

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: P947566

Luminaire Tested: **GALN-SB2D-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19348 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

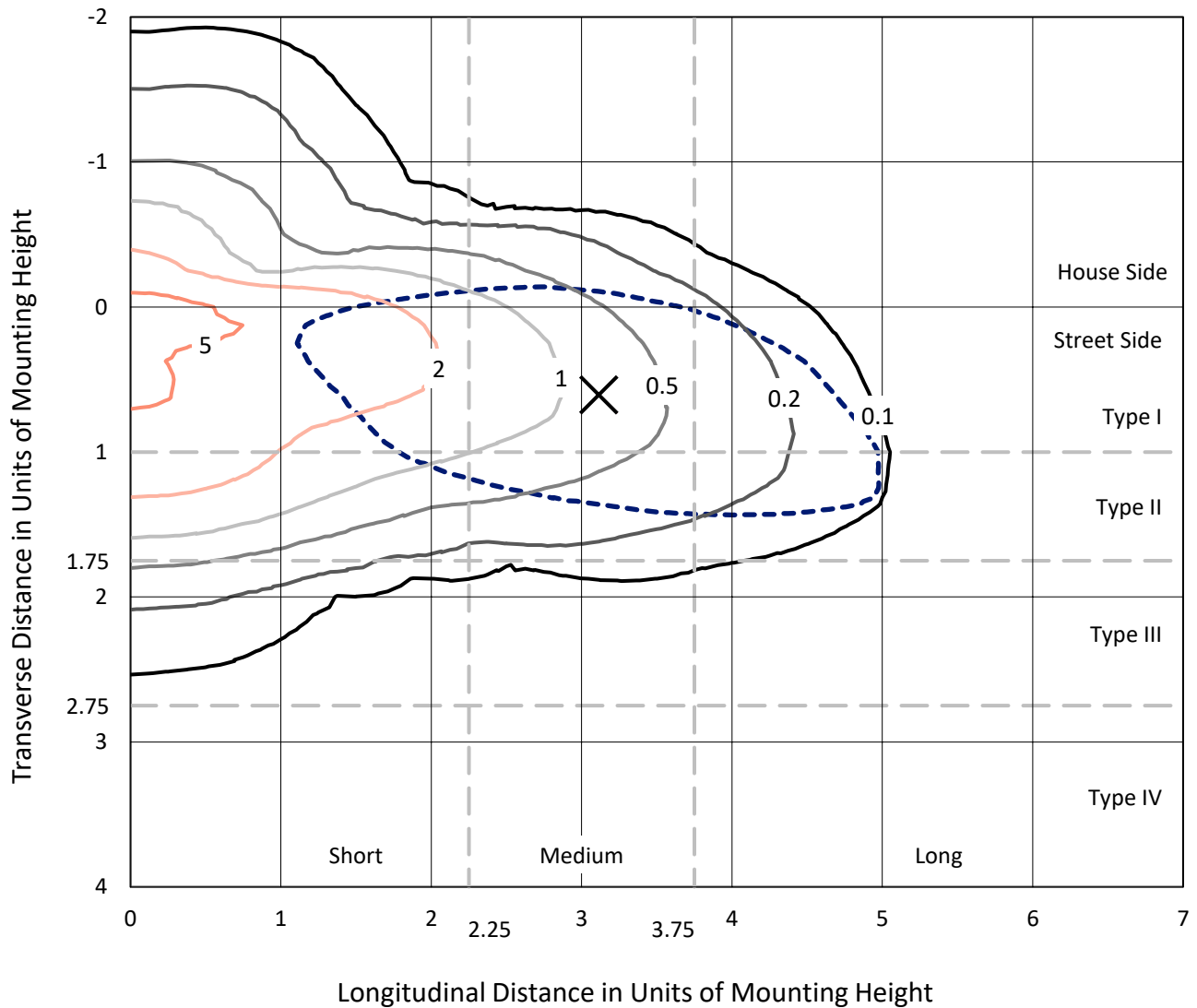
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

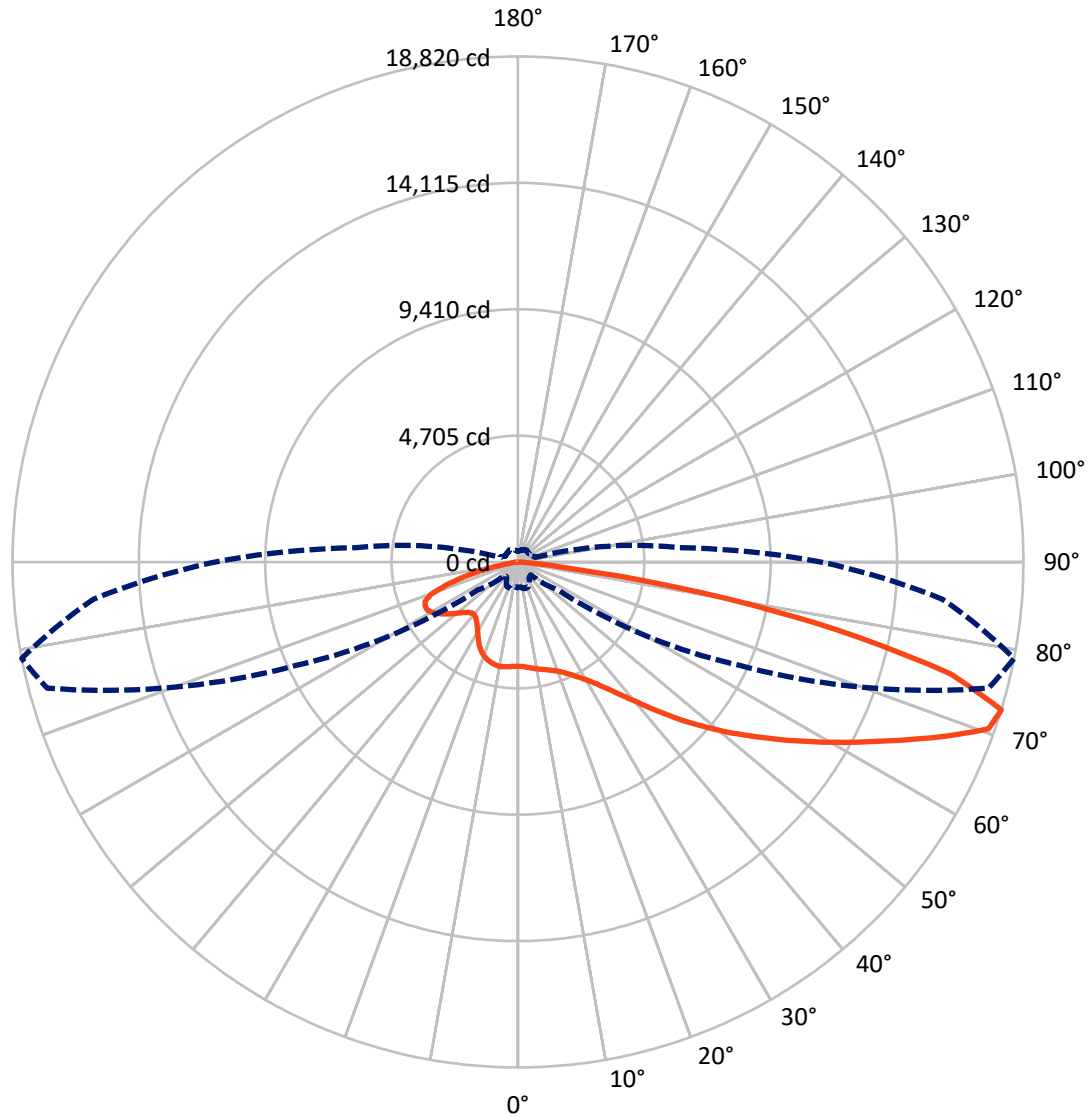
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4257.6	0.0	4257.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	15090.4	0.0	15090.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	19348.0	0.0	19348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.5	1.8
10°-20°	921.7	4.8
20°-30°	1487.3	7.7
30°-40°	2232.2	11.5
40°-50°	3166.6	16.4
50°-60°	3998.9	20.7
60°-70°	4061.5	21.0
70°-80°	2768.1	14.3
80°-90°	359.1	1.9
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°	19348.0	100.0
0°-180°	19348.0	100.0

Coefficient of Utilization



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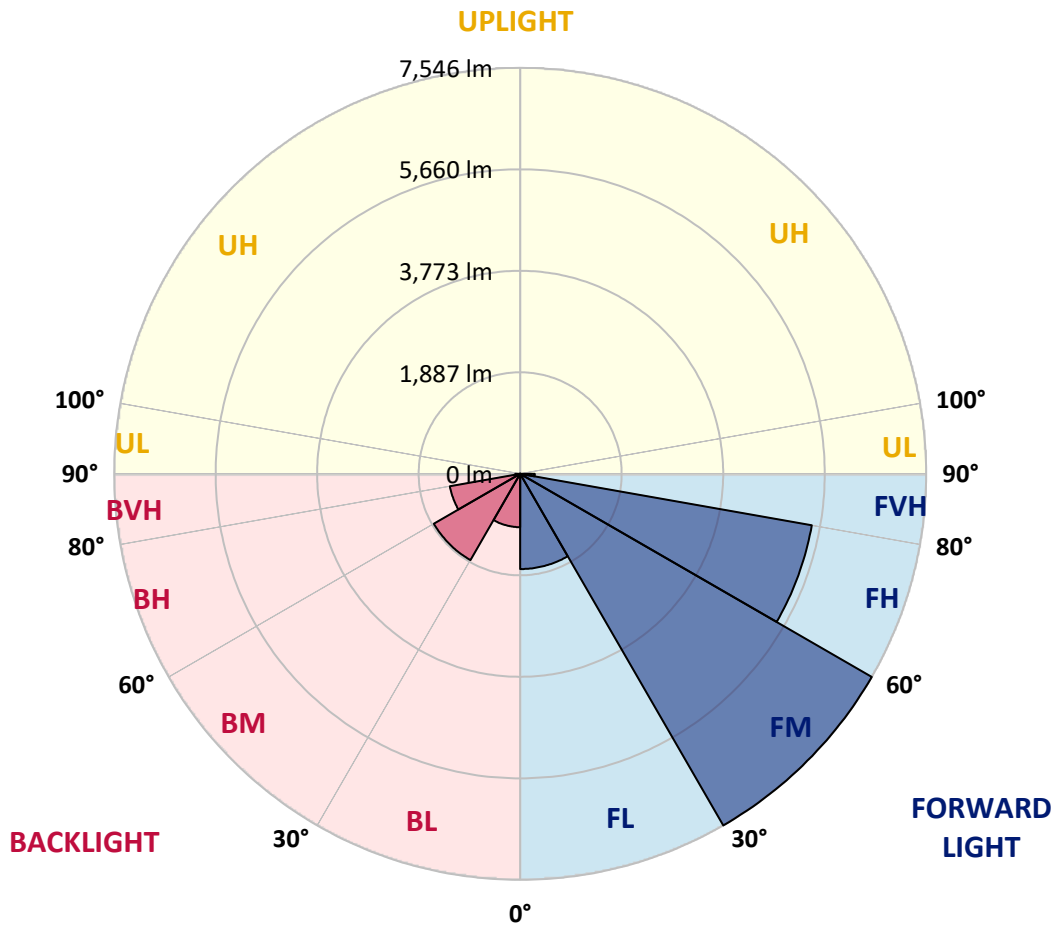
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1769.9	9.1			
FM (30°-60°)	7546.1	39.0			
FH (60°-80°)	5503.8	28.4			G3/7500
FVH (80°-90°)	270.5	1.4			G3/500
BL (0°-30°)	991.7	5.1	B2/1000		
BM (30°-60°)	1851.6	9.6	B2/2500		
BH (60°-80°)	1325.7	6.9	B3/2500		G3/2500
BVH (80°-90°)	88.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9
2.5°	3886.0	3867.6	3878.8	3874.7	3879.8	3886.0	3888.0	3891.1	3901.3	3900.3
5°	3877.8	3859.4	3874.7	3869.6	3882.9	3897.2	3909.5	3920.8	3937.1	3944.3
7.5°	3860.4	3848.1	3863.5	3878.8	3903.4	3924.9	3942.3	3967.8	3991.4	3995.5
10°	3759.1	3749.9	3785.7	3825.6	3893.1	3951.5	3989.3	4019.0	4044.6	4048.7
12.5°	3653.7	3642.4	3682.3	3736.6	3846.1	3951.5	4031.3	4070.2	4092.7	4106.0
15°	3636.3	3627.0	3649.6	3696.6	3787.7	3923.8	4060.0	4131.6	4151.0	4166.4
17.5°	3720.2	3702.8	3712.0	3728.4	3781.6	3898.3	4082.5	4201.2	4230.9	4247.2
20°	3914.6	3890.1	3875.7	3843.0	3833.8	3902.3	4080.4	4285.1	4324.0	4344.5
22.5°	4173.6	4157.2	4126.5	4043.6	3953.5	3952.5	4119.3	4392.6	4465.2	4484.7
25°	4486.7	4462.2	4423.3	4310.7	4137.7	4051.8	4184.8	4529.7	4651.5	4656.6
27.5°	4847.0	4810.1	4756.9	4608.5	4375.2	4207.3	4285.1	4687.3	4865.4	4863.4
30°	5226.7	5189.8	5133.5	4953.4	4659.7	4417.1	4424.3	4857.2	5119.2	5108.0
32.5°	5504.0	5476.4	5465.1	5325.9	4987.2	4664.8	4584.0	5045.5	5432.4	5422.1
35°	5716.9	5681.1	5694.4	5623.8	5344.4	4942.2	4779.4	5269.7	5813.1	5812.1
37.5°	5927.7	5896.0	5907.3	5860.2	5674.9	5294.2	5017.9	5543.9	6284.9	6307.4
40°	6120.1	6086.4	6131.4	6087.4	5931.8	5668.8	5289.1	5854.0	6831.4	6874.4
42.5°	6235.8	6209.2	6283.9	6284.9	6154.9	5985.0	5586.9	6195.9	7463.9	7560.1
45°	6275.7	6266.5	6379.1	6402.6	6352.4	6168.2	5855.1	6568.4	8145.5	8317.4
47.5°	6232.7	6215.3	6370.9	6457.9	6497.8	6254.2	6077.1	6971.6	8841.4	9093.2
50°	6015.7	5982.0	6213.3	6396.5	6538.7	6310.5	6301.3	7437.3	9632.5	9907.9
52.5°	5625.8	5600.2	5863.2	6181.5	6448.6	6338.1	6553.0	7945.9	10383.7	10739.9
55°	5127.4	5093.6	5383.3	5798.8	6224.5	6328.9	6804.8	8515.0	11270.0	11631.3
57.5°	4337.3	4269.8	4636.2	5127.4	5859.2	6317.6	7066.8	9080.9	12170.7	12603.6
60°	3184.9	3084.6	3533.9	4116.2	5144.8	6208.1	7391.2	9715.4	13251.4	13641.3
62.5°	1854.5	1796.1	2089.8	2633.3	3877.8	5563.4	7573.4	10453.3	14313.7	14723.1
65°	1440.0	1423.6	1449.2	1491.1	2158.4	4165.4	7011.5	11172.8	15664.7	15951.2
67.5°	1317.2	1304.9	1316.1	1237.3	1095.1	2320.1	5547.0	11355.0	17111.8	17285.8
70°	1170.8	1156.5	1193.3	1125.8	861.7	1055.2	3584.1	10693.8	18263.2	18589.6
72.5°	953.8	937.5	1023.4	992.7	725.6	677.5	1800.2	9122.9	18142.4	18819.9
75°	732.8	723.6	825.9	851.5	591.5	533.2	863.8	6781.3	15965.5	16648.2
77.5°	569.0	561.9	614.1	707.2	476.9	413.5	531.2	4301.5	12031.5	12151.2
80°	426.8	406.3	454.4	547.5	371.5	301.9	360.2	2508.4	7605.1	6893.8
82.5°	267.1	256.9	296.8	365.4	262.0	207.8	234.4	1385.7	3047.8	1795.1
85°	152.5	148.4	161.7	208.8	142.3	119.7	134.1	612.0	556.7	382.8
87.5°	61.4	59.4	73.7	93.1	52.2	44.0	47.1	147.4	122.8	113.6
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°
3883.9	0°	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9	3883.9
3899.3	2.5°	3895.2	3895.2	3880.9	3858.3	3832.8	3816.4	3789.8	3782.6	3755.0	3746.8
3934.1	5°	3942.3	3934.1	3890.1	3826.6	3739.6	3659.8	3571.8	3516.5	3438.7	3411.1
4002.6	7.5°	4001.6	3979.1	3903.4	3764.2	3582.0	3402.9	3216.6	3075.4	2940.3	2892.2
4058.9	10°	4055.9	4024.1	3895.2	3651.6	3336.4	3026.3	2729.5	2521.7	2364.1	2299.7
4121.4	12.5°	4110.1	4051.8	3840.9	3464.3	2987.4	2566.8	2250.5	2088.8	1991.6	1913.8
4172.5	15°	4161.3	4079.4	3757.0	3213.6	2604.6	2177.9	1944.5	1815.6	1737.8	1686.6
4247.2	17.5°	4220.6	4102.9	3631.1	2895.3	2240.3	1908.7	1718.3	1640.6	1625.2	1619.1
4349.6	20°	4303.5	4124.4	3465.3	2539.1	1972.2	1693.8	1595.5	1588.4	1587.3	1584.3
4472.4	22.5°	4392.6	4150.0	3246.3	2215.7	1743.9	1559.7	1542.3	1528.0	1518.8	1517.8
4620.8	25°	4498.0	4158.2	2972.0	1950.7	1549.5	1496.3	1475.8	1454.3	1448.2	1448.2
4789.7	27.5°	4600.3	4130.6	2652.7	1720.4	1440.0	1437.9	1411.3	1404.1	1403.1	1406.2
4982.1	30°	4702.7	4078.4	2335.5	1507.5	1376.5	1376.5	1367.3	1372.4	1376.5	1386.8
5246.1	32.5°	4840.8	4023.1	2070.4	1349.9	1321.3	1311.0	1320.2	1330.5	1334.6	1347.9
5593.1	35°	5043.5	3984.2	1859.6	1263.9	1263.9	1250.6	1255.8	1253.7	1244.5	1238.4
6012.7	37.5°	5311.6	3982.2	1685.6	1224.0	1215.8	1213.8	1214.8	1201.5	1165.7	1122.7
6520.3	40°	5634.0	4037.4	1551.5	1196.4	1190.3	1202.5	1196.4	1160.6	1062.3	987.6
7144.6	42.5°	6066.9	4195.1	1465.6	1162.6	1181.0	1196.4	1171.8	1048.0	981.5	931.3
7855.9	45°	6576.6	4450.9	1421.5	1126.8	1163.6	1182.1	1063.3	1009.1	955.9	895.5
8631.6	47.5°	7153.8	4773.3	1411.3	1093.0	1124.8	1136.0	1017.3	992.7	932.3	866.8
9411.5	50°	7782.2	5155.0	1438.9	1053.1	1068.5	1029.6	1001.9	979.4	917.0	852.5
10210.8	52.5°	8432.1	5575.7	1494.2	998.9	1012.2	969.2	995.8	976.4	907.8	820.8
11036.7	55°	9070.7	5999.4	1547.4	935.4	954.9	914.9	978.4	964.1	865.8	767.6
11917.9	57.5°	9719.5	6421.0	1599.6	879.1	899.6	862.8	950.8	931.3	818.7	718.4
12879.9	60°	10394.0	6830.4	1624.2	824.9	839.2	814.7	908.8	875.0	765.5	668.3
13825.6	62.5°	11025.4	7171.2	1584.3	770.6	779.9	769.6	853.5	808.5	712.3	612.0
14811.1	65°	11658.9	7373.8	1461.5	717.4	719.5	714.4	775.8	736.9	649.9	562.9
15673.9	67.5°	12233.1	7487.4	1266.0	660.1	655.0	653.0	703.1	659.1	589.5	513.8
16329.9	70°	12354.9	7198.8	967.1	592.6	592.6	587.5	623.3	578.2	523.0	461.6
15860.1	72.5°	11284.4	6055.7	686.7	515.8	524.0	513.8	543.4	505.6	455.4	414.5
13669.0	75°	9099.3	4440.7	499.4	437.0	451.3	433.9	461.6	435.0	392.0	391.0
9419.7	77.5°	6252.2	2745.9	362.3	360.2	370.5	348.0	379.7	365.4	326.5	309.1
4099.9	80°	2668.1	1095.1	264.0	278.4	278.4	257.9	294.7	298.8	265.1	256.9
791.1	82.5°	531.2	311.1	185.2	191.4	180.1	174.0	208.8	231.3	319.3	355.1
238.5	85°	159.7	114.6	111.6	104.4	92.1	93.1	122.8	232.3	286.6	163.7
78.8	87.5°	44.0	28.7	29.7	23.5	19.4	25.6	42.0	176.0	96.2	40.9
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>
3883.9
3760.1
3431.6
2898.4
2314.0
1939.4
1695.8
1623.2
1594.5
1529.0
1454.3
1414.4
1393.9
1359.1
1252.7
1123.7
985.6
929.3
891.4
861.7
845.4
814.7
762.5
716.4
665.2
611.0
556.7
507.6
459.5
402.2
352.1
289.6
256.9
356.2
141.2
34.8
0.0

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