

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: P943174

Luminaire Tested: **GALN-SB7C-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943174
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-SB7C-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 615mA 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: 41146 lumens
Efficiency: N/A
Efficacy: 117.4 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

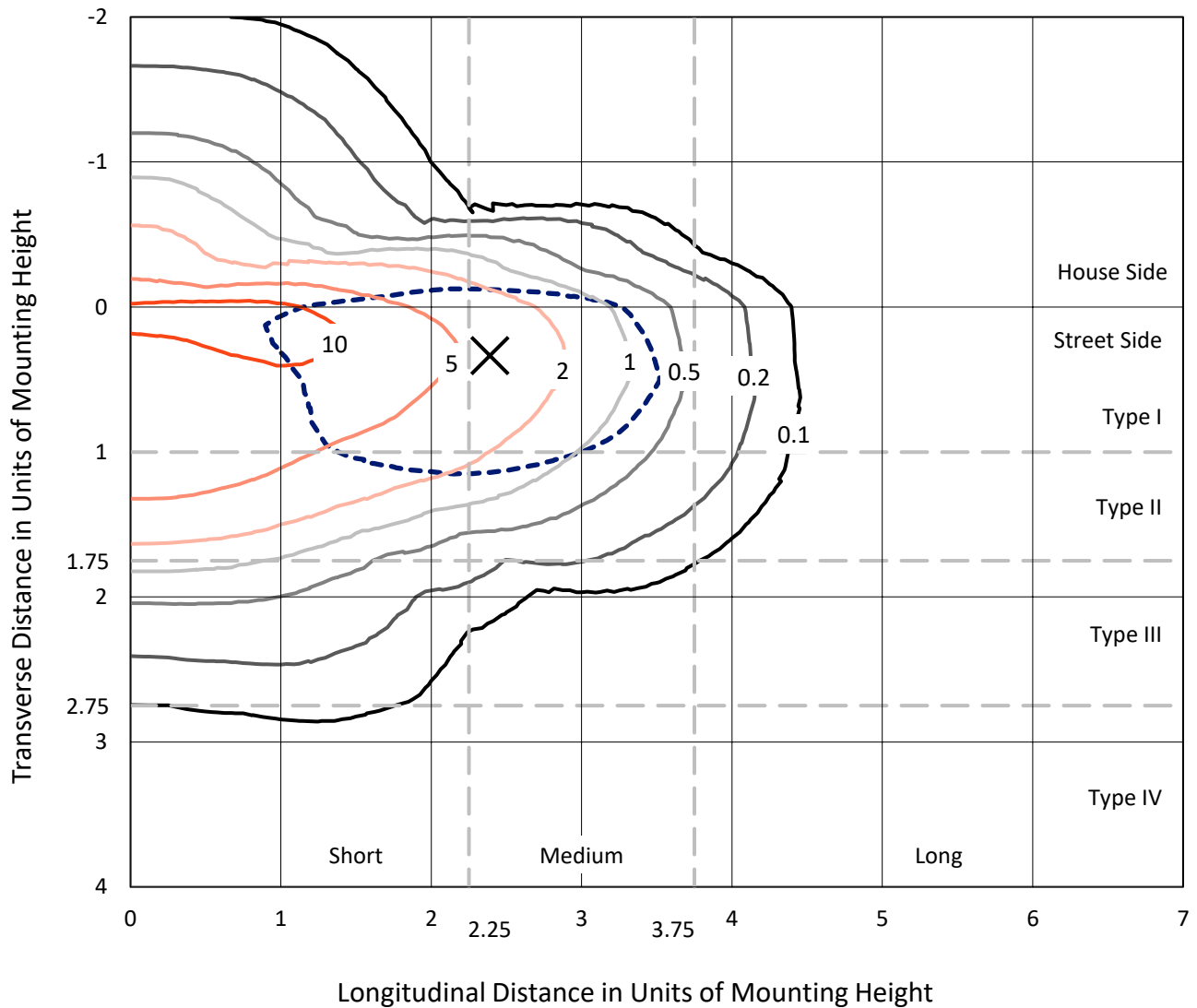
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

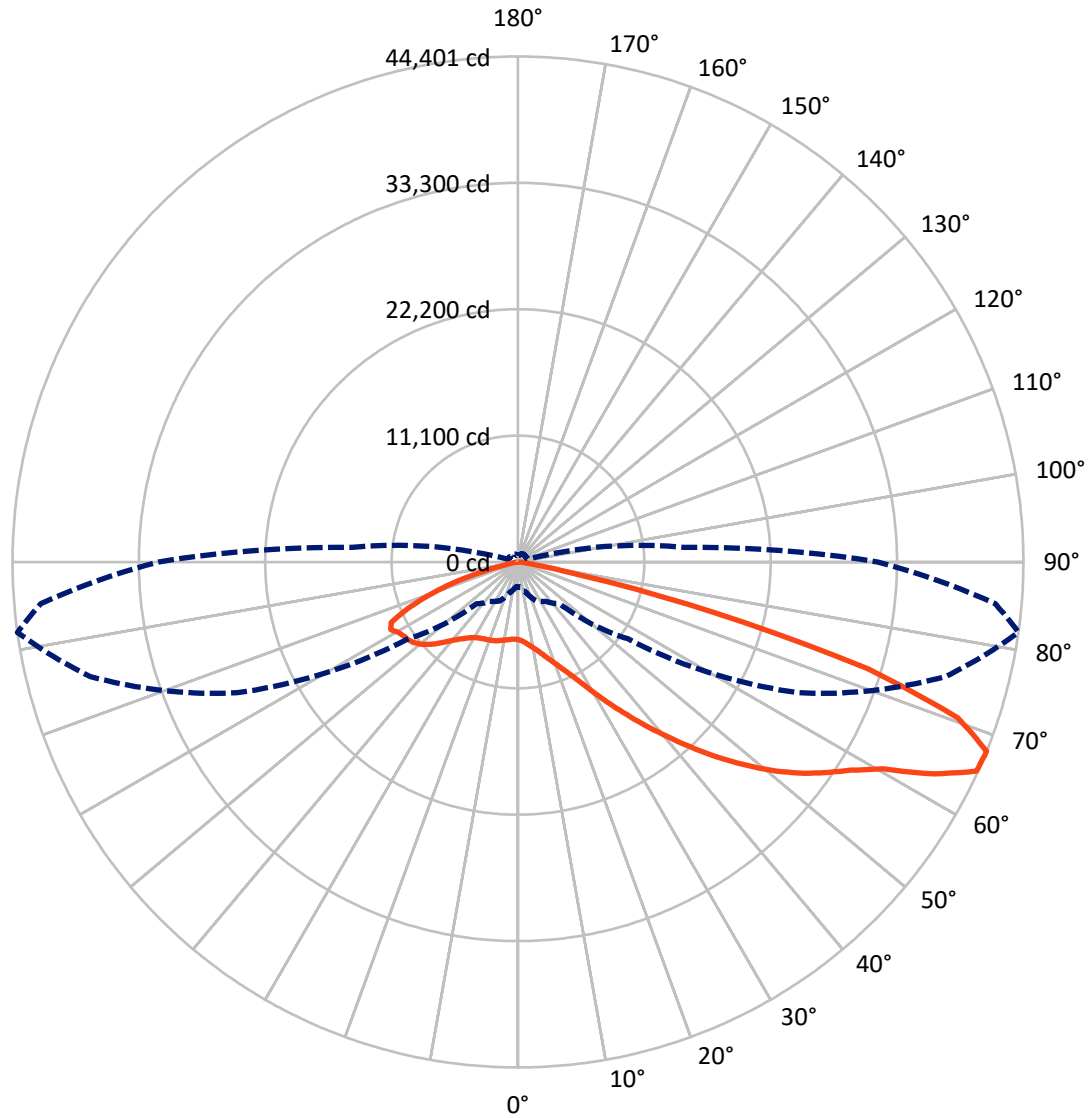
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	7453.2	0.0	7453.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	33692.8	0.0	33692.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	41146.0	0.0	41146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.3	1.5
10°-20°	1578.1	3.8
20°-30°	2527.7	6.1
30°-40°	4469.7	10.9
40°-50°	7831.3	19.0
50°-60°	10444.8	25.4
60°-70°	9723.5	23.6
70°-80°	3731.9	9.1
80°-90°	231.8	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°	41146.0	100.0
0°-180°	41146.0	100.0

Coefficient of Utilization



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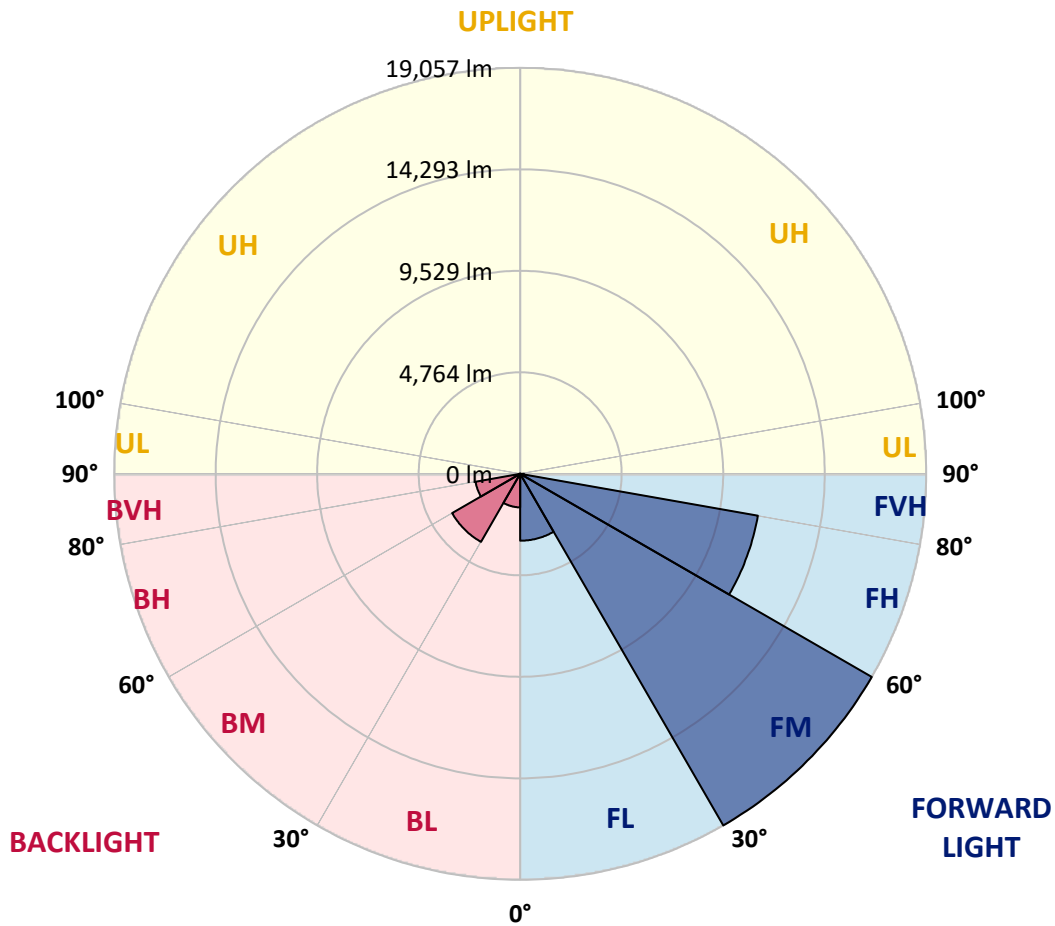
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3139.0	7.6			
FM (30°-60°)	19057.1	46.3			
FH (60°-80°)	11328.1	27.5			G4/12000
FVH (80°-90°)	168.5	0.4			G2/225
BL (0°-30°)	1574.1	3.8	B3/2500		
BM (30°-60°)	3688.6	9.0	B3/5000		
BH (60°-80°)	2127.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	63.3	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°	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5
2.5°	7204.6	7246.0	7222.3	7210.5	7189.8	7160.1	7136.4	7062.4	6985.4	6935.0
5°	7349.7	7391.2	7388.2	7400.1	7414.9	7423.8	7417.9	7334.9	7225.3	7139.4
7.5°	7225.3	7272.7	7311.2	7370.5	7474.2	7583.8	7637.1	7619.3	7506.7	7388.2
10°	6872.8	6923.1	7015.0	7154.2	7373.4	7610.4	7808.9	7900.7	7829.6	7699.3
12.5°	6227.0	6277.3	6458.0	6760.2	7127.6	7539.3	7918.5	8164.4	8182.2	8051.8
15°	5501.2	5551.6	5744.1	6123.3	6683.2	7343.8	7977.8	8442.9	8599.9	8487.3
17.5°	5050.9	5095.3	5240.5	5545.6	6129.2	6952.8	7957.0	8739.1	9097.6	9008.7
20°	4914.6	4953.1	5021.3	5234.6	5720.4	6546.9	7820.8	9017.6	9633.7	9583.4
22.5°	5059.8	5095.3	5116.1	5210.9	5516.0	6280.3	7648.9	9302.0	10255.9	10261.8
25°	5394.5	5430.1	5406.4	5465.6	5599.0	6197.4	7583.8	9636.7	11037.9	11103.1
27.5°	5945.6	5948.5	5892.2	5889.3	5910.0	6321.8	7651.9	9995.2	12024.4	12145.9
30°	7050.5	7006.1	6789.8	6555.8	6449.2	6695.0	7841.5	10418.8	13188.6	13404.9
32.5°	8753.9	8688.7	8291.8	7731.9	7169.0	7296.4	8182.2	10901.7	14456.5	14847.6
35°	10602.5	10584.7	10169.9	9337.5	8354.0	8152.5	8736.1	11535.6	15840.0	16462.1
37.5°	12320.7	12311.8	12074.8	11094.2	9897.4	9346.4	9624.9	12365.1	17321.2	18221.8
40°	13890.7	13917.4	13680.4	12803.5	11597.8	10878.0	10833.5	13390.1	18968.3	20138.4
42.5°	15247.5	15277.1	15037.2	14388.4	13277.5	12572.5	12317.7	14646.1	20576.9	22197.3
45°	16168.8	16352.5	16316.9	15798.5	15001.6	14269.9	14101.1	16222.1	22410.6	24380.6
47.5°	16429.5	16598.4	16865.0	16936.1	16450.2	15730.4	15931.8	18121.0	24265.1	26566.9
50°	15786.7	15943.7	16497.6	17235.3	17573.0	17350.8	17712.2	20156.2	26164.0	28747.2
52.5°	14518.8	14678.7	15377.9	16545.0	17922.6	18621.7	19498.6	22161.8	28003.6	30812.0
55°	12685.0	12853.9	13751.5	15072.7	17256.0	19146.0	20988.7	24164.4	29689.2	32669.4
57.5°	10190.7	10315.1	11248.3	13096.8	15579.3	18624.7	22087.7	26350.6	31277.1	34494.3
60°	6641.7	6751.3	7835.6	9897.4	12800.6	16882.8	22306.9	28788.7	33386.3	36867.2
62.5°	4416.9	4491.0	5133.9	6647.6	9014.6	13538.2	21024.2	30735.0	36479.1	40996.8
65°	3030.5	3104.6	3747.4	4802.1	5824.1	8955.4	17336.0	30477.2	39281.5	44276.1
67.5°	2162.6	2224.8	2769.9	3765.2	4215.5	5202.0	11751.9	27183.1	38878.6	44400.6
70°	1549.3	1584.9	2035.2	2932.8	3350.5	3125.3	6535.1	20790.2	34041.0	40999.7
72.5°	1084.2	1096.1	1413.1	2233.7	2698.8	2281.1	3110.5	13861.1	25746.3	32180.6
75°	734.7	749.5	950.9	1638.2	2165.5	1741.9	1647.1	7432.7	15114.2	17813.0
77.5°	450.3	456.2	613.2	1119.8	1620.4	1327.2	1060.5	3149.0	5847.8	5741.1
80°	254.8	254.8	391.0	696.2	1105.0	856.1	743.6	1339.0	1851.5	1626.4
82.5°	142.2	145.2	284.4	432.5	731.7	506.6	408.8	619.1	799.9	708.0
85°	59.2	65.2	174.8	204.4	349.6	251.8	165.9	260.7	296.2	263.7
87.5°	5.9	8.9	53.3	38.5	41.5	50.4	23.7	50.4	41.5	41.5
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°
6816.5	0°	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5	6816.5
6917.2	2.5°	6860.9	6816.5	6703.9	6573.6	6401.8	6318.8	6206.2	6129.2	6064.0	6070.0
7089.0	5°	6994.2	6881.7	6629.9	6315.9	5924.8	5646.3	5350.1	5145.7	4979.8	4944.3
7326.0	7.5°	7177.9	7000.2	6558.8	5993.0	5332.3	4831.7	4384.4	4097.0	3892.6	3827.4
7613.4	10°	7414.9	7157.2	6466.9	5587.1	4636.2	3999.3	3519.3	3294.2	3155.0	3107.6
7951.1	12.5°	7690.4	7337.9	6345.5	5092.4	3919.3	3306.0	3000.9	2888.3	2843.9	2829.1
8365.8	15°	8037.0	7563.0	6161.8	4505.8	3312.0	2882.4	2752.1	2737.3	2743.2	2737.3
8863.5	17.5°	8448.8	7808.9	5862.6	3901.5	2903.2	2666.2	2618.8	2630.6	2645.4	2642.5
9420.5	20°	8899.1	8051.8	5480.5	3365.3	2624.7	2512.1	2485.5	2497.3	2509.2	2503.2
10063.3	22.5°	9411.6	8312.5	5056.8	2947.6	2438.1	2369.9	2340.3	2343.3	2343.3	2331.4
10878.0	25°	10024.8	8599.9	4612.5	2651.4	2295.9	2242.5	2207.0	2195.1	2177.4	2141.8
11867.4	27.5°	10756.5	8905.0	4185.9	2444.0	2183.3	2132.9	2091.5	2061.8	2017.4	1958.2
13055.3	30°	11580.1	9275.3	3824.5	2313.6	2094.4	2044.1	1996.7	1952.2	1887.1	1813.0
14421.0	32.5°	12548.8	9672.3	3560.8	2227.7	2014.4	1961.1	1904.8	1851.5	1780.4	1706.3
15955.5	35°	13704.1	10152.2	3406.8	2168.5	1952.2	1881.1	1818.9	1759.7	1706.3	1641.2
17623.4	37.5°	14957.2	10661.7	3359.4	2138.9	1910.8	1801.1	1730.0	1688.6	1682.6	1644.1
19427.5	40°	16328.8	11266.0	3394.9	2121.1	1866.3	1724.1	1647.1	1638.2	1653.0	1584.9
21356.0	42.5°	17780.4	11982.9	3454.2	2100.3	1804.1	1647.1	1573.0	1573.0	1561.2	1466.4
23394.1	45°	19350.4	12809.5	3513.4	2050.0	1730.0	1570.1	1513.8	1493.1	1442.7	1350.9
25444.1	47.5°	20932.4	13650.8	3557.9	1958.2	1641.2	1504.9	1454.5	1407.1	1333.1	1250.1
27455.6	50°	22434.3	14406.2	3510.5	1821.9	1540.5	1442.7	1389.4	1324.2	1244.2	1187.9
29360.4	52.5°	23776.3	15060.9	3309.0	1661.9	1433.8	1377.5	1330.1	1262.0	1196.8	1137.6
31078.6	55°	24943.5	15591.2	2953.5	1510.8	1339.0	1321.2	1273.8	1187.9	1099.1	1048.7
32782.0	57.5°	26063.3	15994.0	2509.2	1386.4	1253.1	1259.0	1187.9	1110.9	1028.0	974.6
35077.9	60°	27553.4	16533.2	2058.9	1270.9	1161.3	1179.0	1102.0	1045.7	942.0	873.9
39014.9	62.5°	29935.1	17371.6	1635.2	1128.7	1054.6	1060.5	1028.0	959.8	835.4	755.4
41932.9	65°	31825.1	17063.5	1288.6	974.6	933.2	942.0	942.0	868.0	734.7	642.8
42089.9	67.5°	31611.9	14610.6	1028.0	823.5	817.6	823.5	844.3	782.1	651.7	577.7
38884.6	70°	29120.5	11621.5	823.5	684.3	711.0	696.2	755.4	713.9	586.6	512.5
30145.5	72.5°	23761.5	8371.8	628.0	565.8	545.1	568.8	681.4	642.8	488.8	405.8
15967.4	75°	13884.8	4467.3	468.1	447.3	394.0	474.0	604.3	548.0	373.3	299.2
4893.9	77.5°	4520.6	1558.2	343.6	328.8	293.3	382.2	515.5	462.1	305.1	237.0
1433.8	80°	1211.6	471.0	234.0	216.3	189.6	284.4	408.8	367.3	219.2	154.0
616.2	82.5°	485.8	198.5	136.3	121.5	103.7	195.5	322.9	296.2	162.9	97.8
192.6	85°	157.0	65.2	50.4	38.5	47.4	121.5	192.6	201.4	115.5	50.4
29.6	87.5°	20.7	8.9	8.9	11.8	8.9	20.7	59.2	56.3	32.6	5.9
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>
6816.5
6010.7
4864.3
3762.3
3072.0
2820.2
2734.3
2636.5
2500.3
2325.5
2135.9
1952.2
1807.1
1709.3
1635.2
1641.2
1587.9
1466.4
1347.9
1247.2
1179.0
1131.6
1042.8
968.7
865.0
749.5
634.0
565.8
503.6
397.0
290.3
228.1
151.1
97.8
38.5
0.0
0.0

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