

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: P942727

Luminaire Tested: **GALN-SB6D-840-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942727
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-SB6D-840-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59065 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

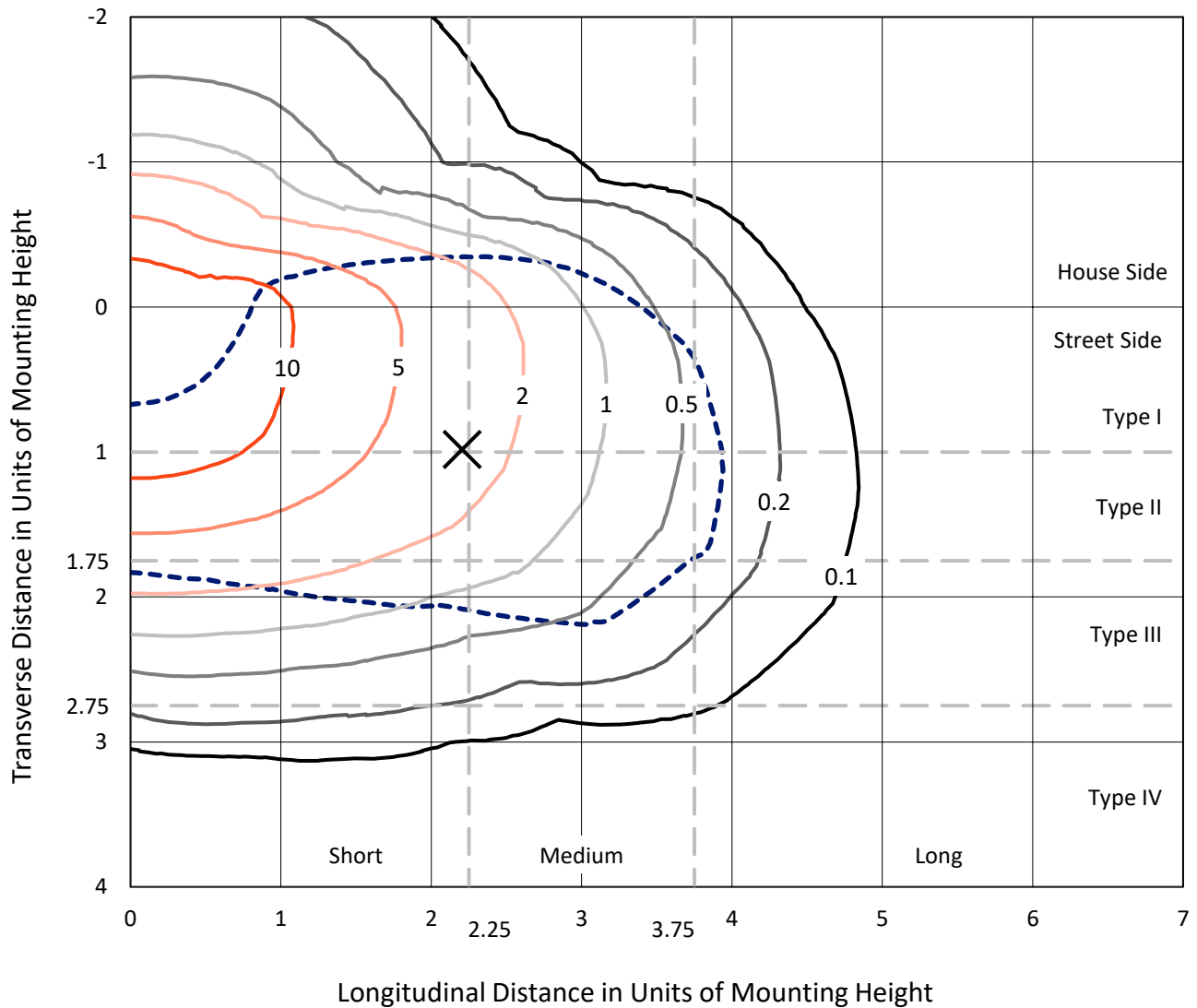
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

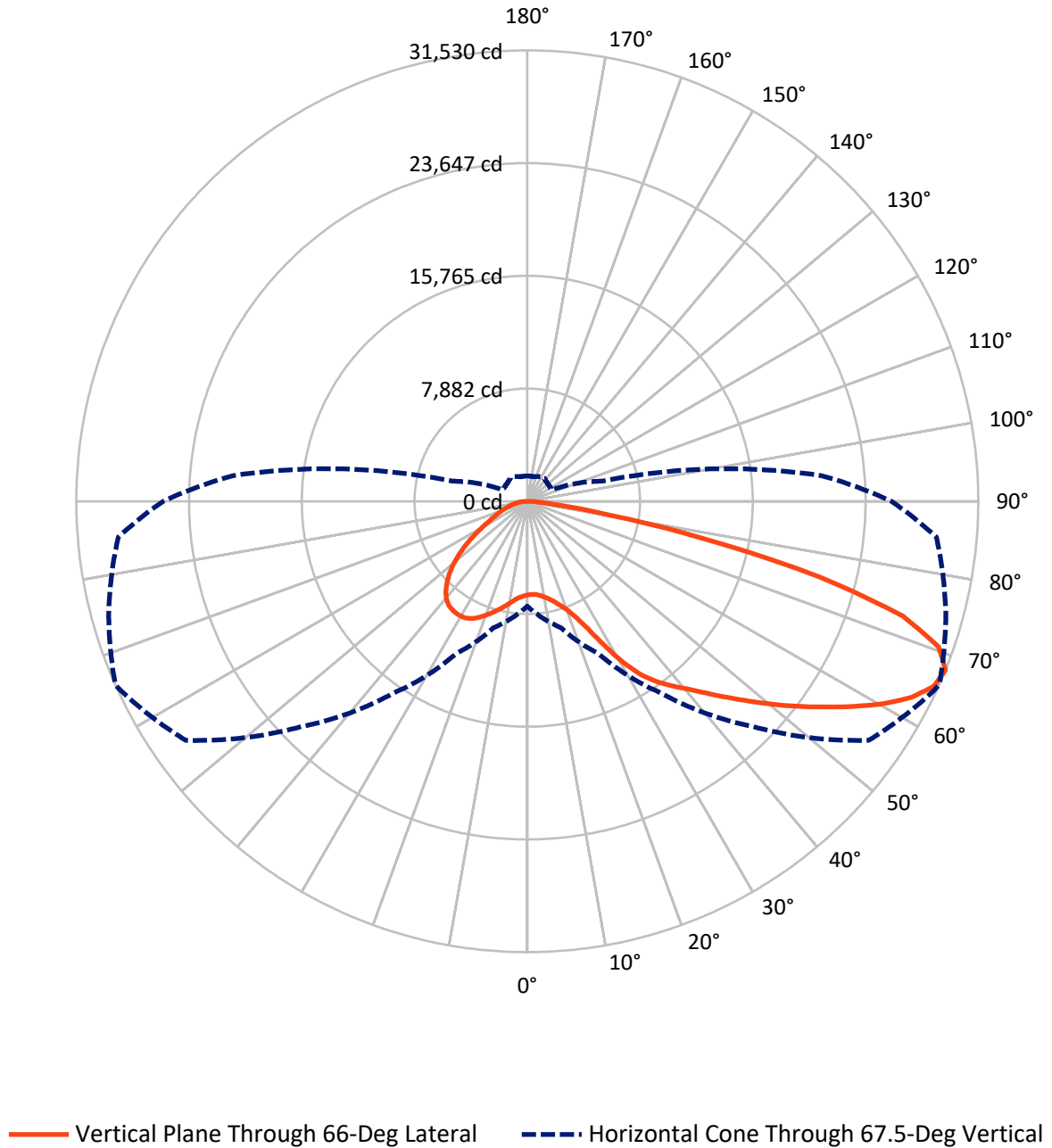
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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	14686.4	0.0	14686.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	44378.7	0.0	44378.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	59065.0	0.0	59065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.5	1.1
10°-20°	2145.9	3.6
20°-30°	4136.1	7.0
30°-40°	7252.2	12.3
40°-50°	10781.6	18.3
50°-60°	13666.7	23.1
60°-70°	13372.5	22.6
70°-80°	6378.8	10.8
80°-90°	681.7	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°	59065.0	100.0
0°-180°	59065.0	100.0

Coefficient of Utilization



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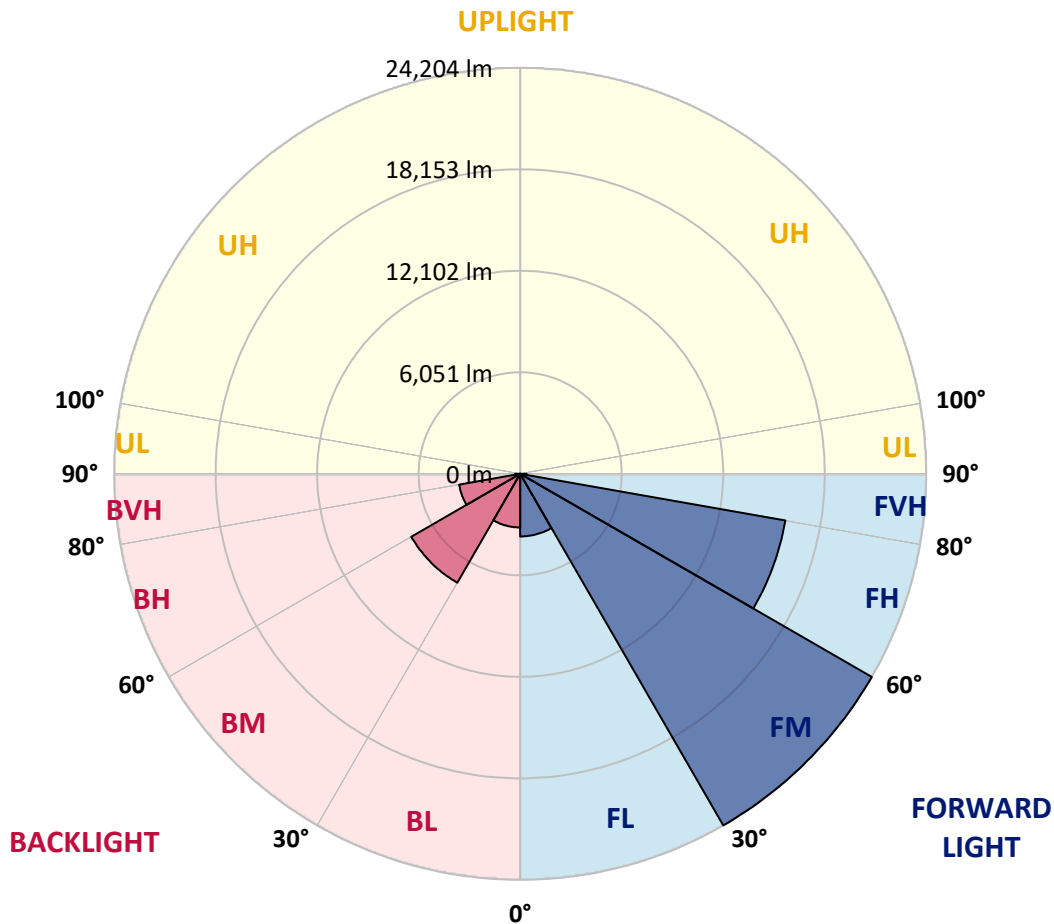
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3732.3	6.3			
FM (30°-60°)	24204.3	41.0			
FH (60°-80°)	16055.5	27.2			G5
FVH (80°-90°)	386.5	0.7			G3/500
BL (0°-30°)	3199.2	5.4	B4/5000		
BM (30°-60°)	7496.1	12.7	B4/8500		
BH (60°-80°)	3695.8	6.3	B4/5000		G4/5000
BVH (80°-90°)	295.2	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°	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1
2.5°	6482.8	6520.1	6510.7	6495.2	6492.1	6498.3	6507.6	6517.0	6513.8	6529.4
5°	6464.2	6501.4	6498.3	6498.3	6510.7	6535.6	6551.1	6566.6	6551.1	6569.7
7.5°	6476.6	6504.5	6517.0	6529.4	6560.4	6606.9	6644.2	6678.3	6659.7	6681.4
10°	6634.9	6656.6	6669.0	6669.0	6690.7	6743.5	6780.7	6842.8	6827.3	6861.4
12.5°	6923.5	6945.2	6945.2	6932.8	6948.3	6982.4	6994.9	7063.1	7035.2	7091.1
15°	7277.3	7320.7	7286.6	7264.9	7271.1	7305.2	7302.1	7354.8	7326.9	7373.5
17.5°	7668.3	7724.1	7668.3	7665.2	7652.8	7690.0	7693.1	7739.7	7690.0	7724.1
20°	8130.7	8208.3	8161.7	8177.2	8149.3	8164.8	8180.3	8248.6	8171.0	8195.8
22.5°	8782.4	8875.5	8825.8	8884.8	8866.2	8853.7	8850.6	8971.7	8850.6	8860.0
25°	9732.0	9843.7	9756.8	9837.5	9837.5	9877.8	9924.4	10079.6	9877.8	9818.9
27.5°	11134.7	11246.4	11075.7	11125.4	11109.9	11209.2	11159.5	11544.3	11327.1	11230.9
30°	12822.9	13021.5	12698.7	12686.3	12670.8	12829.1	12900.5	13154.9	12934.6	12838.4
32.5°	14647.6	14855.5	14470.7	14359.0	14300.1	14396.3	14337.3	14542.1	14390.1	14241.1
35°	16577.9	16782.7	16416.5	16199.3	15963.4	15761.7	15550.7	15603.4	15460.7	15234.2
37.5°	18402.6	18778.1	18390.2	18157.5	17723.0	17328.9	16739.3	16494.1	16360.7	16152.7
40°	20261.5	20475.6	20180.8	19982.2	19510.5	18893.0	17949.5	17431.3	17251.3	17049.6
42.5°	21630.1	21834.9	21676.6	21540.1	21170.8	20453.9	19234.3	18585.7	18325.1	18098.5
45°	22716.2	22868.3	22769.0	22818.6	22660.4	21965.2	20565.6	19823.9	19554.0	19277.8
47.5°	23153.8	23315.2	23473.4	23768.3	24038.2	23526.2	21996.3	21164.6	20879.1	20596.7
50°	23104.1	23268.6	23727.9	24354.8	25192.7	25022.0	23504.5	22592.1	22328.3	22005.6
52.5°	22706.9	22893.1	23482.8	24525.5	25859.9	26142.3	25040.6	24066.2	23817.9	23433.1
55°	21664.2	21775.9	22660.4	24137.6	26018.2	26924.3	26545.7	25636.5	25388.2	24851.3
57.5°	19730.8	19892.2	21180.1	23091.7	25620.9	27455.0	27867.7	27287.4	27048.5	26275.7
60°	17207.9	17465.4	18939.5	21335.3	24609.3	27451.9	29068.7	28910.4	28711.8	27678.4
62.5°	14352.8	14650.7	16068.9	18852.6	22840.4	26673.0	29819.7	30269.7	30167.3	28972.5
65°	11023.0	11227.8	12639.8	15640.7	20087.7	25000.3	29906.6	31197.6	31216.2	29956.3
67.5°	7339.3	7929.0	9154.8	11736.7	16401.0	22266.3	29143.2	31349.6	31529.6	30294.5
70°	3581.2	4357.0	5558.0	7627.9	11736.7	18073.7	27147.8	30102.1	30502.4	29307.7
72.5°	1486.5	1737.9	2392.7	3764.3	6737.3	12196.0	23138.3	26719.5	27461.2	25968.5
75°	1002.4	1086.2	1368.6	1930.3	3069.2	6014.2	16686.5	19923.3	21118.0	19612.9
77.5°	772.7	825.5	996.2	1349.9	1824.7	2274.7	8931.3	12006.7	12624.3	11687.1
80°	608.2	648.6	744.8	983.7	1294.1	1216.5	3044.3	5440.1	5797.0	4862.9
82.5°	527.6	543.1	533.8	667.2	859.6	710.7	999.3	2007.8	2215.8	1607.5
85°	381.7	425.2	443.8	412.7	456.2	360.0	409.6	710.7	782.0	698.2
87.5°	155.2	229.6	282.4	266.9	167.6	102.4	127.2	207.9	239.0	260.7
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°
6551.1	0°	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1
6554.2	2.5°	6557.3	6579.0	6594.5	6613.2	6625.6	6644.2	6681.4	6703.2	6706.3	6721.8
6603.8	5°	6616.3	6647.3	6681.4	6731.1	6786.9	6833.5	6904.9	6954.5	6973.1	6988.7
6724.9	7.5°	6743.5	6786.9	6849.0	6935.9	7016.6	7078.7	7165.5	7224.5	7283.5	7305.2
6917.3	10°	6932.8	6994.9	7084.9	7202.8	7289.7	7370.4	7460.4	7510.0	7569.0	7593.8
7146.9	12.5°	7168.6	7233.8	7351.7	7516.2	7596.9	7652.8	7683.8	7671.4	7683.8	7705.5
7423.1	15°	7438.6	7510.0	7643.5	7820.3	7876.2	7826.5	7758.3	7696.2	7686.9	7693.1
7758.3	17.5°	7758.3	7811.0	7966.2	8115.2	8074.8	7870.0	7721.0	7621.7	7572.1	7556.6
8186.5	20°	8205.2	8205.2	8332.4	8425.5	8155.5	7807.9	7575.2	7413.8	7311.4	7268.0
8770.0	22.5°	8748.2	8698.6	8779.3	8714.1	8140.0	7634.1	7311.4	7032.1	6876.9	6814.9
9586.1	25°	9437.2	9378.2	9356.5	8953.1	8028.3	7357.9	6833.5	6495.2	6358.7	6324.5
10762.3	27.5°	10476.8	10327.8	10045.4	9083.4	7823.4	6923.5	6274.9	5961.5	5883.9	5887.0
12273.6	30°	11860.9	11562.9	10870.9	9105.1	7488.3	6309.0	5703.9	5480.4	5443.2	5458.7
13542.8	32.5°	13142.5	12860.1	11715.0	9005.8	6973.1	5707.0	5191.8	5042.9	4987.0	5005.6
14511.1	35°	14148.0	14070.4	12497.0	8866.2	6340.1	5142.2	4732.5	4605.3	4496.7	4471.9
15423.5	37.5°	15097.6	15066.6	13083.6	8670.7	5713.2	4741.9	4363.3	4195.7	4037.4	3950.5
16432.0	40°	16140.3	16109.3	13468.4	8369.6	5157.7	4394.3	4031.2	3810.9	3615.4	3457.1
17574.0	42.5°	17313.4	17130.3	13651.5	7938.3	4686.0	4099.5	3761.2	3463.3	3205.7	3059.9
18865.0	45°	18595.0	18182.3	13648.4	7389.0	4288.8	3829.5	3472.6	3050.6	2811.6	2675.1
20190.1	47.5°	19954.3	19187.8	13480.8	6780.7	3904.0	3531.6	3025.7	2703.0	2544.7	2460.9
21630.1	50°	21357.0	20128.1	13195.3	6082.5	3509.8	3193.3	2746.4	2526.1	2405.1	2327.5
23057.6	52.5°	22675.9	20981.5	12850.8	5291.1	3109.5	2864.4	2622.3	2451.6	2324.4	2237.5
24441.7	55°	23901.7	21717.0	12363.6	4481.2	2783.7	2644.0	2563.3	2420.6	2274.7	2172.3
25847.5	57.5°	24991.0	22194.9	11522.6	3720.9	2550.9	2492.0	2501.3	2367.8	2200.2	2113.4
27231.6	60°	25897.1	22545.6	10278.2	3016.4	2361.6	2343.0	2405.1	2268.5	2073.0	1973.7
28401.5	62.5°	26440.2	22539.3	8751.3	2470.2	2200.2	2206.5	2277.8	2144.4	1945.8	1852.7
29012.9	65°	26393.7	21987.0	7075.5	2113.4	2045.1	2051.3	2144.4	2007.8	1840.3	1784.4
28705.6	67.5°	25459.6	20640.1	5427.7	1880.6	1874.4	1902.3	2010.9	1914.7	1775.1	1768.9
26874.7	70°	22930.4	17844.0	3910.2	1694.4	1697.5	1737.9	1880.6	1855.8	1741.0	1753.4
22595.2	72.5°	18387.1	13604.9	2625.4	1498.9	1502.0	1567.2	1756.5	1809.2	1706.8	1871.3
16031.7	75°	12245.7	8484.5	1688.2	1291.0	1294.1	1377.9	1647.9	1719.2	1613.7	1865.1
8341.7	77.5°	5883.9	3814.0	1222.7	1086.2	1086.2	1163.7	1424.4	1539.2	1374.8	1449.2
2681.3	80°	2032.7	1433.7	962.0	875.1	856.5	909.3	1201.0	1334.4	1185.5	1092.4
875.1	82.5°	800.7	744.8	772.7	679.6	617.6	651.7	934.1	1101.7	872.0	788.2
493.4	85°	459.3	484.1	546.2	450.0	356.9	400.3	685.8	791.3	657.9	580.3
161.4	87.5°	124.1	170.7	251.4	232.7	161.4	170.7	325.8	437.6	378.6	291.7
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°
6551.1
6718.7
6985.6
7308.3
7606.2
7711.7
7714.8
7578.3
7258.6
6805.6
6330.8
5896.3
5511.5
5030.5
4490.5
3953.6
3472.6
3069.2
2668.8
2442.3
2299.6
2200.2
2132.0
2057.5
1930.3
1824.7
1781.3
1778.2
1750.3
1896.1
1880.6
1328.2
1024.1
785.1
592.7
301.0
0.0

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