

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: P944364

Luminaire Tested: **GALN-SB9B-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944364
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-SB9B-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 450mA 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: 39624 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

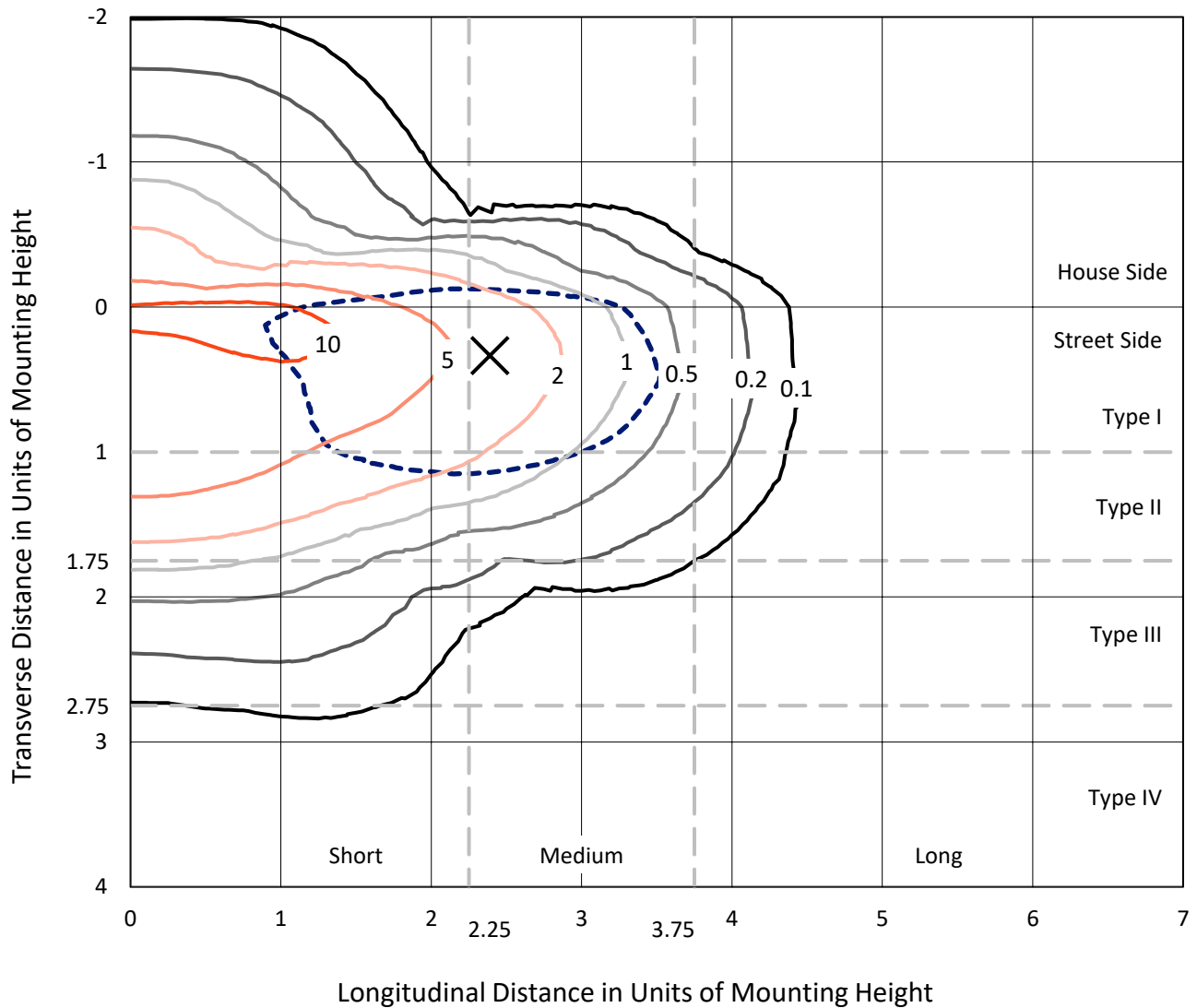
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

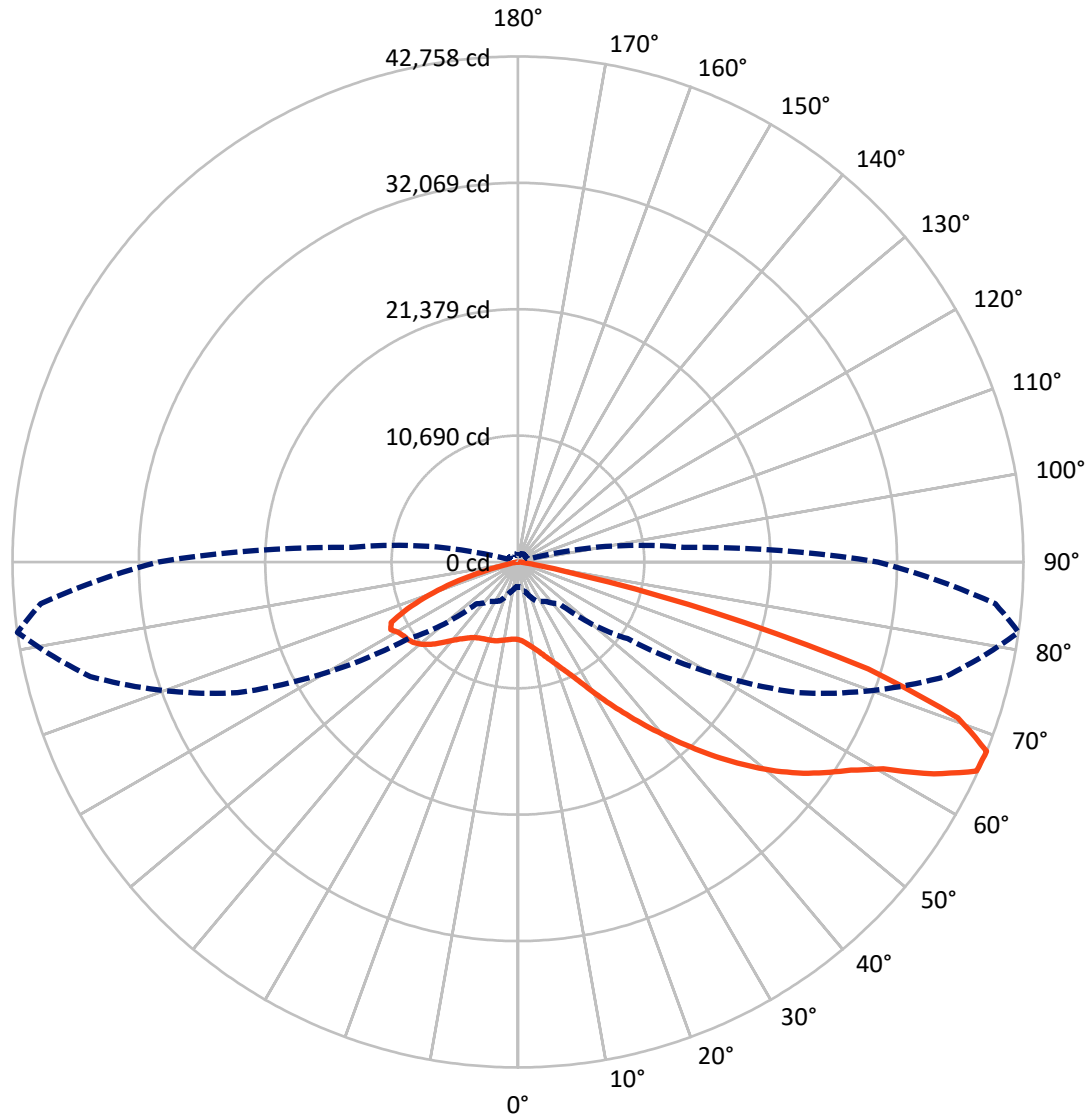
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7177.5	0.0	7177.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	32446.5	0.0	32446.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	39624.0	0.0	39624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.8	1.5
10°-20°	1519.8	3.8
20°-30°	2434.2	6.1
30°-40°	4304.3	10.9
40°-50°	7541.6	19.0
50°-60°	10058.4	25.4
60°-70°	9363.9	23.6
70°-80°	3593.8	9.1
80°-90°	223.2	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°	39624.0	100.0
0°-180°	39624.0	100.0

Coefficient of Utilization



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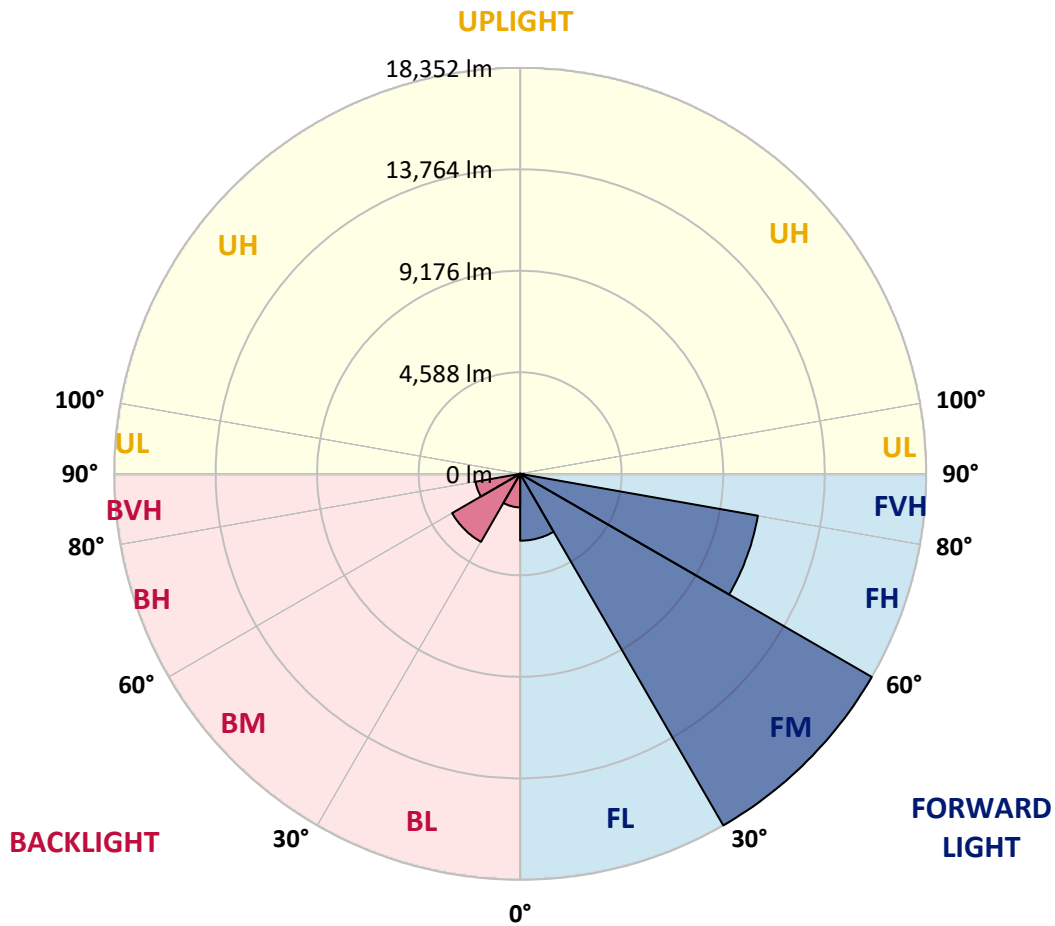
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3022.9	7.6			
FM (30°-60°)	18352.2	46.3			
FH (60°-80°)	10909.1	27.5			G4/12000
FVH (80°-90°)	162.3	0.4			G2/225
BL (0°-30°)	1515.9	3.8	B3/2500		
BM (30°-60°)	3552.1	9.0	B3/5000		
BH (60°-80°)	2048.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	60.9	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°	6564.4	6564.4	6564.4	6564.4	6564.4	6564.4	6564.4	6564.4	6564.4	6564.4
2.5°	6938.1	6978.0	6955.2	6943.8	6923.8	6895.3	6872.5	6801.1	6727.0	6678.5
5°	7077.9	7117.8	7115.0	7126.4	7140.6	7149.2	7143.5	7063.6	6958.0	6875.3
7.5°	6958.0	7003.7	7040.8	7097.8	7197.7	7303.2	7354.6	7337.5	7229.1	7115.0
10°	6618.6	6667.1	6755.5	6889.6	7100.7	7328.9	7520.1	7608.5	7540.0	7414.5
12.5°	5996.6	6045.1	6219.2	6510.2	6863.9	7260.4	7625.6	7862.4	7879.5	7754.0
15°	5297.7	5346.2	5531.6	5896.8	6436.0	7072.2	7682.7	8130.6	8281.8	8173.4
17.5°	4864.1	4906.9	5046.7	5340.5	5902.5	6695.6	7662.7	8415.8	8761.0	8675.4
20°	4732.8	4769.9	4835.5	5040.9	5508.8	6304.7	7531.5	8684.0	9277.4	9228.9
22.5°	4872.6	4906.9	4926.8	5018.1	5312.0	6048.0	7366.0	8957.9	9876.5	9882.2
25°	5195.0	5229.2	5206.4	5263.5	5391.8	5968.1	7303.2	9280.2	10629.6	10692.4
27.5°	5725.6	5728.5	5674.3	5671.4	5691.4	6087.9	7368.9	9625.4	11579.6	11696.6
30°	6789.7	6746.9	6538.7	6313.3	6210.6	6447.4	7551.4	10033.4	12700.8	12909.0
32.5°	8430.1	8367.3	7985.1	7445.9	6903.8	7026.5	7879.5	10498.4	13921.8	14298.4
35°	10210.3	10193.2	9793.8	8992.1	8045.0	7851.0	8413.0	11108.9	15254.1	15853.2
37.5°	11864.9	11856.4	11628.1	10683.8	9531.3	9000.7	9268.8	11907.7	16680.5	17547.7
40°	13376.9	13402.6	13174.4	12329.9	11168.8	10475.6	10432.8	12894.8	18266.7	19393.5
42.5°	14683.5	14712.0	14481.0	13856.2	12786.4	12107.4	11862.1	14104.4	19815.7	21376.2
45°	15570.7	15747.6	15713.4	15214.1	14446.7	13742.1	13579.5	15622.1	21581.6	23478.8
47.5°	15821.8	15984.4	16241.1	16309.6	15841.8	15148.5	15342.5	17450.7	23367.5	25584.2
50°	15202.7	15353.9	15887.4	16597.7	16923.0	16709.0	17057.1	19410.6	25196.2	27683.8
52.5°	13981.7	14135.8	14809.0	15933.0	17259.6	17932.9	18777.3	21342.0	26967.8	29672.3
55°	12215.8	12378.4	13242.8	14515.2	16617.7	18437.8	20212.3	23270.5	28591.0	31461.0
57.5°	9813.7	9933.5	10832.2	12612.3	15003.0	17935.7	21270.7	25375.9	30120.2	33218.3
60°	6396.0	6501.6	7545.7	9531.3	12327.1	16258.3	21481.8	27723.8	32151.4	35503.4
62.5°	4253.6	4324.9	4943.9	6401.7	8681.2	13037.4	20246.5	29598.1	35129.7	39480.3
65°	2918.4	2989.8	3608.8	4624.4	5608.7	8624.1	16694.7	29349.9	37828.5	42638.4
67.5°	2082.6	2142.5	2667.4	3625.9	4059.6	5009.6	11317.2	26177.5	37440.5	42758.2
70°	1492.0	1526.3	1959.9	2824.3	3226.5	3009.7	6293.3	20021.1	32781.8	39483.1
72.5°	1044.1	1055.5	1360.8	2151.0	2598.9	2196.7	2995.5	13348.4	24793.9	30990.3
75°	707.5	721.8	915.8	1577.6	2085.4	1677.5	1586.2	7157.7	14555.1	17154.1
77.5°	433.6	439.3	590.5	1078.4	1560.5	1278.1	1021.3	3032.6	5631.5	5528.8
80°	245.3	245.3	376.6	670.4	1064.1	824.5	716.1	1289.5	1783.0	1566.2
82.5°	136.9	139.8	273.9	416.5	704.6	487.8	393.7	596.2	770.3	681.8
85°	57.1	62.8	168.3	196.8	336.6	242.5	159.8	251.0	285.3	253.9
87.5°	5.7	8.6	51.4	37.1	39.9	48.5	22.8	48.5	39.9	39.9
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°
6564.4	0°	6564.4	6564.4	6564.4	6564.4	6564.4	6564.4	6564.4	6564.4	6564.4	6564.4
6661.4	2.5°	6607.1	6564.4	6455.9	6330.4	6165.0	6085.1	5976.7	5902.5	5839.7	5845.4
6826.8	5°	6735.5	6627.1	6384.6	6082.2	5705.7	5437.5	5152.2	4955.4	4795.6	4761.4
7055.0	7.5°	6912.4	6741.2	6316.2	5771.3	5135.1	4653.0	4222.2	3945.5	3748.6	3685.9
7331.8	10°	7140.6	6892.4	6227.7	5380.4	4464.7	3851.3	3389.2	3172.3	3038.3	2992.6
7657.0	12.5°	7405.9	7066.5	6110.8	4904.0	3774.3	3183.8	2889.9	2781.5	2738.7	2724.5
8056.4	15°	7739.7	7283.3	5933.9	4339.2	3189.5	2775.8	2650.3	2636.0	2641.7	2636.0
8535.7	17.5°	8136.3	7520.1	5645.7	3757.2	2795.8	2567.5	2521.9	2533.3	2547.6	2544.7
9072.0	20°	8569.9	7754.0	5277.7	3240.8	2527.6	2419.2	2393.5	2404.9	2416.3	2410.6
9691.1	22.5°	9063.4	8005.0	4869.8	2838.6	2347.9	2282.3	2253.7	2256.6	2256.6	2245.2
10475.6	25°	9654.0	8281.8	4441.9	2553.3	2210.9	2159.6	2125.4	2113.9	2096.8	2062.6
11428.4	27.5°	10358.6	8575.6	4031.0	2353.6	2102.5	2054.0	2014.1	1985.6	1942.8	1885.7
12572.4	30°	11151.7	8932.2	3683.0	2228.1	2016.9	1968.5	1922.8	1880.0	1817.3	1745.9
13887.6	32.5°	12084.6	9314.5	3429.1	2145.3	1939.9	1888.6	1834.4	1783.0	1714.5	1643.2
15365.3	35°	13197.2	9776.6	3280.8	2088.3	1880.0	1811.5	1751.6	1694.6	1643.2	1580.5
16971.5	37.5°	14403.9	10267.3	3235.1	2059.7	1840.1	1734.5	1666.1	1626.1	1620.4	1583.3
18708.8	40°	15724.8	10849.3	3269.3	2042.6	1797.3	1660.3	1586.2	1577.6	1591.9	1526.3
20566.0	42.5°	17122.7	11539.7	3326.4	2022.7	1737.4	1586.2	1514.9	1514.9	1503.4	1412.1
22528.8	45°	18634.7	12335.6	3383.5	1974.2	1666.1	1512.0	1457.8	1437.8	1389.3	1300.9
24502.9	47.5°	20158.1	13145.8	3426.2	1885.7	1580.5	1449.2	1400.7	1355.1	1283.8	1203.9
26440.0	50°	21604.5	13873.3	3380.6	1754.5	1483.5	1389.3	1338.0	1275.2	1198.2	1144.0
28274.4	52.5°	22896.8	14503.8	3186.6	1600.4	1380.8	1326.6	1280.9	1215.3	1152.5	1095.5
29929.0	55°	24020.8	15014.4	2844.3	1454.9	1289.5	1272.4	1226.7	1144.0	1058.4	1009.9
31569.4	57.5°	25099.2	15402.4	2416.3	1335.1	1206.7	1212.5	1144.0	1069.8	989.9	938.6
33780.3	60°	26534.1	15921.6	1982.7	1223.9	1118.3	1135.4	1061.3	1007.0	907.2	841.6
37571.7	62.5°	28827.8	16729.0	1574.8	1086.9	1015.6	1021.3	989.9	924.3	804.5	727.5
40381.8	65°	30647.9	16432.3	1241.0	938.6	898.6	907.2	907.2	835.9	707.5	619.1
40533.0	67.5°	30442.5	14070.1	989.9	793.1	787.4	793.1	813.1	753.1	627.6	556.3
37446.2	70°	28043.3	11191.6	793.1	659.0	684.7	670.4	727.5	687.5	564.9	493.5
29030.4	72.5°	22882.5	8062.1	604.8	544.9	524.9	547.7	656.2	619.1	470.7	390.8
15376.7	75°	13371.2	4302.1	450.7	430.8	379.4	456.5	582.0	527.8	359.5	288.1
4712.9	77.5°	4353.4	1500.6	330.9	316.7	282.4	368.0	496.4	445.0	293.8	228.2
1380.8	80°	1166.8	453.6	225.4	208.3	182.6	273.9	393.7	353.8	211.1	148.3
593.4	82.5°	467.9	191.1	131.2	117.0	99.8	188.3	311.0	285.3	156.9	94.1
185.4	85°	151.2	62.8	48.5	37.1	45.6	117.0	185.4	194.0	111.3	48.5
28.5	87.5°	20.0	8.6	8.6	11.4	8.6	20.0	57.1	54.2	31.4	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>
6564.4
5788.4
4684.3
3623.1
2958.4
2715.9
2633.2
2539.0
2407.8
2239.5
2056.9
1880.0
1740.2
1646.1
1574.8
1580.5
1529.1
1412.1
1298.0
1201.0
1135.4
1089.8
1004.2
932.9
833.0
721.8
610.5
544.9
485.0
382.3
279.6
219.7
145.5
94.1
37.1
0.0
0.0

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