

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: P944024

Luminaire Tested: **GALN-SB8D-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63570 lumens
Efficiency: N/A
Efficacy: 108.7 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

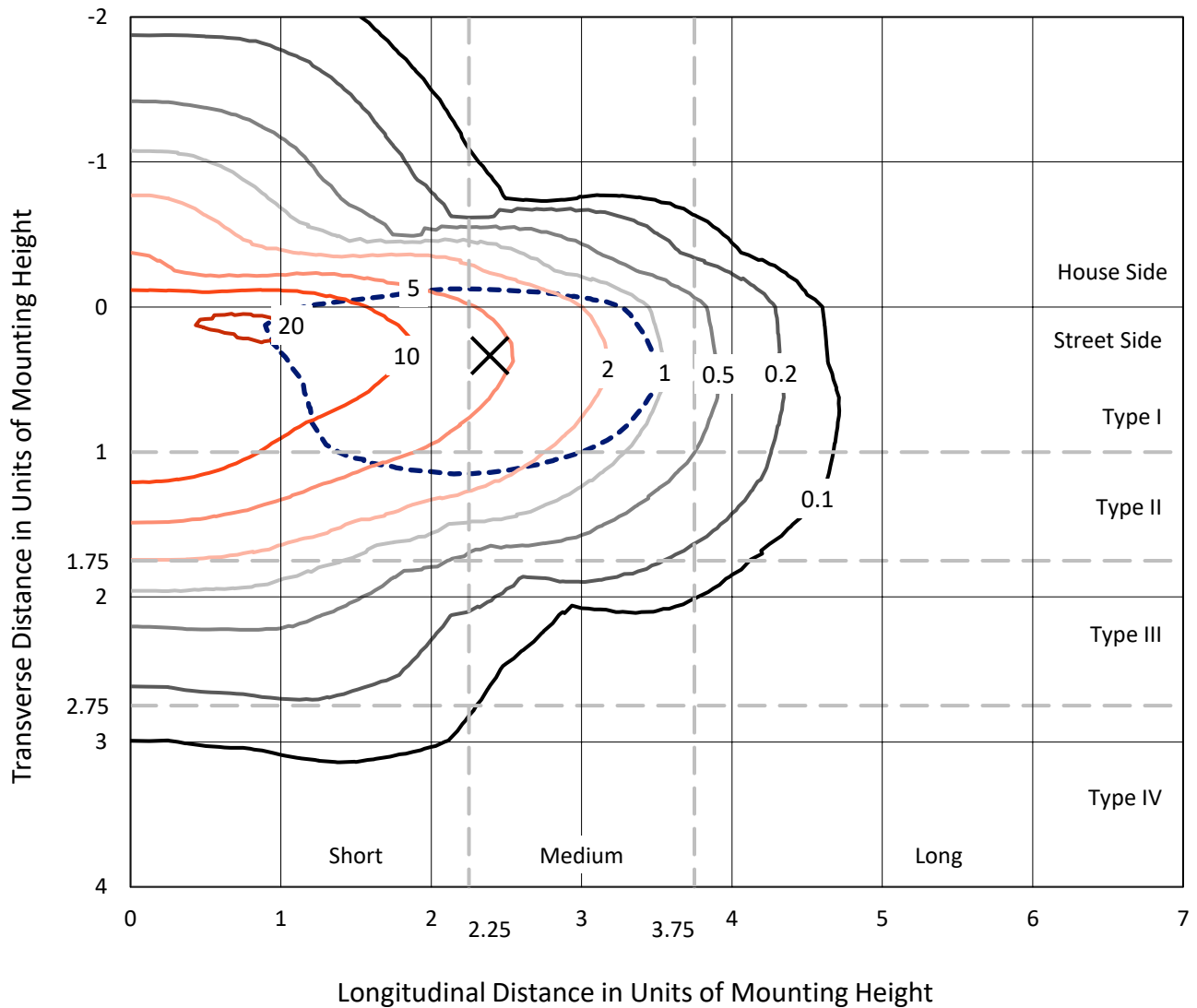
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

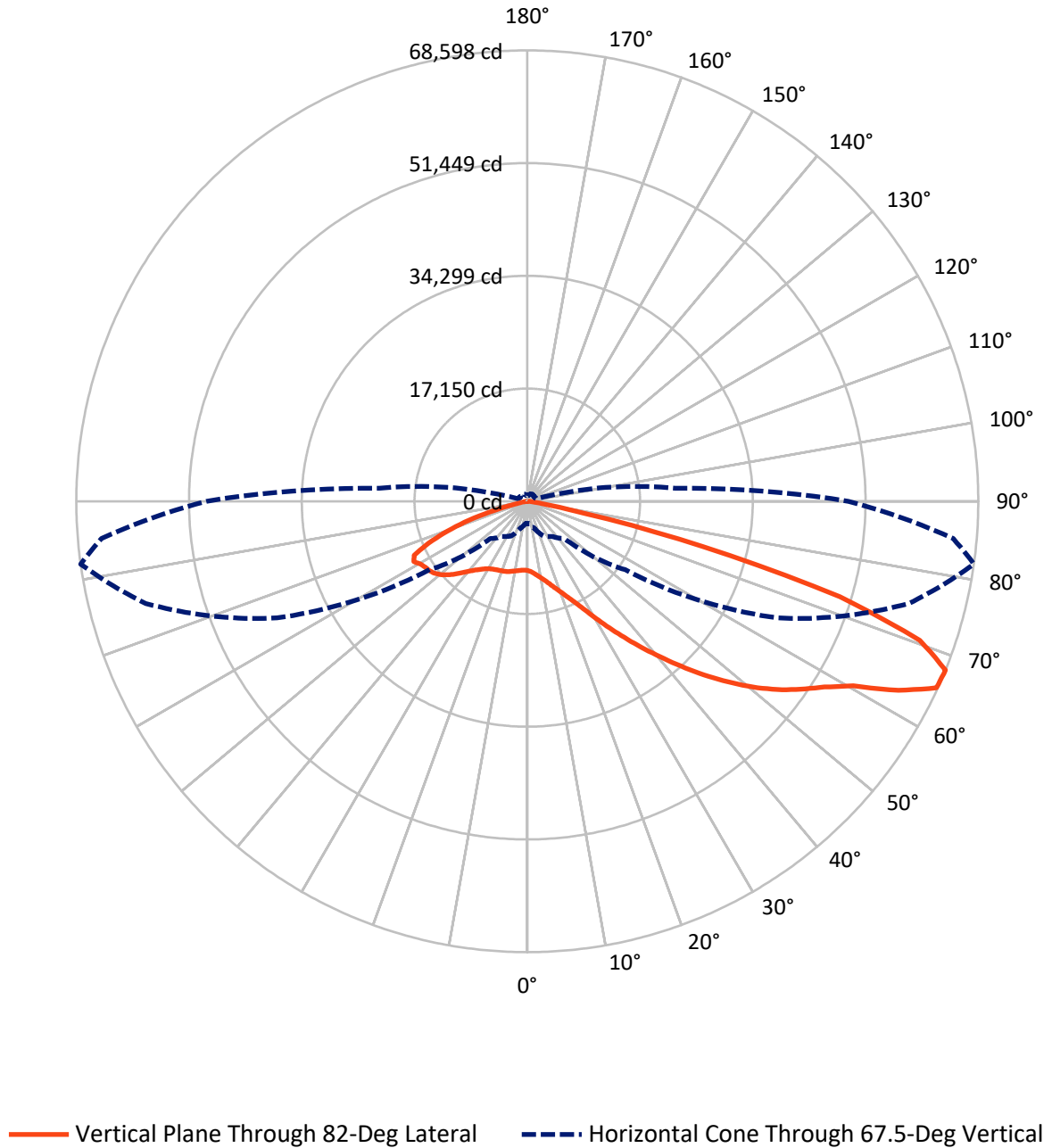
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 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	11515.1	0.0	11515.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	52054.9	0.0	52054.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	63570.0	0.0	63570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	938.3	1.5
10°-20°	2438.2	3.8
20°-30°	3905.2	6.1
30°-40°	6905.6	10.9
40°-50°	12099.2	19.0
50°-60°	16137.0	25.4
60°-70°	15022.7	23.6
70°-80°	5765.7	9.1
80°-90°	358.1	0.6
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°	63570.0	100.0
0°-180°	63570.0	100.0

Coefficient of Utilization



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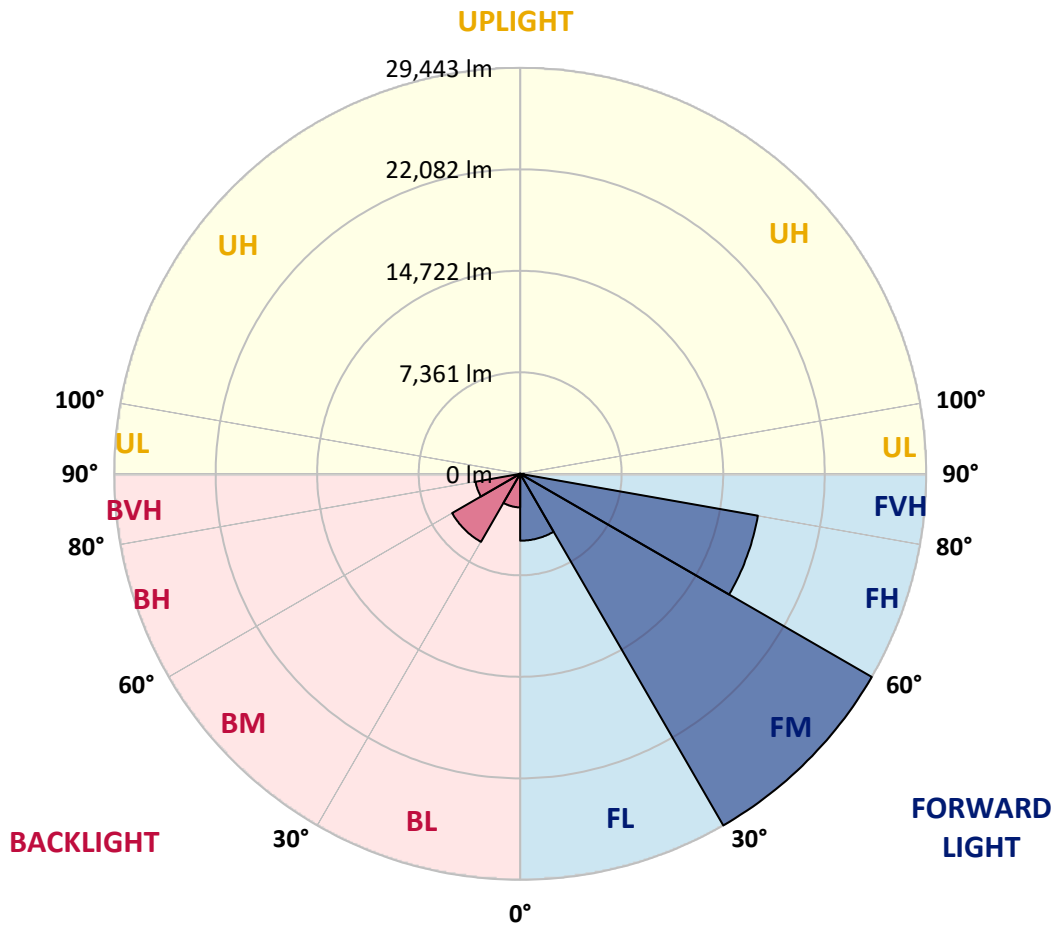
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4849.7	7.6			
FM (30°-60°)	29443.0	46.3			
FH (60°-80°)	17501.8	27.5			G5
FVH (80°-90°)	260.4	0.4			G3/500
BL (0°-30°)	2432.0	3.8	B3/2500		
BM (30°-60°)	5698.8	9.0	B4/8500		
BH (60°-80°)	3286.6	5.2	B4/5000		G4/5000
BVH (80°-90°)	97.7	0.2			G1/100
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°	82°	
0°	10531.4	10531.4	10531.4	10531.4	10531.4	10531.4	10531.4	10531.4	10531.4	10531.4	10531.4
2.5°	11131.0	11195.0	11158.4	11140.1	11108.1	11062.3	11025.7	10911.3	10792.3	10714.5	10714.5
5°	11355.2	11419.3	11414.7	11433.0	11455.9	11469.7	11460.5	11332.4	11163.0	11030.3	11030.3
7.5°	11163.0	11236.2	11295.7	11387.3	11547.5	11716.8	11799.2	11771.7	11597.8	11414.7	11414.7
10°	10618.4	10696.2	10838.0	11053.2	11391.9	11758.0	12064.7	12206.5	12096.7	11895.3	11895.3
12.5°	9620.6	9698.4	9977.6	10444.4	11012.0	11648.2	12234.0	12613.9	12641.3	12440.0	12440.0
15°	8499.3	8577.1	8874.6	9460.4	10325.4	11346.1	12325.5	13044.1	13286.7	13112.8	13112.8
17.5°	7803.6	7872.2	8096.5	8567.9	9469.6	10741.9	12293.5	13501.8	14055.6	13918.3	13918.3
20°	7593.0	7652.5	7757.8	8087.3	8838.0	10114.9	12083.0	13932.0	14884.0	14806.2	14806.2
22.5°	7817.3	7872.2	7904.3	8050.7	8522.1	9703.0	11817.5	14371.4	15845.2	15854.3	15854.3
25°	8334.5	8389.4	8352.8	8444.3	8650.3	9574.8	11716.8	14888.6	17053.4	17154.1	17154.1
27.5°	9185.8	9190.4	9103.4	9098.8	9130.9	9767.1	11822.1	15442.4	18577.6	18765.2	18765.2
30°	10893.0	10824.3	10490.2	10128.6	9963.9	10343.7	12115.0	16096.9	20376.3	20710.4	20710.4
32.5°	13524.7	13424.0	12810.7	11945.7	11076.0	11272.9	12641.3	16842.9	22335.2	22939.3	22939.3
35°	16380.6	16353.2	15712.4	14426.3	12906.8	12595.6	13497.2	17822.4	24472.6	25433.7	25433.7
37.5°	19035.2	19021.5	18655.4	17140.4	15291.4	14440.1	14870.3	19103.9	26761.0	28152.4	28152.4
40°	21461.0	21502.2	21136.0	19781.3	17918.5	16806.3	16737.6	20687.5	29305.8	31113.6	31113.6
42.5°	23557.2	23603.0	23232.2	22229.9	20513.6	19424.3	19030.7	22628.1	31791.0	34294.6	34294.6
45°	24980.6	25264.4	25209.4	24408.5	23177.3	22046.8	21785.9	25063.0	34624.1	37667.7	37667.7
47.5°	25383.4	25644.3	26056.2	26166.0	25415.4	24303.2	24614.5	27996.8	37489.2	41045.4	41045.4
50°	24390.2	24632.8	25488.6	26628.3	27150.0	26806.8	27365.2	31141.1	40423.0	44414.0	44414.0
52.5°	22431.3	22678.4	23758.6	25561.9	27690.1	28770.3	30125.0	34239.6	43265.2	47604.1	47604.1
55°	19598.2	19859.1	21245.9	23287.2	26660.3	29580.4	32427.2	37333.6	45869.5	50473.8	50473.8
57.5°	15744.5	15936.7	17378.4	20234.4	24069.8	28774.8	34125.2	40711.3	48322.7	53293.2	53293.2
60°	10261.4	10430.7	12105.8	15291.4	19776.7	26083.6	34463.9	44478.1	51581.4	56959.3	56959.3
62.5°	6824.1	6938.5	7931.7	10270.5	13927.4	20916.3	32482.1	47485.1	56359.7	63339.4	63339.4
65°	4682.1	4796.6	5789.8	7419.1	8998.1	13835.9	26783.9	47086.9	60689.4	68406.0	68406.0
67.5°	3341.1	3437.2	4279.4	5817.2	6512.9	8037.0	18156.5	41997.4	60067.0	68598.3	68598.3
70°	2393.7	2448.6	3144.3	4531.1	5176.4	4828.6	10096.6	32120.5	52592.9	63344.0	63344.0
72.5°	1675.1	1693.4	2183.2	3451.0	4169.5	3524.2	4805.7	21415.2	39777.7	49718.6	49718.6
75°	1135.1	1158.0	1469.2	2531.0	3345.7	2691.2	2544.7	11483.4	23351.2	27520.8	27520.8
77.5°	695.7	704.8	947.4	1730.1	2503.6	2050.4	1638.5	4865.2	9034.8	8870.0	8870.0
80°	393.6	393.6	604.1	1075.6	1707.2	1322.7	1148.8	2068.7	2860.5	2512.7	2512.7
82.5°	219.7	224.3	439.4	668.2	1130.5	782.6	631.6	956.6	1235.8	1093.9	1093.9
85°	91.5	100.7	270.0	315.8	540.1	389.0	256.3	402.8	457.7	407.3	407.3
87.5°	9.2	13.7	82.4	59.5	64.1	77.8	36.6	77.8	64.1	64.1	64.1
90°	0.0	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°
10531.4	0°	10531.4	10531.4	10531.4	10531.4	10531.4	10531.4	10531.4	10531.4	10531.4	10531.4
10687.0	2.5°	10600.1	10531.4	10357.5	10156.1	9890.6	9762.5	9588.6	9469.6	9368.9	9378.0
10952.5	5°	10806.0	10632.1	10243.1	9757.9	9153.8	8723.5	8265.8	7950.0	7693.7	7638.8
11318.6	7.5°	11089.8	10815.2	10133.2	9259.0	8238.4	7464.9	6773.8	6329.8	6014.0	5913.3
11762.6	10°	11455.9	11057.7	9991.3	8632.0	7162.8	6178.8	5437.3	5089.5	4874.4	4801.1
12284.3	12.5°	11881.6	11336.9	9803.7	7867.7	6055.2	5107.8	4636.4	4462.5	4393.8	4370.9
12925.1	15°	12417.1	11684.8	9519.9	6961.4	5117.0	4453.3	4251.9	4229.0	4238.2	4229.0
13694.0	17.5°	13053.3	12064.7	9057.6	6027.7	4485.3	4119.2	4046.0	4064.3	4087.2	4082.6
14554.5	20°	13748.9	12440.0	8467.2	5199.3	4055.1	3881.2	3840.0	3858.3	3876.6	3867.5
15547.7	22.5°	14540.7	12842.7	7812.7	4554.0	3766.8	3661.5	3615.7	3620.3	3620.3	3602.0
16806.3	25°	15488.2	13286.7	7126.2	4096.3	3547.1	3464.7	3409.8	3391.5	3364.0	3309.1
18335.0	27.5°	16618.6	13758.1	6467.1	3775.9	3373.2	3295.4	3231.3	3185.5	3116.9	3025.3
20170.3	30°	17891.0	14330.2	5908.8	3574.5	3235.9	3158.0	3084.8	3016.2	2915.5	2801.0
22280.2	32.5°	19387.7	14943.5	5501.4	3441.8	3112.3	3029.9	2942.9	2860.5	2750.7	2636.3
24651.1	35°	21172.6	15685.0	5263.4	3350.3	3016.2	2906.3	2810.2	2718.7	2636.3	2535.6
27227.9	37.5°	23108.7	16472.2	5190.2	3304.5	2952.1	2782.7	2672.9	2608.8	2599.7	2540.2
30015.2	40°	25227.8	17405.9	5245.1	3277.0	2883.4	2663.7	2544.7	2531.0	2553.9	2448.6
32994.7	42.5°	27470.4	18513.5	5336.6	3245.0	2787.3	2544.7	2430.3	2430.3	2412.0	2265.6
36143.6	45°	29896.2	19790.4	5428.2	3167.2	2672.9	2425.7	2338.8	2306.7	2228.9	2087.1
39310.8	47.5°	32340.2	21090.3	5496.8	3025.3	2535.6	2325.1	2247.2	2174.0	2059.6	1931.4
42418.5	50°	34660.7	22257.4	5423.6	2814.8	2380.0	2228.9	2146.6	2045.9	1922.3	1835.3
45361.4	52.5°	36734.0	23268.9	5112.4	2567.6	2215.2	2128.2	2055.0	1949.8	1849.1	1757.5
48016.0	55°	38537.3	24088.1	4563.1	2334.2	2068.7	2041.3	1968.1	1835.3	1698.0	1620.2
50647.7	57.5°	40267.4	24710.6	3876.6	2142.0	1936.0	1945.2	1835.3	1716.3	1588.2	1505.8
54194.8	60°	42569.5	25543.6	3180.9	1963.5	1794.1	1821.6	1702.6	1615.6	1455.4	1350.2
60277.5	62.5°	46249.4	26838.8	2526.4	1743.8	1629.4	1638.5	1588.2	1482.9	1290.7	1167.1
64785.7	65°	49169.4	26362.8	1990.9	1505.8	1441.7	1455.4	1455.4	1341.0	1135.1	993.2
65028.3	67.5°	48839.9	22573.2	1588.2	1272.4	1263.2	1272.4	1304.4	1208.3	1006.9	892.5
60076.1	70°	44990.7	17955.1	1272.4	1057.3	1098.5	1075.6	1167.1	1103.0	906.2	791.8
46574.3	72.5°	36711.1	12934.3	970.3	874.2	842.1	878.8	1052.7	993.2	755.2	627.0
24669.4	75°	21451.8	6901.9	723.1	691.1	608.7	732.3	933.7	846.7	576.7	462.3
7561.0	77.5°	6984.3	2407.4	530.9	508.0	453.1	590.4	796.4	714.0	471.4	366.2
2215.2	80°	1871.9	727.7	361.6	334.1	292.9	439.4	631.6	567.5	338.7	238.0
952.0	82.5°	750.6	306.7	210.5	187.7	160.2	302.1	498.9	457.7	251.7	151.0
297.5	85°	242.6	100.7	77.8	59.5	73.2	187.7	297.5	311.2	178.5	77.8
45.8	87.5°	32.0	13.7	13.7	18.3	13.7	32.0	91.5	87.0	50.3	9.2
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°
10531.4
9286.5
7515.2
5812.6
4746.2
4357.2
4224.5
4073.4
3862.9
3592.8
3299.9
3016.2
2791.9
2640.9
2526.4
2535.6
2453.2
2265.6
2082.5
1926.9
1821.6
1748.4
1611.1
1496.6
1336.4
1158.0
979.5
874.2
778.1
613.3
448.5
352.4
233.4
151.0
59.5
0.0
0.0

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