2
0.0

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