

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: P941984

Luminaire Tested: **GALN-SB5D-740-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941984  
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-SB5D-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

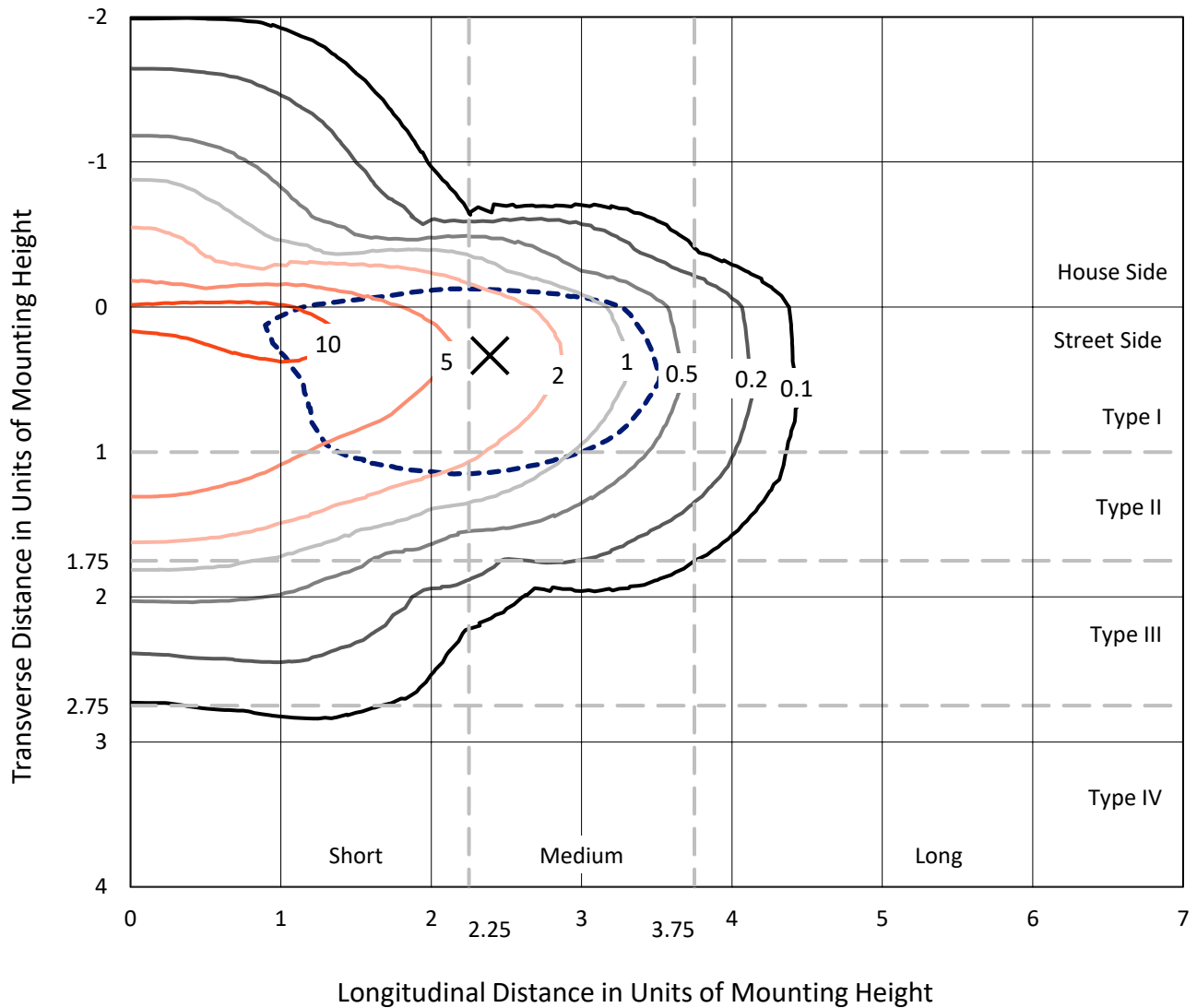
Lumens per Lamp: N/A  
Luminaire Lumens: 39712 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

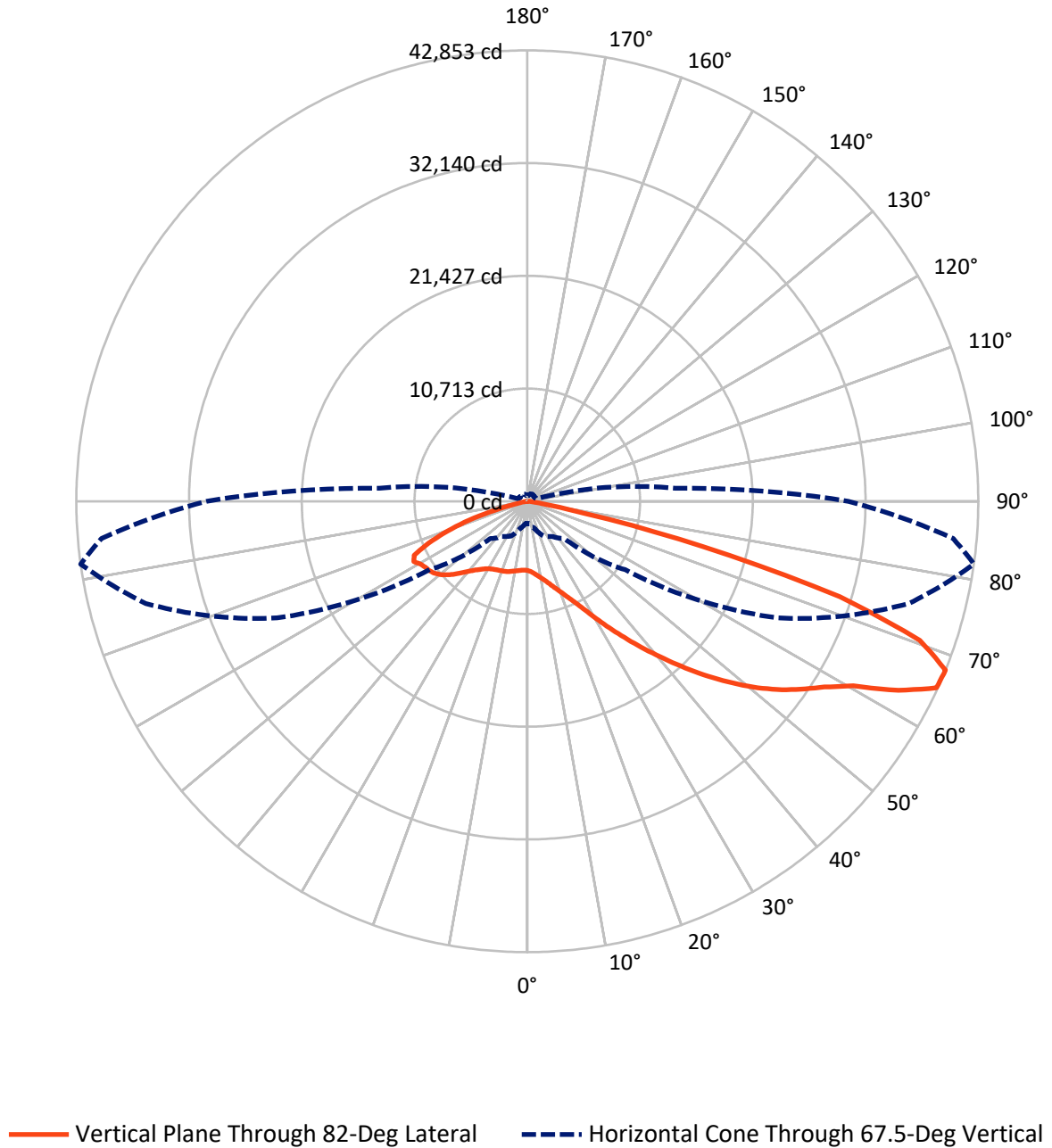
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7193.5	0.0	7193.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	32518.5	0.0	32518.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	39712.0	0.0	39712.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	586.1	1.5
10°-20°	1523.1	3.8
20°-30°	2439.6	6.1
30°-40°	4313.9	10.9
40°-50°	7558.4	19.0
50°-60°	10080.7	25.4
60°-70°	9384.6	23.6
70°-80°	3601.8	9.1
80°-90°	223.7	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°	39712.0	100.0
0°-180°	39712.0	100.0

**Coefficient of Utilization**



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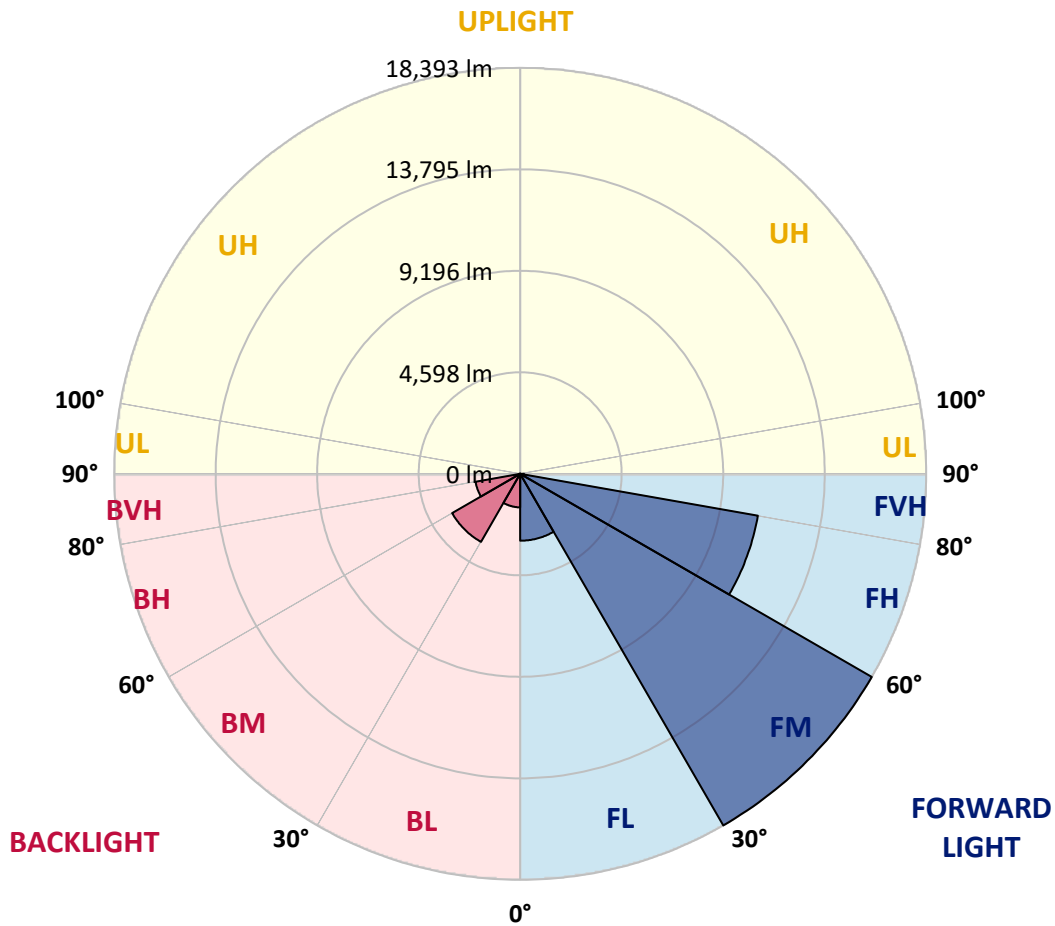
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3029.6	7.6			
FM (30°-60°)	18393.0	46.3			
FH (60°-80°)	10933.3	27.5			G4/12000
FVH (80°-90°)	162.6	0.4			G2/225
BL (0°-30°)	1519.2	3.8	B3/2500		
BM (30°-60°)	3560.0	9.0	B3/5000		
BH (60°-80°)	2053.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	61.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6578.9	6578.9	6578.9	6578.9	6578.9	6578.9	6578.9	6578.9	6578.9	6578.9
2.5°	6953.5	6993.5	6970.6	6959.2	6939.2	6910.6	6887.7	6816.2	6741.9	6693.3
5°	7093.6	7133.6	7130.8	7142.2	7156.5	7165.1	7159.3	7079.3	6973.5	6890.6
7.5°	6973.5	7019.2	7056.4	7113.6	7213.7	7319.5	7370.9	7353.8	7245.1	7130.8
10°	6633.3	6681.9	6770.5	6904.9	7116.5	7345.2	7536.8	7625.4	7556.8	7431.0
12.5°	6010.0	6058.6	6233.0	6524.6	6879.1	7276.6	7642.5	7879.9	7897.0	7771.2
15°	5309.5	5358.1	5543.9	5909.9	6450.3	7087.9	7699.7	8148.6	8300.2	8191.5
17.5°	4874.9	4917.8	5057.9	5352.4	5915.6	6710.5	7679.7	8434.5	8780.5	8694.7
20°	4743.4	4780.5	4846.3	5052.1	5521.0	6318.8	7548.2	8703.3	9298.0	9249.4
22.5°	4883.5	4917.8	4937.8	5029.3	5323.8	6061.4	7382.4	8977.8	9898.4	9904.1
25°	5206.5	5240.8	5218.0	5275.2	5403.8	5981.4	7319.5	9300.9	10653.2	10716.1
27.5°	5738.3	5741.2	5686.9	5684.0	5704.0	6101.5	7385.2	9646.8	11605.3	11722.6
30°	6804.8	6761.9	6553.2	6327.3	6224.4	6461.7	7568.2	10055.7	12729.0	12937.7
32.5°	8448.8	8385.9	8002.8	7462.4	6919.2	7042.1	7897.0	10521.7	13952.7	14330.1
35°	10232.9	10215.8	9815.5	9012.1	8062.8	7868.4	8431.7	11133.6	15287.9	15888.4
37.5°	11891.3	11882.7	11653.9	10707.6	9552.5	9020.7	9289.4	11934.1	16717.5	17586.7
40°	13406.6	13432.3	13203.6	12357.3	11193.6	10498.8	10456.0	12923.4	18307.2	19436.6
42.5°	14716.1	14744.7	14513.1	13887.0	12814.8	12134.3	11888.4	14135.7	19859.7	21423.7
45°	15605.3	15782.6	15748.3	15247.9	14478.8	13772.6	13609.6	15656.8	21629.6	23530.9
47.5°	15856.9	16019.9	16277.2	16345.8	15876.9	15182.2	15376.6	17489.5	23419.4	25641.0
50°	15236.5	15388.0	15922.7	16634.6	16960.6	16746.1	17094.9	19453.7	25252.1	27745.3
52.5°	14012.8	14167.2	14841.9	15968.4	17297.9	17972.7	18819.0	21389.4	27027.7	29738.2
55°	12242.9	12405.9	13272.2	14547.4	16654.6	18478.8	20257.2	23322.2	28654.5	31530.9
57.5°	9835.5	9955.6	10856.2	12640.4	15036.3	17975.6	21317.9	25432.3	30187.0	33292.1
60°	6410.2	6516.0	7562.5	9552.5	12354.4	16294.4	21529.5	27785.3	32222.8	35582.3
62.5°	4263.0	4334.5	4954.9	6416.0	8700.4	13066.4	20291.5	29663.8	35207.7	39568.0
65°	2924.9	2996.4	3616.8	4634.7	5621.1	8643.3	16731.8	29415.1	37912.5	42733.1
67.5°	2087.2	2147.2	2673.3	3634.0	4068.6	5020.7	11342.3	26235.7	37523.7	42853.1
70°	1495.3	1529.7	1964.2	2830.6	3233.7	3016.4	6307.3	20065.6	32854.6	39570.8
72.5°	1046.5	1057.9	1363.8	2155.8	2604.7	2201.6	3002.1	13378.0	24849.0	31059.1
75°	709.1	723.4	917.8	1581.1	2090.0	1681.2	1589.7	7173.6	14587.5	17192.1
77.5°	434.6	440.3	591.8	1080.8	1564.0	1280.9	1023.6	3039.3	5644.0	5541.1
80°	245.9	245.9	377.4	671.9	1066.5	826.3	717.6	1292.3	1787.0	1569.7
82.5°	137.2	140.1	274.5	417.4	706.2	488.9	394.6	597.6	772.0	683.3
85°	57.2	62.9	168.7	197.3	337.4	243.0	160.1	251.6	285.9	254.5
87.5°	5.7	8.6	51.5	37.2	40.0	48.6	22.9	48.6	40.0	40.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6578.9	0°	6578.9	6578.9	6578.9	6578.9	6578.9	6578.9	6578.9	6578.9	6578.9	6578.9
6676.1	2.5°	6621.8	6578.9	6470.3	6344.5	6178.7	6098.6	5989.9	5915.6	5852.7	5858.4
6842.0	5°	6750.5	6641.8	6398.8	6095.7	5718.3	5449.6	5163.6	4966.4	4806.3	4771.9
7070.7	7.5°	6927.8	6756.2	6330.2	5784.1	5146.5	4663.3	4231.6	3954.2	3756.9	3694.0
7348.0	10°	7156.5	6907.7	6241.6	5392.4	4474.6	3859.9	3396.7	3179.4	3045.0	2999.3
7674.0	12.5°	7422.4	7082.1	6124.3	4914.9	3782.7	3190.8	2896.3	2787.7	2744.8	2730.5
8074.3	15°	7756.9	7299.4	5947.1	4348.8	3196.5	2782.0	2656.2	2641.9	2647.6	2641.9
8554.6	17.5°	8154.3	7536.8	5658.3	3765.5	2802.0	2573.2	2527.5	2538.9	2553.2	2550.4
9092.1	20°	8588.9	7771.2	5289.5	3248.0	2533.2	2424.6	2398.8	2410.3	2421.7	2416.0
9712.6	22.5°	9083.6	8022.8	4880.6	2844.9	2353.1	2287.3	2258.7	2261.6	2261.6	2250.2
10498.8	25°	9675.4	8300.2	4451.7	2559.0	2215.9	2164.4	2130.1	2118.6	2101.5	2067.2
11453.8	27.5°	10381.6	8594.6	4040.0	2358.8	2107.2	2058.6	2018.6	1990.0	1947.1	1889.9
12600.3	30°	11176.5	8952.0	3691.2	2233.0	2021.4	1972.8	1927.1	1884.2	1821.3	1749.8
13918.4	32.5°	12111.4	9335.2	3436.7	2150.1	1944.2	1892.8	1838.4	1787.0	1718.4	1646.9
15399.5	35°	13226.5	9798.4	3288.0	2092.9	1884.2	1815.6	1755.5	1698.3	1646.9	1584.0
17009.2	37.5°	14435.9	10290.1	3242.3	2064.3	1844.2	1738.4	1669.8	1629.7	1624.0	1586.8
18750.4	40°	15759.7	10873.4	3276.6	2047.2	1801.3	1664.0	1589.7	1581.1	1595.4	1529.7
20611.7	42.5°	17160.7	11565.3	3333.8	2027.1	1741.2	1589.7	1518.2	1518.2	1506.8	1415.3
22578.8	45°	18676.1	12363.0	3391.0	1978.5	1669.8	1515.4	1461.0	1441.0	1392.4	1303.8
24557.4	47.5°	20202.8	13175.0	3433.9	1889.9	1584.0	1452.5	1403.8	1358.1	1286.6	1206.6
26498.7	50°	21652.4	13904.1	3388.1	1758.4	1486.8	1392.4	1340.9	1278.0	1200.8	1146.5
28337.2	52.5°	22947.6	14536.0	3193.7	1604.0	1383.8	1329.5	1283.8	1218.0	1155.1	1097.9
29995.5	55°	24074.2	15047.8	2850.6	1458.2	1292.3	1275.2	1229.4	1146.5	1060.7	1012.1
31639.5	57.5°	25154.9	15436.6	2421.7	1338.1	1209.4	1215.1	1146.5	1072.2	992.1	940.7
33855.4	60°	26593.1	15957.0	1987.1	1226.6	1120.8	1137.9	1063.6	1009.3	909.2	843.5
37655.2	62.5°	28891.8	16766.1	1578.3	1089.3	1017.9	1023.6	992.1	926.4	806.3	729.1
40471.5	65°	30716.0	16468.8	1243.7	940.7	900.6	909.2	909.2	837.7	709.1	620.4
40623.0	67.5°	30510.1	14101.4	992.1	794.8	789.1	794.8	814.9	754.8	629.0	557.5
37529.4	70°	28105.6	11216.5	794.8	660.5	686.2	671.9	729.1	689.1	566.1	494.6
29094.8	72.5°	22933.3	8080.0	606.1	546.1	526.1	549.0	657.6	620.4	471.8	391.7
15410.9	75°	13400.9	4311.6	451.7	431.7	380.3	457.5	583.3	528.9	360.3	288.8
4723.3	77.5°	4363.1	1503.9	331.7	317.4	283.1	368.8	497.5	446.0	294.5	228.7
1383.8	80°	1169.4	454.6	225.9	208.7	183.0	274.5	394.6	354.5	211.6	148.7
594.7	82.5°	468.9	191.6	131.5	117.2	100.1	188.7	311.6	285.9	157.3	94.4
185.8	85°	151.5	62.9	48.6	37.2	45.7	117.2	185.8	194.4	111.5	48.6
28.6	87.5°	20.0	8.6	8.6	11.4	8.6	20.0	57.2	54.3	31.5	5.7
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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<u>180°</u>
6578.9
5801.2
4694.7
3631.1
2965.0
2721.9
2639.0
2544.7
2413.1
2244.4
2061.5
1884.2
1744.1
1649.7
1578.3
1584.0
1532.5
1415.3
1300.9
1203.7
1137.9
1092.2
1006.4
934.9
834.9
723.4
611.9
546.1
486.1
383.1
280.2
220.2
145.8
94.4
37.2
0.0
0.0

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