

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: P951096

Luminaire Tested: **GALN-SB5B-835-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-835-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25786 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

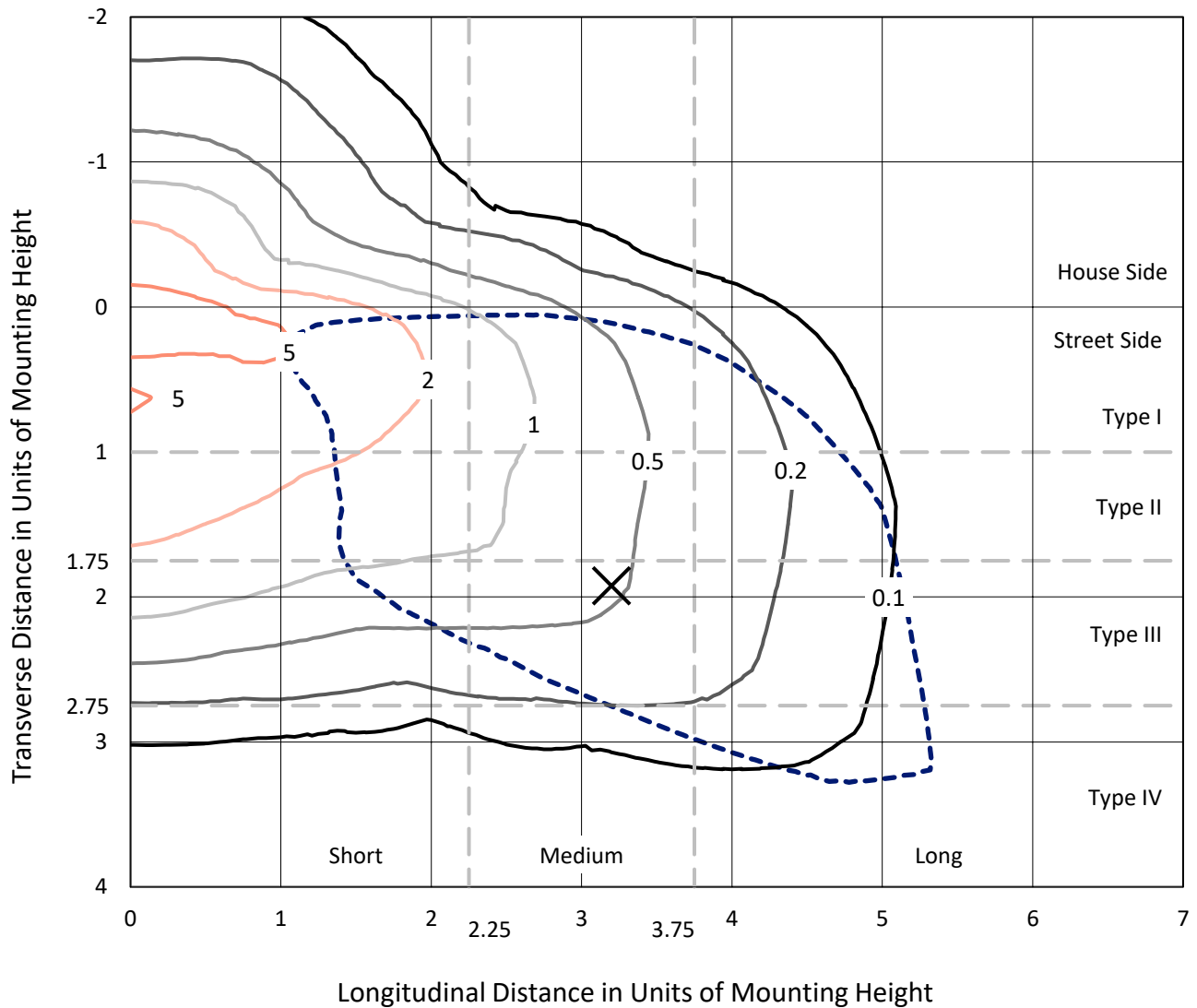
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

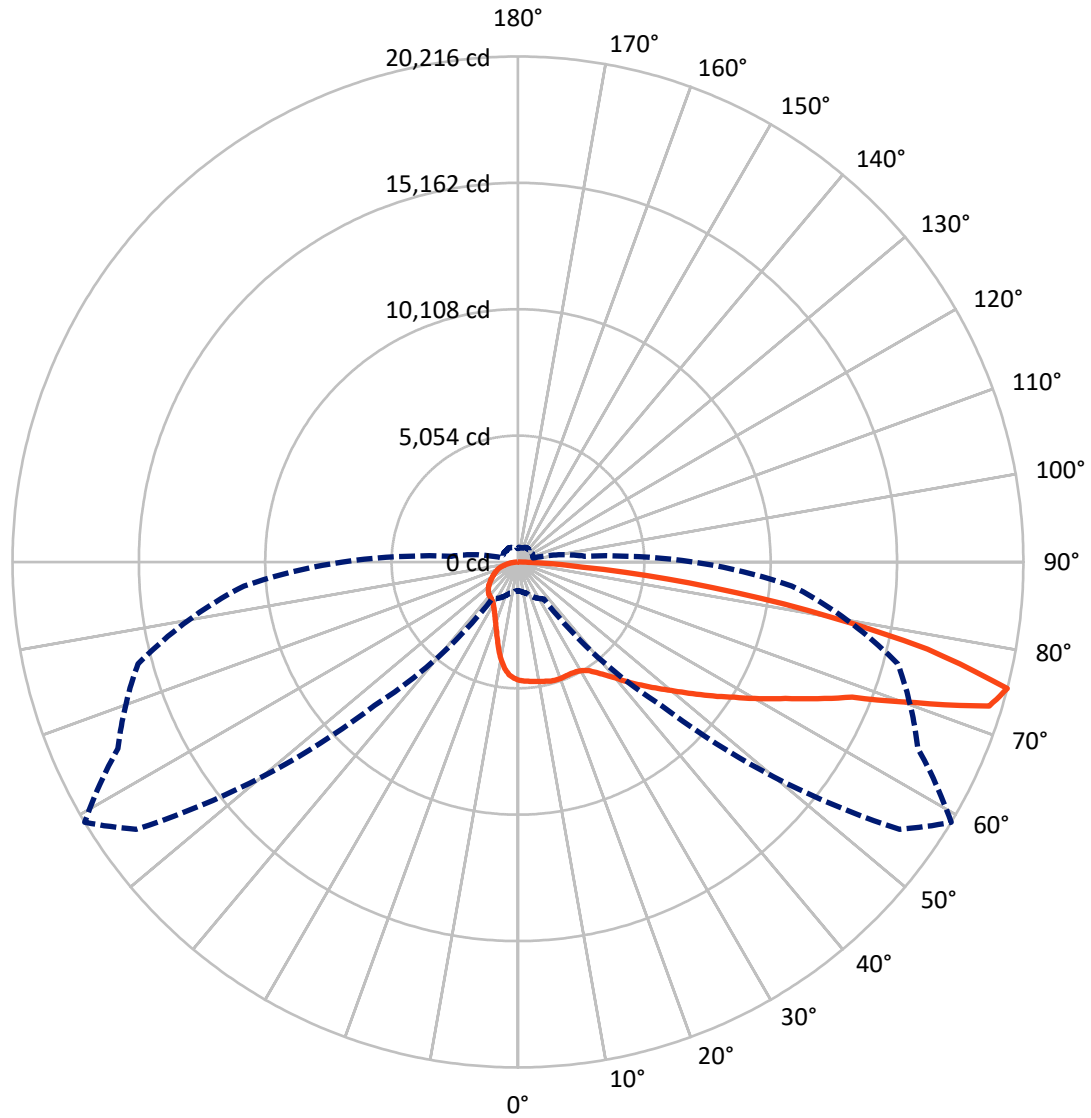
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4836.3	0.0	4836.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20949.7	0.0	20949.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	25786.0	0.0	25786.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.4	1.6
10°-20°	1084.8	4.2
20°-30°	1647.7	6.4
30°-40°	2449.2	9.5
40°-50°	3642.4	14.1
50°-60°	4944.1	19.2
60°-70°	6036.0	23.4
70°-80°	4736.9	18.4
80°-90°	820.6	3.2
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°	25786.0	100.0
0°-180°	25786.0	100.0



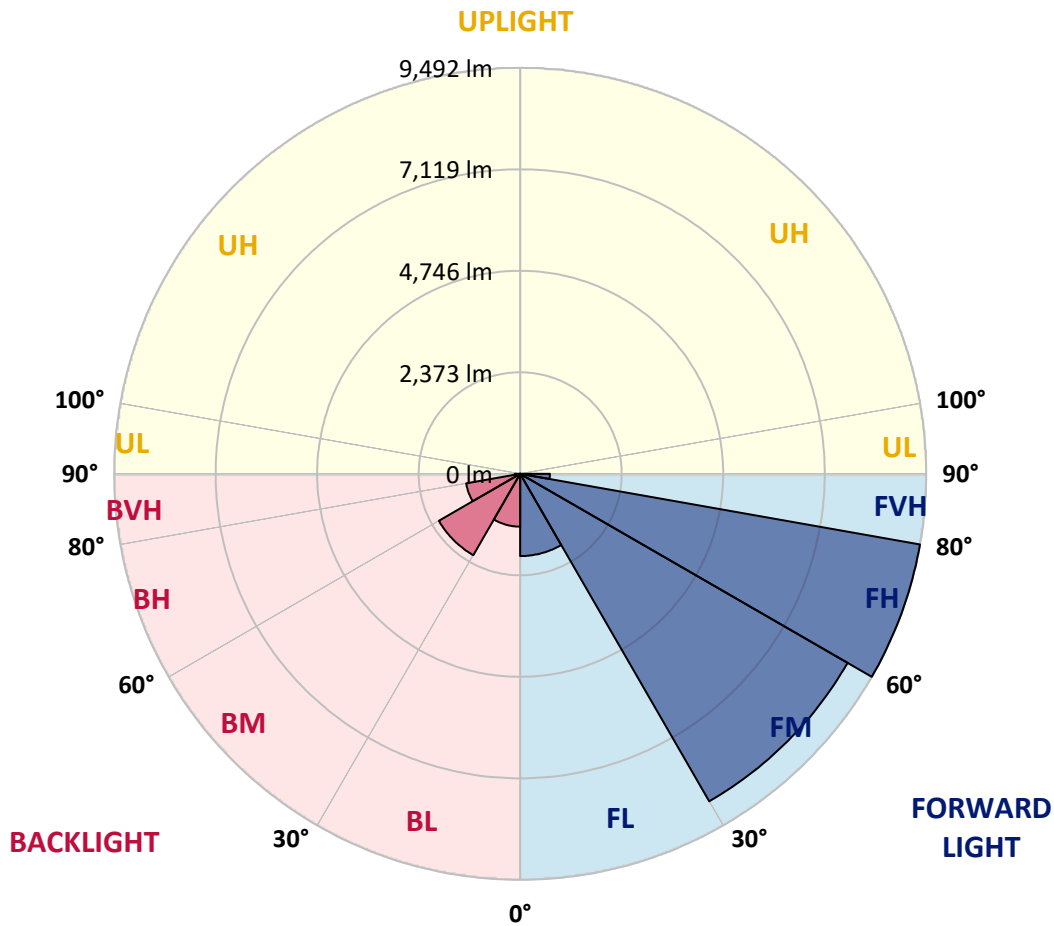
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1922.6	7.5			
FM (30°-60°)	8840.5	34.3			
FH (60°-80°)	9491.6	36.8			G4/12000
FVH (80°-90°)	694.9	2.7			G4/750
BL (0°-30°)	1234.2	4.8	B3/2500		
BM (30°-60°)	2195.2	8.5	B2/2500		
BH (60°-80°)	1281.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	125.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4733.0	4733.0	4733.0	4733.0	4733.0	4733.0	4733.0	4733.0	4733.0	4733.0
2.5°	4773.2	4756.5	4773.2	4766.3	4763.5	4757.9	4759.3	4769.0	4763.5	4770.4
5°	4741.3	4731.6	4748.2	4744.1	4762.1	4764.9	4782.9	4794.0	4800.9	4802.3
7.5°	4688.6	4678.9	4702.4	4721.9	4760.7	4771.8	4809.3	4827.3	4837.0	4853.6
10°	4495.8	4491.6	4549.9	4623.4	4714.9	4771.8	4828.7	4859.2	4874.5	4918.8
12.5°	4154.5	4160.1	4236.4	4377.9	4561.0	4744.1	4850.9	4895.3	4918.8	4974.3
15°	3828.5	3827.2	3910.4	4061.6	4318.2	4622.0	4862.0	4938.3	4978.5	5060.3
17.5°	3639.9	3634.3	3692.6	3807.7	4046.3	4434.7	4834.2	4961.8	5047.8	5150.5
20°	3605.2	3594.1	3624.6	3681.5	3850.7	4229.4	4762.1	4961.8	5103.3	5236.5
22.5°	3731.4	3713.4	3700.9	3694.0	3768.9	4060.2	4680.3	4945.2	5185.2	5360.0
25°	3985.3	3957.5	3893.7	3831.3	3809.1	3983.9	4608.1	4941.0	5307.2	5526.4
27.5°	4395.9	4361.2	4232.2	4082.4	3947.8	4022.7	4576.2	4966.0	5441.8	5702.6
30°	4905.0	4867.5	4705.2	4475.0	4233.6	4167.0	4616.4	5039.5	5613.8	5937.0
32.5°	5361.3	5319.7	5181.0	4946.6	4620.6	4416.7	4744.1	5179.6	5884.3	6263.0
35°	5766.4	5717.8	5593.0	5376.6	5095.0	4767.6	4974.3	5427.9	6268.5	6792.9
37.5°	6163.1	6106.2	5970.3	5741.4	5544.4	5235.1	5292.0	5747.0	6779.0	7436.5
40°	6607.0	6525.2	6360.1	6134.0	5942.6	5783.0	5709.5	6138.1	7297.8	8155.1
42.5°	7037.0	6959.3	6762.4	6569.6	6329.6	6283.8	6193.6	6595.9	7865.2	8944.4
45°	7500.3	7407.4	7168.8	6924.7	6773.5	6616.7	6662.5	7053.7	8421.4	9748.9
47.5°	7934.5	7830.5	7548.9	7277.0	7193.8	6896.9	7092.5	7557.2	8999.8	10564.6
50°	8168.9	8066.3	7831.9	7586.3	7521.1	7242.3	7558.6	8110.7	9606.0	11377.4
52.5°	8364.5	8253.6	7947.0	7811.1	7791.6	7618.2	8132.9	8743.2	10212.2	12096.0
55°	8572.6	8449.1	8058.0	7935.9	8024.7	8039.9	8814.0	9460.4	10853.1	12796.5
57.5°	8812.6	8655.8	8164.8	8041.3	8252.2	8533.8	9596.3	10203.9	11482.8	13445.7
60°	9038.7	8880.5	8370.1	8209.2	8497.7	9106.7	10493.8	11104.2	12195.8	14024.1
62.5°	9083.1	8952.7	8533.8	8532.4	8830.6	9775.3	11556.4	12012.7	12818.7	14595.6
65°	8314.6	8232.7	7984.4	8519.9	9307.8	10737.9	12739.6	13175.2	13610.7	15095.0
67.5°	6328.2	6339.3	6321.3	7354.7	8922.2	12120.9	14452.7	14419.4	14588.7	15655.4
70°	2893.6	2958.8	3383.3	5077.0	7148.0	12280.5	17285.3	16853.9	15816.3	16380.9
72.5°	1563.3	1613.3	1786.7	2459.4	4297.4	10918.3	19402.1	19708.7	17449.0	16869.2
75°	1147.2	1174.9	1295.6	1563.3	1804.7	8114.8	18643.3	20216.4	17652.9	15730.3
77.5°	858.6	871.1	969.6	1238.7	923.8	4278.0	14896.6	16742.9	15111.6	12924.1
80°	622.8	636.7	710.2	929.4	647.8	1564.7	10228.9	11752.0	10349.5	8238.3
82.5°	430.0	435.6	467.5	632.5	452.2	607.6	5803.8	6891.4	5777.5	2890.8
85°	259.4	266.3	280.2	369.0	256.6	288.5	2505.2	2591.2	1727.0	690.8
87.5°	106.8	113.7	124.8	155.4	101.3	80.5	413.4	518.8	323.2	202.5
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°
4733.0	0°	4733.0	4733.0	4733.0	4733.0	4733.0	4733.0	4733.0	4733.0	4733.0	4733.0
4746.8	2.5°	4739.9	4730.2	4703.8	4667.8	4634.5	4592.9	4574.8	4559.6	4545.7	4519.3
4784.3	5°	4769.0	4742.7	4671.9	4580.4	4476.3	4362.6	4251.6	4175.3	4110.1	4061.6
4827.3	7.5°	4813.4	4763.5	4634.5	4447.2	4208.6	3964.5	3743.9	3587.2	3469.3	3426.3
4888.3	10°	4859.2	4799.5	4574.8	4244.7	3832.7	3456.8	3164.1	3003.2	2908.9	2878.3
4960.5	12.5°	4913.3	4825.9	4481.9	3963.1	3412.4	3000.4	2745.2	2650.8	2602.3	2585.7
5049.2	15°	4992.4	4848.1	4341.8	3610.8	3011.5	2667.5	2502.4	2437.2	2412.3	2410.9
5140.8	17.5°	5052.0	4852.3	4124.0	3233.5	2703.6	2466.4	2330.4	2305.4	2322.1	2347.1
5231.0	20°	5118.6	4814.8	3838.2	2889.4	2487.2	2290.2	2233.3	2250.0	2290.2	2326.3
5350.2	22.5°	5165.8	4746.8	3492.8	2621.7	2299.9	2188.9	2186.2	2220.8	2243.0	2261.1
5490.3	25°	5207.4	4631.7	3126.6	2397.0	2145.9	2127.9	2158.4	2147.3	2132.1	2147.3
5630.5	27.5°	5237.9	4450.0	2799.3	2200.0	2037.7	2086.3	2068.2	2043.3	2041.9	2050.2
5795.5	30°	5228.2	4207.2	2530.2	2012.8	1961.4	2008.6	1965.6	1961.4	1957.3	1961.4
6043.8	32.5°	5228.2	3931.2	2323.5	1883.8	1912.9	1894.8	1890.7	1881.0	1864.3	1862.9
6380.9	35°	5257.3	3655.1	2145.9	1814.4	1872.7	1829.7	1832.4	1808.8	1774.2	1757.5
6827.6	37.5°	5317.0	3433.2	1969.8	1781.1	1801.9	1800.5	1789.4	1749.2	1688.2	1635.5
7385.2	40°	5461.2	3368.0	1849.1	1765.8	1768.6	1785.3	1756.1	1678.5	1539.7	1453.7
7951.2	42.5°	5687.3	3477.6	1822.7	1728.4	1746.4	1763.1	1706.2	1525.9	1427.4	1376.1
8544.9	45°	5974.5	3669.0	1879.6	1674.3	1693.7	1722.8	1553.6	1467.6	1423.2	1424.6
9133.0	47.5°	6337.9	3870.2	1985.0	1627.1	1617.4	1634.1	1452.3	1399.6	1338.6	1353.9
9697.6	50°	6758.2	4074.1	2084.9	1563.3	1532.8	1478.7	1387.2	1337.2	1259.5	1223.5
10242.7	52.5°	7213.2	4271.0	2125.1	1485.6	1441.3	1378.8	1342.8	1281.7	1187.4	1127.8
10757.4	55°	7644.6	4450.0	2080.7	1392.7	1349.7	1301.1	1295.6	1258.1	1156.9	1073.7
11215.1	57.5°	8052.4	4599.8	1969.8	1298.4	1256.8	1227.6	1265.1	1247.0	1119.4	1012.6
11647.9	60°	8397.8	4702.4	1808.8	1202.7	1173.5	1158.3	1215.1	1209.6	1066.7	947.4
12036.3	62.5°	8672.5	4742.7	1631.3	1111.1	1104.2	1076.4	1145.8	1145.8	1000.1	883.6
12377.6	65°	8887.5	4703.8	1451.0	1020.9	1034.8	993.2	1061.2	1052.8	929.4	826.7
12770.1	67.5°	9077.5	4576.2	1251.2	932.2	964.1	911.4	972.4	953.0	851.7	769.9
13110.0	70°	9162.1	4279.4	1023.7	843.4	882.2	830.9	883.6	847.5	764.3	708.8
12736.8	72.5°	8482.4	3556.7	805.9	750.4	783.7	742.1	787.9	746.3	670.0	645.0
10998.7	75°	7017.6	2668.9	620.1	649.2	674.2	642.3	672.8	642.3	572.9	590.9
8124.5	77.5°	5096.4	1801.9	474.4	542.4	553.5	536.8	563.2	528.5	466.1	461.9
4049.1	80°	2534.3	1055.6	371.8	428.6	424.5	413.4	443.9	427.2	374.5	396.7
1093.1	82.5°	733.8	452.2	270.5	301.0	292.7	295.5	317.7	326.0	488.3	484.1
339.9	85°	230.3	177.6	162.3	167.8	159.5	163.7	187.3	371.8	344.0	201.1
105.4	87.5°	59.6	61.0	40.2	43.0	44.4	52.7	59.6	226.1	108.2	70.7
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>
4733.0
4506.9
4021.4
3351.4
2831.2
2589.8
2416.4
2356.8
2338.7
2270.8
2157.0
2064.1
1976.7
1881.0
1774.2
1653.5
1464.8
1376.1
1431.5
1392.7
1233.2
1126.4
1073.7
1007.1
943.3
879.5
821.2
764.3
697.7
624.2
539.6
441.1
392.6
495.2
217.8
74.9
0.0

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