

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: P953721

Luminaire Tested: **GALN-SB7A-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953721
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-SB7A-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22593 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

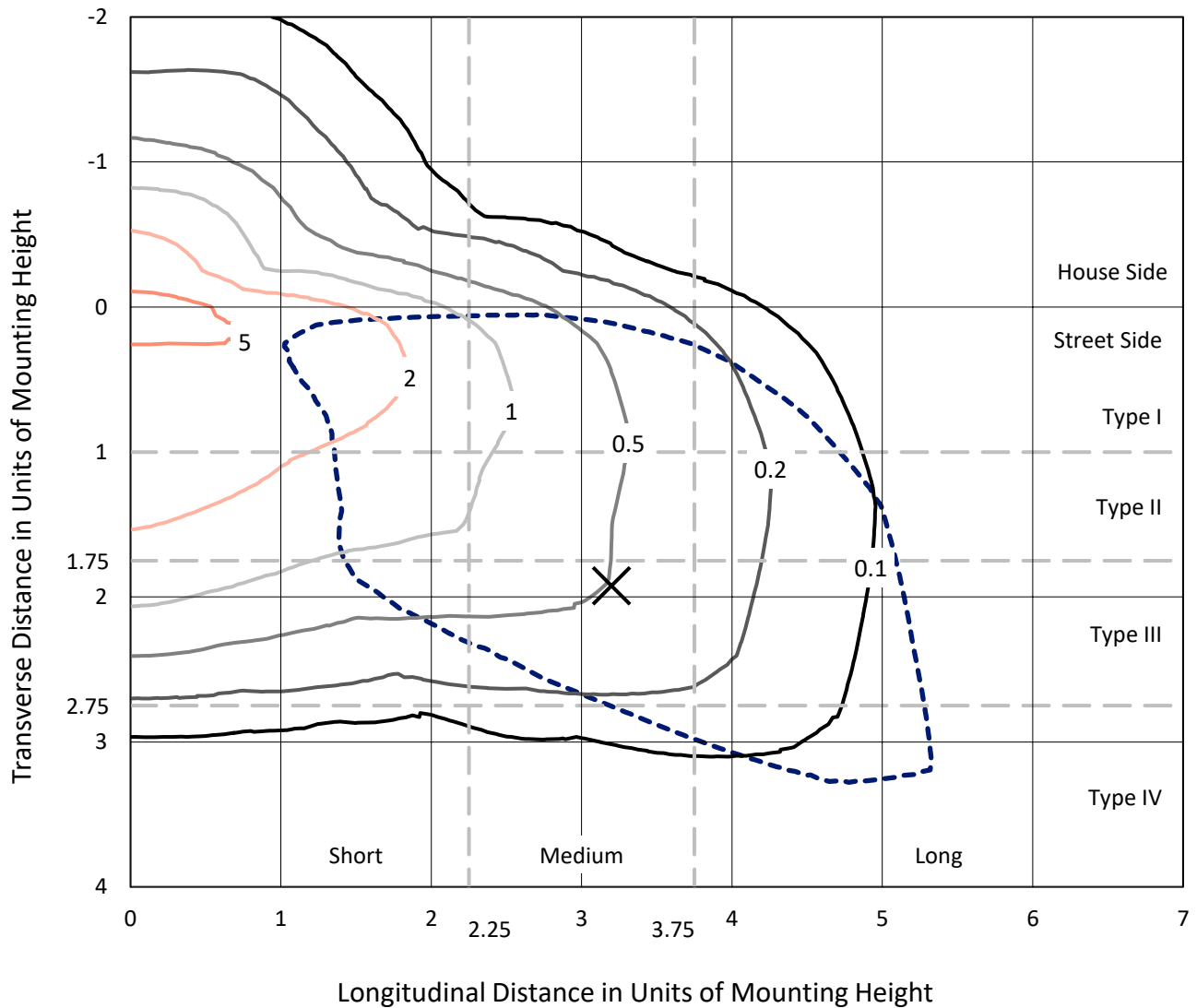
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

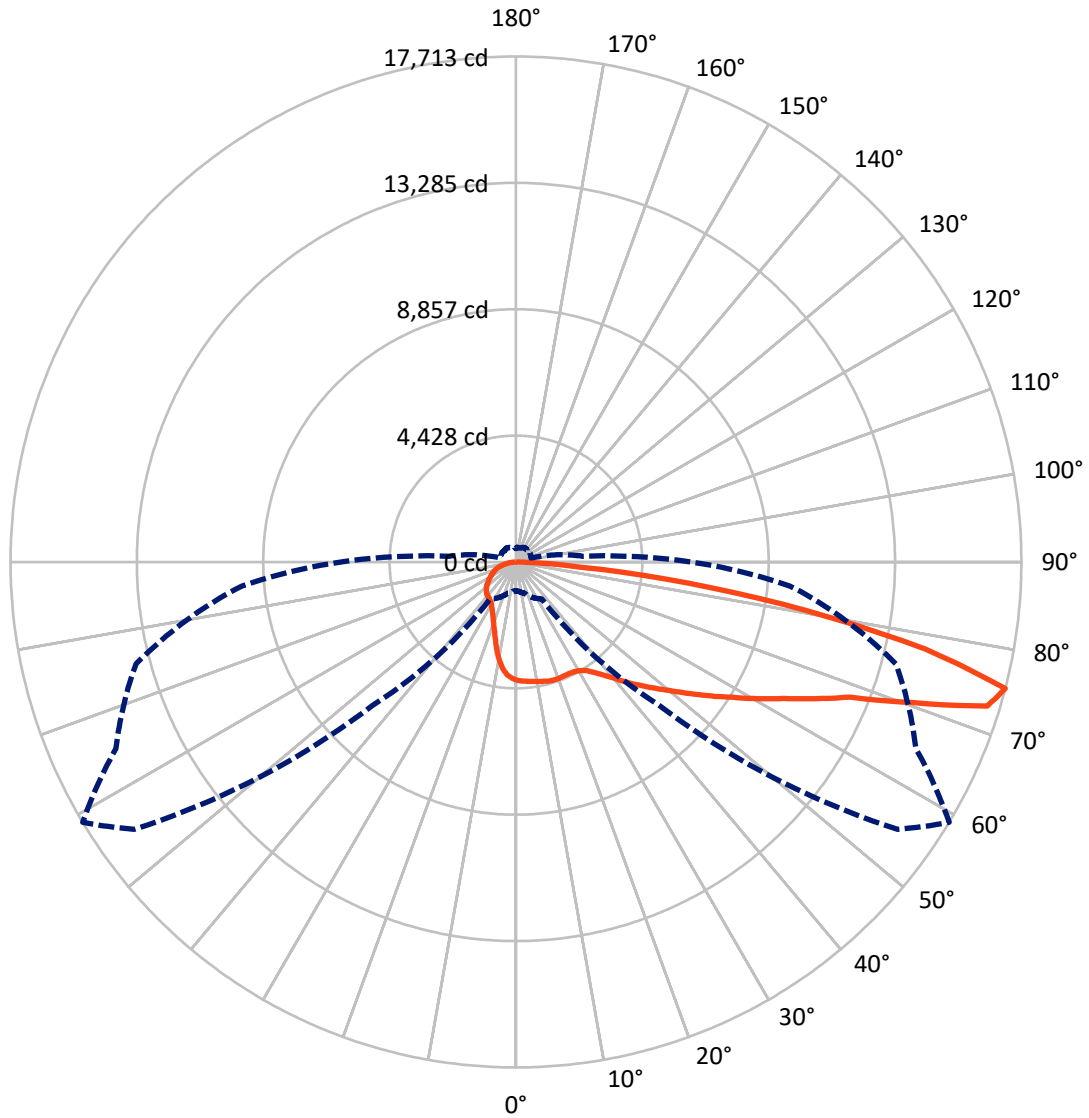
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	4237.5	0.0	4237.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18355.5	0.0	18355.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	22593.0	0.0	22593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.8	1.6
10°-20°	950.4	4.2
20°-30°	1443.6	6.4
30°-40°	2145.9	9.5
40°-50°	3191.4	14.1
50°-60°	4331.9	19.2
60°-70°	5288.5	23.4
70°-80°	4150.4	18.4
80°-90°	719.0	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°	22593.0	100.0
0°-180°	22593.0	100.0

Coefficient of Utilization



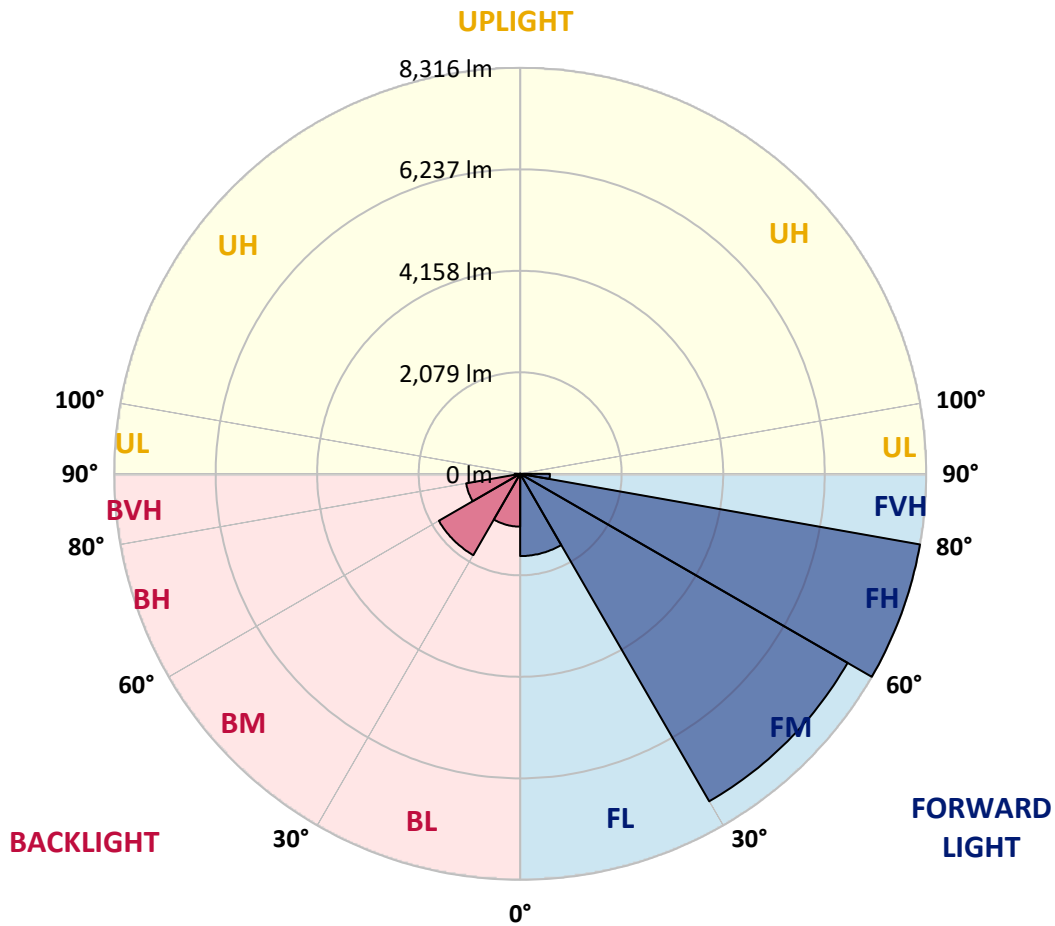
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1684.6	7.5			
FM (30°-60°)	7745.8	34.3			
FH (60°-80°)	8316.3	36.8			G4/12000
FVH (80°-90°)	608.9	2.7			G4/750
BL (0°-30°)	1081.4	4.8	B3/2500		
BM (30°-60°)	1923.4	8.5	B2/2500		
BH (60°-80°)	1122.7	5.0	B3/2500		G3/2500
BVH (80°-90°)	110.1	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°	4146.9	4146.9	4146.9	4146.9	4146.9	4146.9	4146.9	4146.9	4146.9	4146.9
2.5°	4182.1	4167.6	4182.1	4176.1	4173.6	4168.8	4170.0	4178.5	4173.6	4179.7
5°	4154.2	4145.7	4160.3	4156.6	4172.4	4174.8	4190.6	4200.4	4206.4	4207.7
7.5°	4108.0	4099.5	4120.2	4137.2	4171.2	4180.9	4213.7	4229.5	4238.0	4252.6
10°	3939.1	3935.4	3986.5	4050.9	4131.1	4180.9	4230.8	4257.5	4270.9	4309.8
12.5°	3640.1	3644.9	3711.8	3835.8	3996.2	4156.6	4250.2	4289.1	4309.8	4358.4
15°	3354.5	3353.2	3426.2	3558.6	3783.5	4049.7	4259.9	4326.8	4362.0	4433.7
17.5°	3189.2	3184.3	3235.4	3336.2	3545.3	3885.6	4235.6	4347.4	4422.8	4512.7
20°	3158.8	3149.1	3175.8	3225.6	3373.9	3705.7	4172.4	4347.4	4471.4	4588.1
22.5°	3269.4	3253.6	3242.6	3236.6	3302.2	3557.4	4100.7	4332.8	4543.1	4696.2
25°	3491.8	3467.5	3411.6	3356.9	3337.4	3490.6	4037.5	4329.2	4650.1	4842.1
27.5°	3851.6	3821.2	3708.1	3576.9	3459.0	3524.6	4009.6	4351.1	4768.0	4996.4
30°	4297.6	4264.8	4122.6	3920.8	3709.4	3651.0	4044.8	4415.5	4918.7	5201.8
32.5°	4697.5	4661.0	4539.5	4334.1	4048.4	3869.8	4156.6	4538.2	5155.7	5487.5
35°	5052.4	5009.8	4900.4	4710.8	4464.1	4177.3	4358.4	4755.8	5492.3	5951.7
37.5°	5400.0	5350.1	5231.0	5030.5	4857.9	4586.9	4636.7	5035.3	5939.6	6515.7
40°	5788.9	5717.2	5572.5	5374.4	5206.7	5066.9	5002.5	5378.1	6394.1	7145.3
42.5°	6165.6	6097.6	5925.0	5756.1	5545.8	5505.7	5426.7	5779.2	6891.2	7836.8
45°	6571.6	6490.2	6281.1	6067.2	5934.7	5797.4	5837.5	6180.2	7378.6	8541.7
47.5°	6952.0	6860.9	6614.1	6375.9	6303.0	6042.9	6214.3	6621.4	7885.4	9256.4
50°	7157.4	7067.5	6862.1	6646.9	6589.8	6345.5	6622.6	7106.4	8416.5	9968.6
52.5°	7328.8	7231.5	6962.9	6843.8	6826.8	6674.9	7125.8	7660.6	8947.7	10598.2
55°	7511.1	7402.9	7060.2	6953.2	7031.0	7044.4	7722.6	8288.9	9509.2	11211.9
57.5°	7721.3	7584.0	7153.8	7045.6	7230.3	7477.1	8408.0	8940.4	10061.0	11780.7
60°	7919.5	7780.9	7333.6	7192.7	7445.5	7979.0	9194.4	9729.2	10685.7	12287.5
62.5°	7958.3	7844.1	7477.1	7475.8	7737.1	8564.8	10125.4	10525.2	11231.4	12788.3
65°	7285.0	7213.3	6995.8	7464.9	8155.2	9408.3	11162.1	11543.7	11925.4	13225.8
67.5°	5544.6	5554.3	5538.5	6444.0	7817.4	10620.0	12663.1	12633.9	12782.2	13716.8
70°	2535.3	2592.4	2964.3	4448.3	6262.9	10759.8	15144.9	14766.9	13857.8	14352.5
72.5°	1369.7	1413.5	1565.4	2154.9	3765.3	9566.3	16999.6	17268.2	15288.3	14780.3
75°	1005.1	1029.4	1135.2	1369.7	1581.2	7110.0	16334.8	17713.0	15467.0	13782.5
77.5°	752.3	763.3	849.6	1085.3	809.4	3748.2	13052.0	14669.7	13240.4	11323.7
80°	545.7	557.9	622.3	814.3	567.6	1371.0	8962.3	10296.7	9068.0	7218.2
82.5°	376.8	381.6	409.6	554.2	396.2	532.3	5085.2	6038.0	5062.1	2532.9
85°	227.3	233.4	245.5	323.3	224.8	252.8	2195.0	2270.3	1513.2	605.3
87.5°	93.6	99.7	109.4	136.1	88.7	70.5	362.2	454.6	283.2	177.4
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°
4146.9	0°	4146.9	4146.9	4146.9	4146.9	4146.9	4146.9	4146.9	4146.9	4146.9	4146.9
4159.0	2.5°	4153.0	4144.5	4121.4	4089.8	4060.6	4024.1	4008.3	3995.0	3982.8	3959.7
4191.9	5°	4178.5	4155.4	4093.4	4013.2	3922.0	3822.4	3725.2	3658.3	3601.2	3558.6
4229.5	7.5°	4217.4	4173.6	4060.6	3896.5	3687.5	3473.6	3280.3	3143.0	3039.7	3002.0
4283.0	10°	4257.5	4205.2	4008.3	3719.1	3358.1	3028.7	2772.3	2631.3	2548.7	2521.9
4346.2	12.5°	4304.9	4228.3	3926.9	3472.4	2989.8	2628.9	2405.2	2322.6	2280.1	2265.5
4424.0	15°	4374.2	4247.8	3804.2	3163.6	2638.6	2337.2	2192.6	2135.4	2113.6	2112.3
4504.2	17.5°	4426.4	4251.4	3613.3	2833.1	2368.8	2161.0	2041.8	2020.0	2034.6	2056.4
4583.2	20°	4484.8	4218.6	3363.0	2531.6	2179.2	2006.6	1956.8	1971.4	2006.6	2038.2
4687.7	22.5°	4526.1	4159.0	3060.3	2297.1	2015.1	1917.9	1915.4	1945.8	1965.3	1981.1
4810.5	25°	4562.6	4058.2	2739.5	2100.2	1880.2	1864.4	1891.1	1881.4	1868.0	1881.4
4933.2	27.5°	4589.3	3899.0	2452.6	1927.6	1785.4	1827.9	1812.1	1790.3	1789.0	1796.3
5077.9	30°	4580.8	3686.3	2216.9	1763.5	1718.6	1759.9	1722.2	1718.6	1714.9	1718.6
5295.4	32.5°	4580.8	3444.4	2035.8	1650.5	1676.0	1660.2	1656.6	1648.1	1633.5	1632.3
5590.8	35°	4606.3	3202.5	1880.2	1589.7	1640.8	1603.1	1605.5	1584.9	1554.5	1539.9
5982.1	37.5°	4658.6	3008.1	1725.8	1560.6	1578.8	1577.6	1567.8	1532.6	1479.1	1432.9
6470.7	40°	4785.0	2951.0	1620.1	1547.2	1549.6	1564.2	1538.7	1470.6	1349.1	1273.7
6966.6	42.5°	4983.1	3047.0	1597.0	1514.4	1530.2	1544.8	1494.9	1336.9	1250.6	1205.7
7486.8	45°	5234.7	3214.7	1646.8	1467.0	1484.0	1509.5	1361.2	1285.9	1247.0	1248.2
8002.1	47.5°	5553.1	3390.9	1739.2	1425.6	1417.1	1431.7	1272.5	1226.3	1172.8	1186.2
8496.8	50°	5921.4	3569.6	1826.7	1369.7	1343.0	1295.6	1215.4	1171.6	1103.6	1072.0
8974.4	52.5°	6320.0	3742.2	1862.0	1301.7	1262.8	1208.1	1176.5	1123.0	1040.4	988.1
9425.3	55°	6698.0	3899.0	1823.1	1220.2	1182.6	1140.0	1135.2	1102.4	1013.6	940.7
9826.4	57.5°	7055.3	4030.2	1725.8	1137.6	1101.1	1075.6	1108.4	1092.6	980.8	887.2
10205.6	60°	7357.9	4120.2	1584.9	1053.7	1028.2	1014.8	1064.7	1059.8	934.6	830.1
10545.9	62.5°	7598.6	4155.4	1429.3	973.5	967.4	943.1	1003.9	1003.9	876.3	774.2
10844.9	65°	7787.0	4121.4	1271.3	894.5	906.7	870.2	929.8	922.5	814.3	724.4
11188.8	67.5°	7953.5	4009.6	1096.3	816.7	844.7	798.5	852.0	835.0	746.2	674.5
11486.6	70°	8027.6	3749.5	897.0	739.0	773.0	728.0	774.2	742.6	669.7	621.1
11159.7	72.5°	7432.1	3116.2	706.1	657.5	686.7	650.2	690.3	653.9	587.0	565.2
9636.8	75°	6148.6	2338.4	543.3	568.8	590.7	562.7	589.5	562.7	502.0	517.8
7118.5	77.5°	4465.3	1578.8	415.7	475.2	484.9	470.4	493.4	463.1	408.4	404.7
3547.7	80°	2220.5	924.9	325.7	375.6	371.9	362.2	388.9	374.3	328.2	347.6
957.7	82.5°	642.9	396.2	237.0	263.7	256.4	258.9	278.3	285.6	427.8	424.2
297.8	85°	201.8	155.6	142.2	147.1	139.8	143.4	164.1	325.7	301.4	176.2
92.4	87.5°	52.3	53.5	35.2	37.7	38.9	46.2	52.3	198.1	94.8	62.0
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>
4146.9
3948.8
3523.4
2936.4
2480.6
2269.1
2117.2
2064.9
2049.1
1989.6
1889.9
1808.5
1731.9
1648.1
1554.5
1448.7
1283.4
1205.7
1254.3
1220.2
1080.5
986.9
940.7
882.4
826.5
770.6
719.5
669.7
611.3
546.9
472.8
386.5
344.0
433.9
190.8
65.6
0.0

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