

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: P949624

Luminaire Tested: **GALN-SB4B-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949624
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-SB4B-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19506 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

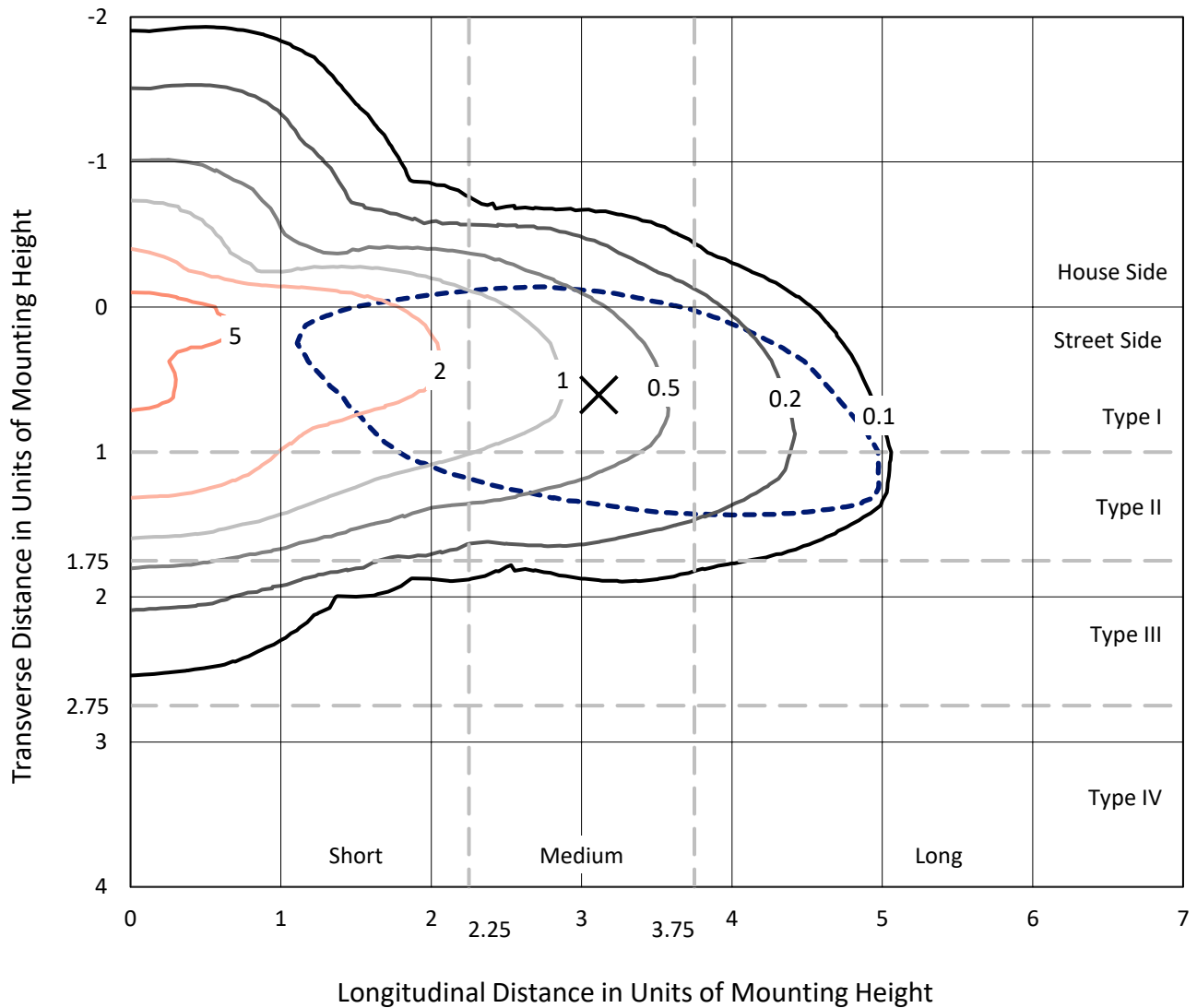
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

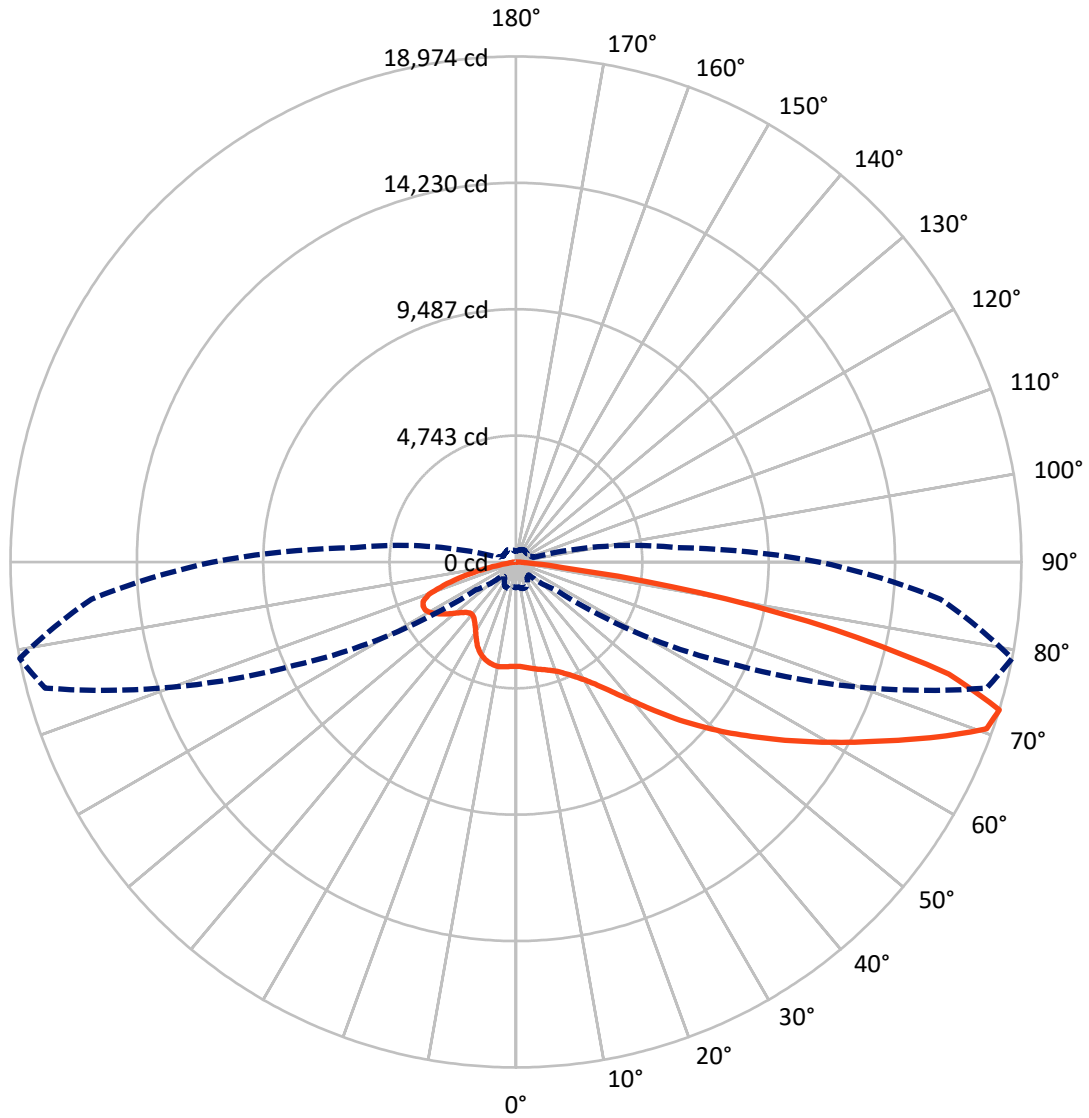
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	4292.4	0.0	4292.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	15213.6	0.0	15213.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	19506.0	0.0	19506.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.4	1.8
10°-20°	929.3	4.8
20°-30°	1499.5	7.7
30°-40°	2250.5	11.5
40°-50°	3192.4	16.4
50°-60°	4031.6	20.7
60°-70°	4094.6	21.0
70°-80°	2790.7	14.3
80°-90°	362.1	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°	19506.0	100.0
0°-180°	19506.0	100.0



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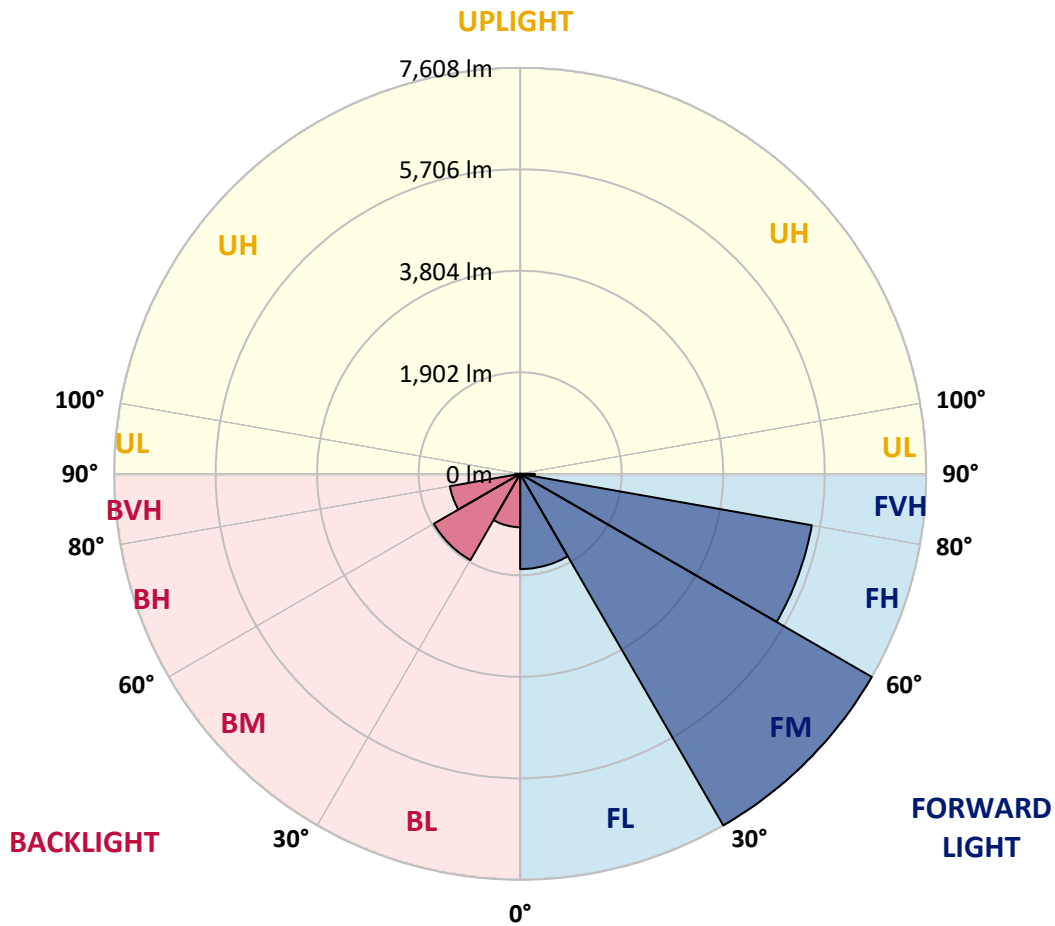
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1784.3	9.1			
FM (30°-60°)	7607.7	39.0			
FH (60°-80°)	5548.8	28.4			G3/7500
FVH (80°-90°)	272.7	1.4			G3/500
BL (0°-30°)	999.8	5.1	B2/1000		
BM (30°-60°)	1866.7	9.6	B2/2500		
BH (60°-80°)	1336.5	6.9	B3/2500		G3/2500
BVH (80°-90°)	89.3	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°	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6
2.5°	3917.7	3899.1	3910.5	3906.4	3911.5	3917.7	3919.8	3922.9	3933.2	3932.2
5°	3909.5	3890.9	3906.4	3901.2	3914.6	3929.1	3941.4	3952.8	3969.3	3976.5
7.5°	3891.9	3879.5	3895.0	3910.5	3935.2	3956.9	3974.5	4000.3	4024.0	4028.1
10°	3789.8	3780.5	3816.6	3856.8	3924.9	3983.7	4021.9	4051.8	4077.6	4081.8
12.5°	3683.5	3672.1	3712.4	3767.1	3877.5	3983.7	4064.2	4103.4	4126.1	4139.5
15°	3666.0	3656.7	3679.4	3726.8	3818.7	3955.9	4093.1	4165.3	4184.9	4200.4
17.5°	3750.6	3733.0	3742.3	3758.8	3812.5	3930.1	4115.8	4235.5	4265.4	4281.9
20°	3946.6	3921.8	3907.4	3874.4	3865.1	3934.2	4113.7	4320.1	4359.3	4379.9
22.5°	4207.6	4191.1	4160.2	4076.6	3985.8	3984.8	4153.0	4428.4	4501.7	4521.3
25°	4523.4	4498.6	4459.4	4345.9	4171.5	4084.9	4219.0	4566.7	4689.5	4694.6
27.5°	4886.6	4849.4	4795.8	4646.2	4410.9	4241.7	4320.1	4725.6	4905.1	4903.1
30°	5269.4	5232.2	5175.5	4993.9	4697.7	4453.2	4460.4	4896.9	5161.0	5149.7
32.5°	5549.0	5521.1	5509.8	5369.4	5027.9	4702.9	4621.4	5086.7	5476.7	5466.4
35°	5763.6	5727.5	5740.9	5669.7	5388.0	4982.5	4818.5	5312.7	5860.6	5859.5
37.5°	5976.1	5944.1	5955.5	5908.0	5721.3	5337.5	5058.9	5589.2	6336.2	6358.9
40°	6170.1	6136.1	6181.5	6137.1	5980.3	5715.1	5332.3	5901.8	6887.2	6930.5
42.5°	6286.7	6259.9	6335.2	6336.2	6205.2	6033.9	5632.5	6246.5	7524.8	7621.8
45°	6326.9	6317.7	6431.1	6454.9	6404.3	6218.6	5902.9	6622.0	8212.0	8385.4
47.5°	6283.6	6266.1	6422.9	6510.6	6550.8	6305.3	6126.8	7028.6	8913.6	9167.5
50°	6064.9	6030.8	6264.0	6448.7	6592.1	6362.0	6352.7	7498.0	9711.2	9988.8
52.5°	5671.8	5646.0	5911.1	6232.0	6501.3	6389.9	6606.6	8010.8	10468.5	10827.6
55°	5169.3	5135.2	5427.2	5846.1	6275.3	6380.6	6860.4	8584.5	11362.1	11726.3
57.5°	4372.7	4304.6	4674.0	5169.3	5907.0	6369.2	7124.5	9155.1	12270.0	12706.5
60°	3210.9	3109.8	3562.8	4149.9	5186.8	6258.8	7451.6	9794.8	13359.6	13752.7
62.5°	1869.6	1810.8	2106.9	2654.8	3909.5	5608.8	7635.2	10538.7	14430.6	14843.3
65°	1451.7	1435.2	1461.0	1503.3	2176.0	4199.4	7068.8	11264.1	15792.6	16081.5
67.5°	1327.9	1315.5	1326.9	1247.4	1104.0	2339.1	5592.3	11447.7	17251.5	17426.9
70°	1180.4	1165.9	1203.1	1135.0	868.8	1063.8	3613.3	10781.2	18412.3	18741.4
72.5°	961.6	945.1	1031.8	1000.8	731.5	683.0	1814.9	9197.4	18290.5	18973.6
75°	738.8	729.5	832.7	858.4	596.4	537.6	870.8	6836.6	16095.9	16784.1
77.5°	573.7	566.5	619.1	713.0	480.8	416.8	535.5	4336.6	12129.7	12250.4
80°	430.3	409.6	458.1	552.0	374.5	304.4	363.2	2528.9	7667.2	6950.1
82.5°	269.3	259.0	299.2	368.3	264.1	209.5	236.3	1397.0	3072.7	1809.8
85°	153.7	149.6	163.0	210.5	143.4	120.7	135.2	617.0	561.3	385.9
87.5°	61.9	59.8	74.3	93.9	52.6	44.4	47.5	148.6	123.8	114.5
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°
3915.6	0°	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6
3931.1	2.5°	3927.0	3927.0	3912.5	3889.8	3864.1	3847.5	3820.7	3813.5	3785.6	3777.4
3966.2	5°	3974.5	3966.2	3921.8	3857.9	3770.2	3689.7	3600.9	3545.2	3466.8	3439.0
4035.3	7.5°	4034.3	4011.6	3935.2	3794.9	3611.3	3430.7	3242.9	3100.5	2964.3	2915.8
4092.1	10°	4089.0	4057.0	3927.0	3681.4	3363.6	3051.0	2751.8	2542.3	2383.4	2318.4
4155.0	12.5°	4143.7	4084.9	3872.3	3492.6	3011.8	2587.7	2268.9	2105.9	2007.9	1929.4
4206.6	15°	4195.3	4112.7	3787.7	3239.8	2625.9	2195.6	1960.4	1830.4	1752.0	1700.4
4281.9	17.5°	4255.1	4136.4	3660.8	2918.9	2258.6	1924.3	1732.4	1654.0	1638.5	1632.3
4385.1	20°	4338.7	4158.1	3493.6	2559.9	1988.3	1707.6	1608.6	1601.3	1600.3	1597.2
4508.9	22.5°	4428.4	4183.9	3272.8	2233.8	1758.2	1572.4	1554.9	1540.5	1531.2	1530.1
4658.5	25°	4534.7	4192.2	2996.3	1966.6	1562.1	1508.5	1487.8	1466.2	1460.0	1460.0
4828.8	27.5°	4637.9	4164.3	2674.4	1734.4	1451.7	1449.7	1422.8	1415.6	1414.6	1417.7
5022.8	30°	4741.1	4111.7	2354.5	1519.8	1387.8	1387.8	1378.5	1383.6	1387.8	1398.1
5289.0	32.5°	4880.4	4056.0	2087.3	1360.9	1332.0	1321.7	1331.0	1341.3	1345.5	1358.9
5638.7	35°	5084.7	4016.8	1874.8	1274.3	1274.3	1260.8	1266.0	1263.9	1254.7	1248.5
6061.8	37.5°	5355.0	4014.7	1699.4	1234.0	1225.8	1223.7	1224.7	1211.3	1175.2	1131.9
6573.5	40°	5680.0	4070.4	1564.2	1206.2	1200.0	1212.4	1206.2	1170.1	1071.0	995.7
7202.9	42.5°	6116.5	4229.3	1477.5	1172.1	1190.7	1206.2	1181.4	1056.6	989.5	938.9
7920.0	45°	6630.3	4487.3	1433.2	1136.0	1173.1	1191.7	1072.0	1017.3	963.7	902.8
8702.1	47.5°	7212.2	4812.3	1422.8	1102.0	1133.9	1145.3	1025.6	1000.8	940.0	873.9
9488.3	50°	7845.7	5197.1	1450.7	1061.7	1077.2	1038.0	1010.1	987.4	924.5	859.5
10294.2	52.5°	8500.9	5621.2	1506.4	1007.0	1020.4	977.1	1003.9	984.3	915.2	827.5
11126.8	55°	9144.8	6048.4	1560.1	943.1	962.7	922.4	986.4	971.9	872.9	773.8
12015.2	57.5°	9798.9	6473.5	1612.7	886.3	906.9	869.8	958.5	938.9	825.4	724.3
12985.1	60°	10478.9	6886.2	1637.5	831.6	846.1	821.3	916.2	882.2	771.8	673.8
13938.5	62.5°	11115.5	7229.8	1597.2	776.9	786.2	775.9	860.5	815.1	718.1	617.0
14932.1	65°	11754.2	7434.0	1473.4	723.3	725.3	720.2	782.1	742.9	655.2	567.5
15801.9	67.5°	12333.0	7548.6	1276.3	665.5	660.3	658.3	708.8	664.5	594.3	518.0
16463.2	70°	12455.8	7257.6	975.0	597.4	597.4	592.2	628.4	583.0	527.2	465.3
15989.7	72.5°	11376.5	6105.1	692.3	520.0	528.3	518.0	547.9	509.7	459.1	417.9
13780.6	75°	9173.6	4476.9	503.5	440.6	455.0	437.5	465.3	438.5	395.2	394.1
9496.6	77.5°	6303.2	2768.3	365.3	363.2	373.5	350.8	382.8	368.3	329.1	311.6
4133.4	80°	2689.9	1104.0	266.2	280.6	280.6	260.0	297.2	301.3	267.2	259.0
797.6	82.5°	535.5	313.7	186.8	192.9	181.6	175.4	210.5	233.2	321.9	358.0
240.4	85°	161.0	115.6	112.5	105.2	92.9	93.9	123.8	234.2	288.9	165.1
79.4	87.5°	44.4	28.9	29.9	23.7	19.6	25.8	42.3	177.5	97.0	41.3
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>
3915.6
3790.8
3459.6
2922.0
2332.9
1955.2
1709.7
1636.4
1607.5
1541.5
1466.2
1425.9
1405.3
1370.2
1262.9
1132.9
993.6
936.9
898.7
868.8
852.3
821.3
768.7
722.3
670.7
616.0
561.3
511.8
463.3
405.5
354.9
292.0
259.0
359.1
142.4
35.1
0.0

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