

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: P951075

Luminaire Tested: **GALN-SB5B-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951075
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-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 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: 24980 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

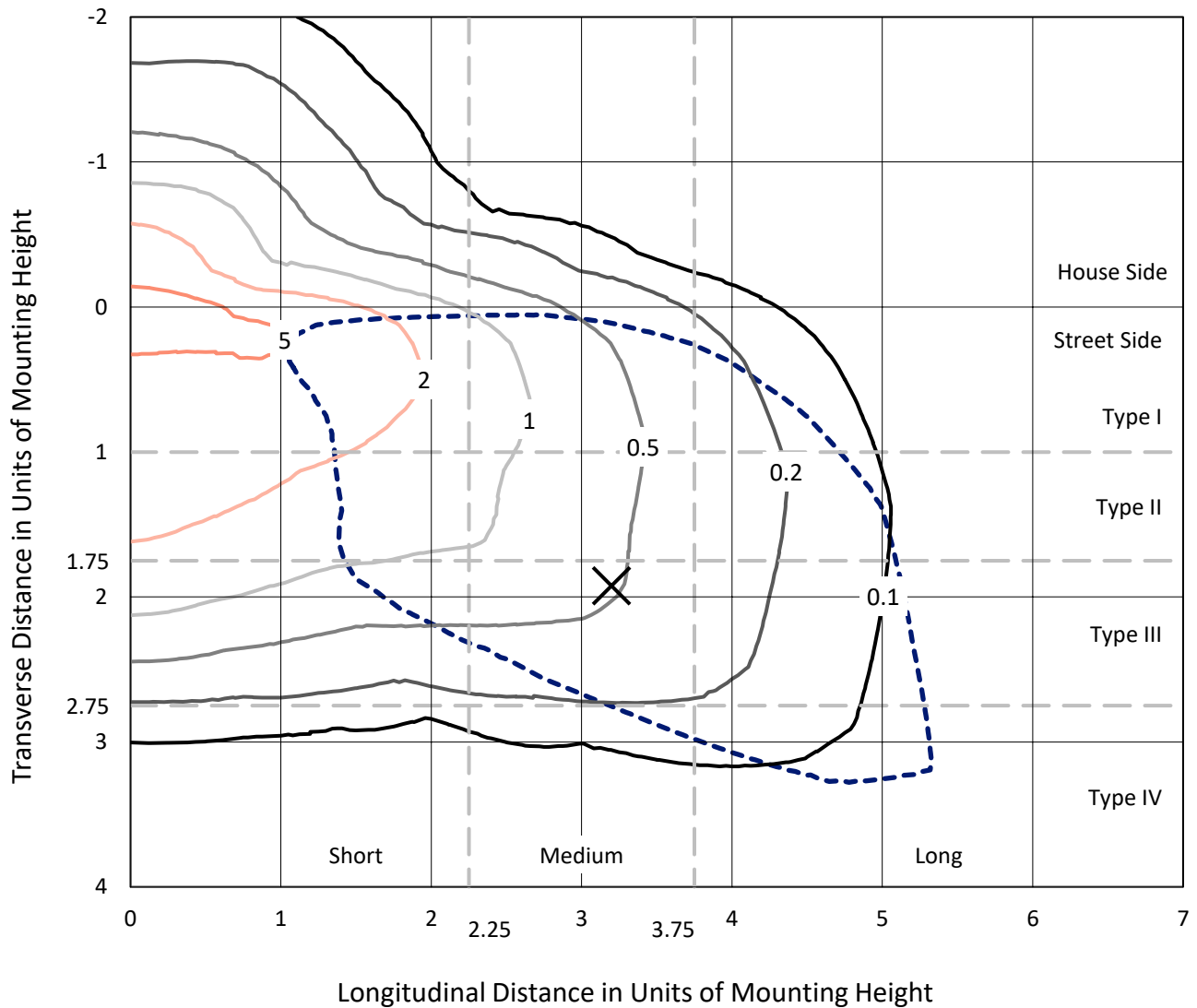
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

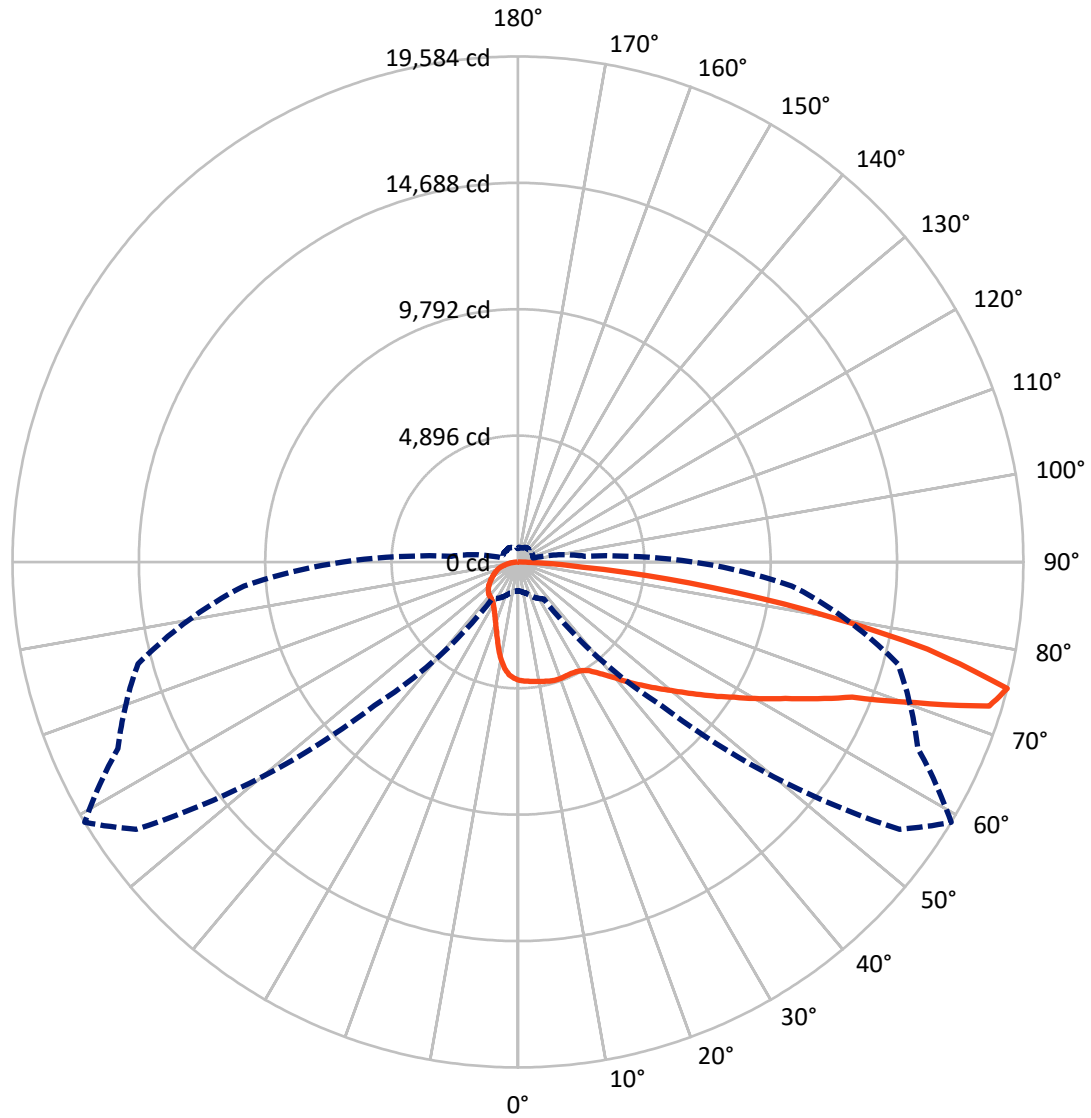
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	4685.2	0.0	4685.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20294.8	0.0	20294.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	24980.0	0.0	24980.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.1	1.6
10°-20°	1050.9	4.2
20°-30°	1596.2	6.4
30°-40°	2372.7	9.5
40°-50°	3528.5	14.1
50°-60°	4789.6	19.2
60°-70°	5847.3	23.4
70°-80°	4588.9	18.4
80°-90°	794.9	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°	24980.0	100.0
0°-180°	24980.0	100.0



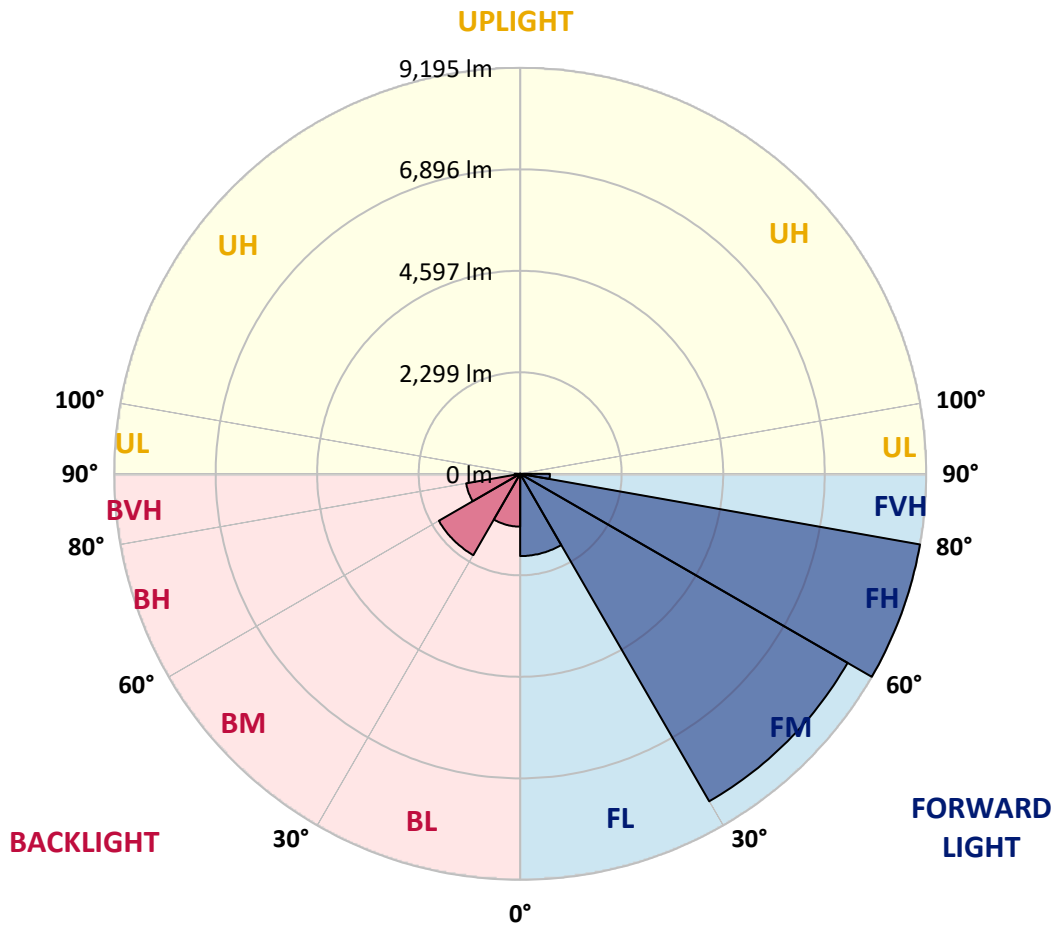
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1862.5	7.5			
FM (30°-60°)	8564.2	34.3			
FH (60°-80°)	9194.9	36.8			G4/12000
FVH (80°-90°)	673.2	2.7			G4/750
BL (0°-30°)	1195.6	4.8	B3/2500		
BM (30°-60°)	2126.6	8.5	B2/2500		
BH (60°-80°)	1241.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	121.7	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°	4585.0	4585.0	4585.0	4585.0	4585.0	4585.0	4585.0	4585.0	4585.0	4585.0
2.5°	4624.0	4607.9	4624.0	4617.3	4614.6	4609.2	4610.6	4620.0	4614.6	4621.3
5°	4593.1	4583.7	4599.8	4595.8	4613.2	4615.9	4633.4	4644.2	4650.9	4652.2
7.5°	4542.0	4532.6	4555.5	4574.3	4611.9	4622.6	4658.9	4676.4	4685.8	4701.9
10°	4355.2	4351.2	4407.6	4478.9	4567.6	4622.6	4677.7	4707.3	4722.1	4765.1
12.5°	4024.7	4030.0	4103.9	4241.0	4418.4	4595.8	4699.2	4742.2	4765.1	4818.8
15°	3708.9	3707.5	3788.2	3934.6	4183.2	4477.5	4710.0	4783.9	4822.9	4902.2
17.5°	3526.1	3520.7	3577.2	3688.7	3919.8	4296.1	4683.1	4806.7	4890.1	4989.5
20°	3492.5	3481.8	3511.3	3566.4	3730.4	4097.2	4613.2	4806.7	4943.8	5072.8
22.5°	3614.8	3597.3	3585.2	3578.5	3651.1	3933.3	4534.0	4790.6	5023.1	5192.4
25°	3860.7	3833.8	3772.0	3711.6	3690.1	3859.4	4464.1	4786.6	5141.4	5353.7
27.5°	4258.5	4224.9	4099.9	3954.8	3824.4	3897.0	4433.2	4810.8	5271.7	5524.3
30°	4751.7	4715.4	4558.1	4335.1	4101.3	4036.8	4472.1	4882.0	5438.3	5751.4
32.5°	5193.8	5153.4	5019.1	4792.0	4476.2	4278.6	4595.8	5017.7	5700.4	6067.2
35°	5586.1	5539.1	5418.2	5208.5	4935.8	4618.6	4818.8	5258.3	6072.6	6580.6
37.5°	5970.5	5915.4	5783.7	5562.0	5371.1	5071.5	5126.6	5567.3	6567.1	7204.1
40°	6400.5	6321.2	6161.3	5942.3	5756.8	5602.3	5531.1	5946.3	7069.7	7900.2
42.5°	6817.1	6741.8	6551.0	6364.2	6131.7	6087.4	6000.0	6389.7	7619.3	8664.8
45°	7265.9	7175.9	6944.7	6708.2	6561.7	6409.9	6454.2	6833.2	8158.2	9444.2
47.5°	7686.5	7585.7	7312.9	7049.5	6968.9	6681.3	6870.8	7321.0	8718.5	10234.3
50°	7913.6	7814.2	7587.1	7349.2	7286.0	7015.9	7322.3	7857.2	9305.8	11021.8
52.5°	8103.1	7995.6	7698.6	7566.9	7548.1	7380.1	7878.7	8469.9	9893.0	11717.9
55°	8304.6	8185.0	7806.1	7687.8	7773.8	7788.6	8538.5	9164.7	10513.8	12396.5
57.5°	8537.1	8385.3	7909.6	7790.0	7994.2	8267.0	9296.4	9884.9	11123.9	13025.4
60°	8756.2	8603.0	8108.4	7952.6	8232.1	8822.0	10165.8	10757.1	11814.6	13585.8
62.5°	8799.2	8672.8	8267.0	8265.7	8554.6	9469.7	11195.1	11637.3	12418.0	14139.4
65°	8054.7	7975.4	7734.9	8253.6	9016.9	10402.3	12341.4	12763.4	13185.3	14623.2
67.5°	6130.4	6141.1	6123.7	7124.8	8643.3	11742.1	14001.0	13968.7	14132.7	15166.1
70°	2803.2	2866.3	3277.5	4918.3	6924.6	11896.6	16745.0	16327.1	15321.9	15868.9
72.5°	1514.5	1562.8	1730.8	2382.5	4163.1	10577.0	18795.6	19092.6	16903.6	16341.9
75°	1111.3	1138.2	1255.1	1514.5	1748.3	7861.2	18060.6	19584.4	17101.1	15238.6
77.5°	831.8	843.9	939.3	1200.0	895.0	4144.3	14431.0	16219.6	14639.3	12520.1
80°	603.4	616.8	688.0	900.3	627.6	1515.8	9909.1	11384.6	10026.0	7980.8
82.5°	416.6	422.0	452.9	612.8	438.1	588.6	5622.4	6676.0	5596.9	2800.5
85°	251.3	258.0	271.4	357.4	248.6	279.5	2426.9	2510.2	1673.0	669.2
87.5°	103.5	110.2	120.9	150.5	98.1	77.9	400.5	502.6	313.1	196.2
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°
4585.0	0°	4585.0	4585.0	4585.0	4585.0	4585.0	4585.0	4585.0	4585.0	4585.0	4585.0
4598.5	2.5°	4591.7	4582.3	4556.8	4521.9	4489.6	4449.3	4431.8	4417.0	4403.6	4378.1
4634.7	5°	4620.0	4594.4	4525.9	4437.2	4336.4	4226.2	4118.7	4044.8	3981.7	3934.6
4676.4	7.5°	4663.0	4614.6	4489.6	4308.2	4077.1	3840.6	3626.9	3475.0	3360.8	3319.2
4735.5	10°	4707.3	4649.5	4431.8	4112.0	3712.9	3348.7	3065.2	2909.3	2817.9	2788.4
4805.4	12.5°	4759.7	4675.1	4341.8	3839.2	3305.7	2906.6	2659.4	2568.0	2521.0	2504.8
4891.4	15°	4836.3	4696.6	4206.1	3497.9	2917.4	2584.1	2424.2	2361.0	2336.9	2335.5
4980.1	17.5°	4894.1	4700.6	3995.1	3132.4	2619.1	2389.3	2257.6	2233.4	2249.5	2273.7
5067.4	20°	4958.6	4664.3	3718.3	2799.1	2409.4	2218.6	2163.5	2179.6	2218.6	2253.5
5183.0	22.5°	5004.3	4598.5	3383.7	2539.8	2228.0	2120.5	2117.8	2151.4	2172.9	2190.4
5318.7	25°	5044.6	4486.9	3028.9	2322.1	2078.8	2061.4	2090.9	2080.2	2065.4	2080.2
5454.5	27.5°	5074.2	4310.9	2711.8	2131.3	1974.0	2021.1	2003.6	1979.4	1978.1	1986.1
5614.4	30°	5064.8	4075.7	2451.1	1949.8	1900.1	1945.8	1904.2	1900.1	1896.1	1900.1
5854.9	32.5°	5064.8	3808.3	2250.9	1824.9	1853.1	1835.6	1831.6	1822.2	1806.1	1804.7
6181.4	35°	5093.0	3540.9	2078.8	1757.7	1814.1	1772.5	1775.2	1752.3	1718.7	1702.6
6614.2	37.5°	5150.8	3325.9	1908.2	1725.4	1745.6	1744.2	1733.5	1694.5	1635.4	1584.3
7154.4	40°	5290.5	3262.7	1791.3	1710.6	1713.3	1729.5	1701.2	1626.0	1491.6	1408.3
7702.6	42.5°	5509.6	3368.9	1765.7	1674.4	1691.8	1708.0	1652.9	1478.2	1382.8	1333.0
8277.8	45°	5787.7	3554.3	1820.8	1622.0	1640.8	1669.0	1505.0	1421.7	1378.7	1380.1
8847.5	47.5°	6139.8	3749.2	1923.0	1576.3	1566.9	1583.0	1407.0	1355.9	1296.8	1311.5
9394.5	50°	6547.0	3946.7	2019.7	1514.5	1484.9	1432.5	1343.8	1295.4	1220.2	1185.2
9922.6	52.5°	6987.7	4137.5	2058.7	1439.2	1396.2	1335.7	1300.8	1241.7	1150.3	1092.5
10421.1	55°	7405.6	4310.9	2015.7	1349.2	1307.5	1260.5	1255.1	1218.8	1120.7	1040.1
10864.6	57.5°	7800.7	4456.0	1908.2	1257.8	1217.5	1189.3	1225.5	1208.1	1084.4	981.0
11283.8	60°	8135.3	4555.5	1752.3	1165.1	1136.8	1122.1	1177.2	1171.8	1033.4	917.8
11660.1	62.5°	8401.4	4594.4	1580.3	1076.4	1069.7	1042.8	1110.0	1110.0	968.9	856.0
11990.7	65°	8609.7	4556.8	1405.6	989.0	1002.5	962.2	1028.0	1019.9	900.3	800.9
12371.0	67.5°	8793.8	4433.2	1212.1	903.0	933.9	882.9	942.0	923.2	825.1	745.8
12700.2	70°	8875.8	4145.6	991.7	817.0	854.7	804.9	856.0	821.1	740.4	686.7
12338.7	72.5°	8217.3	3445.5	780.7	727.0	759.2	718.9	763.3	723.0	649.1	624.9
10654.9	75°	6798.3	2585.5	600.7	628.9	653.1	622.2	651.7	622.2	555.0	572.5
7870.6	77.5°	4937.1	1745.6	459.6	525.4	536.2	520.0	545.6	512.0	451.5	447.5
3922.5	80°	2455.1	1022.6	360.1	415.2	411.2	400.5	430.0	413.9	362.8	384.3
1058.9	82.5°	710.9	438.1	262.0	291.6	283.5	286.2	307.7	315.8	473.0	469.0
329.2	85°	223.1	172.0	157.2	162.6	154.5	158.6	181.4	360.1	333.3	194.9
102.1	87.5°	57.8	59.1	39.0	41.7	43.0	51.1	57.8	219.0	104.8	68.5
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>
4585.0
4366.0
3895.7
3246.6
2742.7
2508.9
2340.9
2283.1
2265.6
2199.8
2089.6
1999.6
1914.9
1822.2
1718.7
1601.8
1419.0
1333.0
1386.8
1349.2
1194.6
1091.2
1040.1
975.6
913.8
852.0
795.5
740.4
675.9
604.7
522.7
427.3
380.3
479.7
211.0
72.6
0.0

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