

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: P952219

Luminaire Tested: **GALN-SB6A-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26711 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

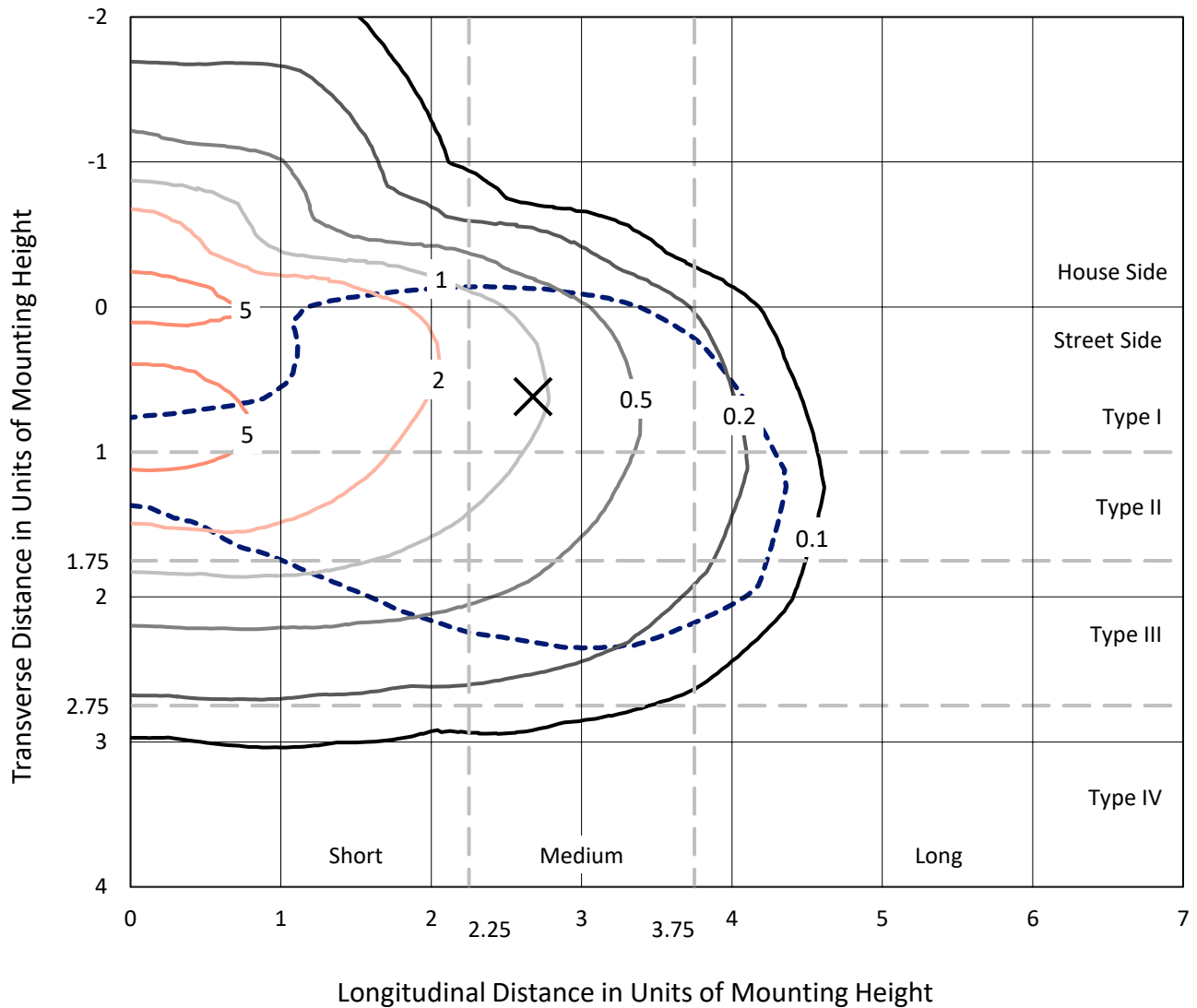
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P952219
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Iso-Footcandle Lines of Horizontal Illumination

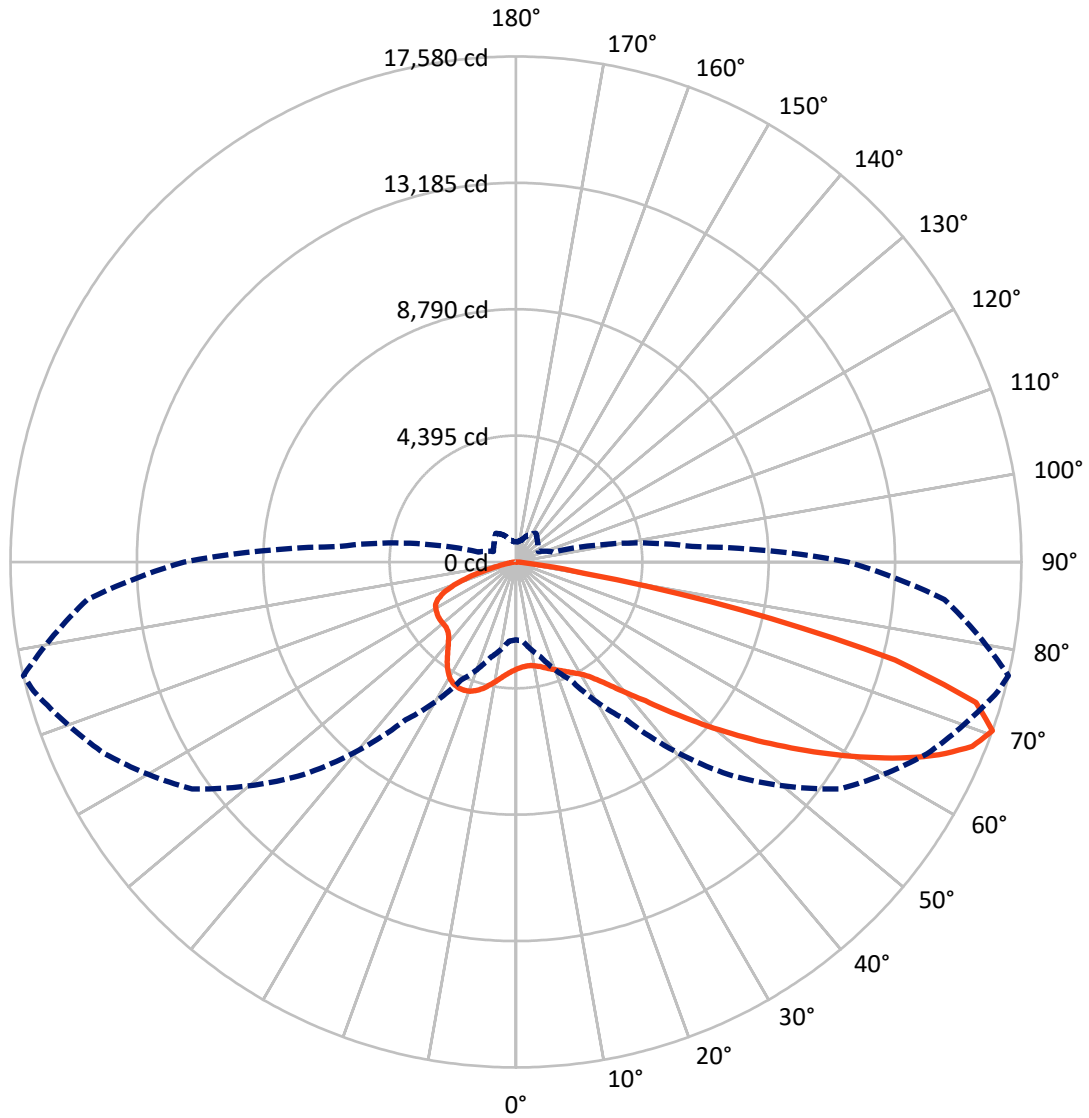
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5849.3	0.0	5849.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	20861.7	0.0	20861.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	26711.0	0.0	26711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.4	1.3
10°-20°	1025.7	3.8
20°-30°	1754.1	6.6
30°-40°	2820.8	10.6
40°-50°	4404.0	16.5
50°-60°	5882.7	22.0
60°-70°	6270.1	23.5
70°-80°	3859.8	14.5
80°-90°	338.2	1.3
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°	26711.0	100.0
0°-180°	26711.0	100.0

Coefficient of Utilization



REPORT NUMBER: P952219

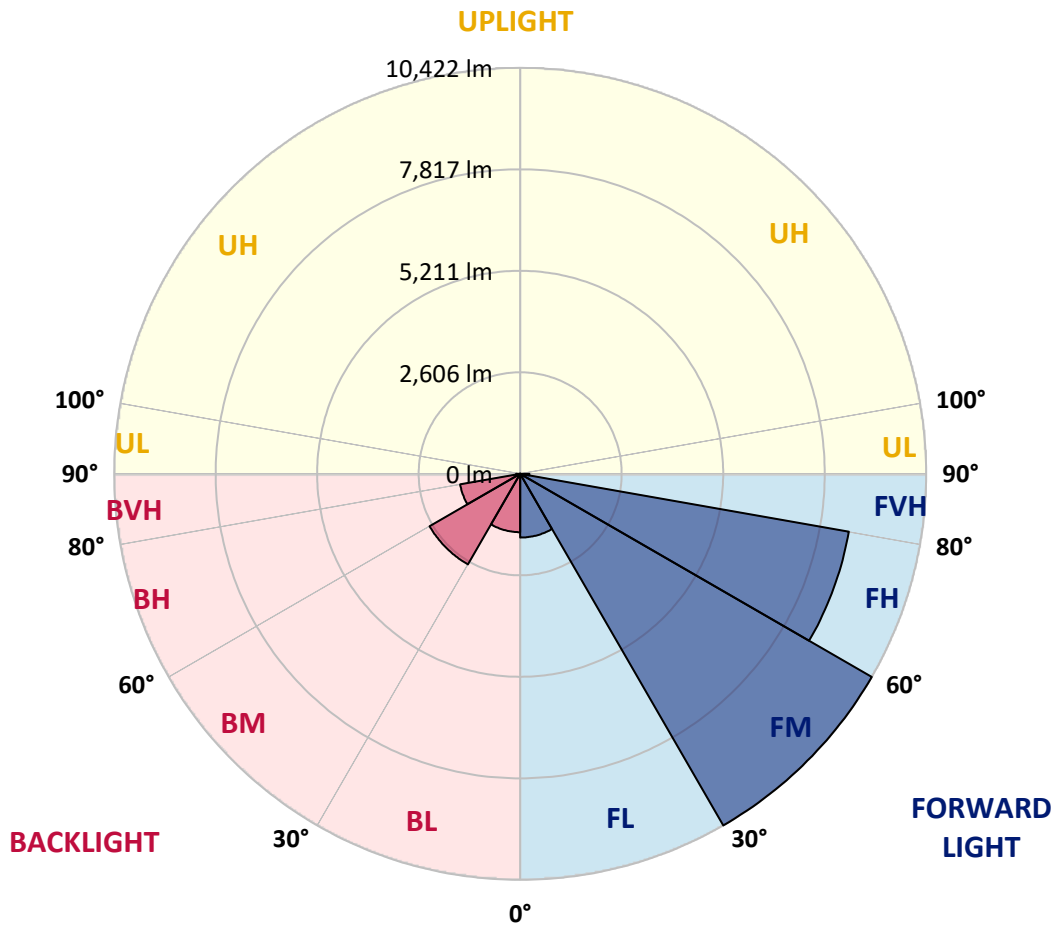
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1636.5	6.1			
FM (30°-60°)	10422.1	39.0			
FH (60°-80°)	8566.7	32.1			G4/12000
FVH (80°-90°)	236.5	0.9			G3/500
BL (0°-30°)	1498.8	5.6	B3/2500		
BM (30°-60°)	2685.5	10.1	B3/5000		
BH (60°-80°)	1563.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	101.7	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4
2.5°	3435.0	3433.7	3451.5	3456.9	3489.8	3513.0	3556.8	3603.3	3663.5	3670.3
5°	3236.7	3236.7	3257.2	3279.1	3321.5	3368.0	3435.0	3515.8	3619.7	3636.1
7.5°	3068.4	3079.4	3097.1	3139.6	3188.8	3255.8	3358.4	3473.3	3610.1	3636.1
10°	2933.0	2945.3	2967.2	3001.4	3075.3	3168.3	3302.3	3450.1	3633.4	3674.4
12.5°	2890.6	2902.9	2915.2	2941.2	3009.6	3119.0	3279.1	3461.0	3689.5	3730.5
15°	2989.1	3004.1	2994.5	2987.7	3023.3	3123.1	3290.0	3500.7	3759.3	3818.1
17.5°	3216.2	3221.6	3199.7	3135.5	3130.0	3183.3	3342.0	3555.4	3846.8	3911.1
20°	3582.8	3573.2	3528.1	3400.8	3328.3	3317.4	3430.9	3637.5	3937.1	4005.5
22.5°	4080.7	4069.8	3979.5	3778.4	3617.0	3510.3	3559.5	3744.2	4038.3	4114.9
25°	4701.8	4686.8	4554.1	4280.5	4030.1	3766.1	3734.6	3885.1	4162.8	4234.0
27.5°	5426.9	5414.5	5270.9	4909.7	4548.6	4116.3	3952.1	4050.6	4292.8	4373.5
30°	6206.6	6242.2	5987.7	5599.2	5142.3	4573.2	4244.9	4254.5	4461.0	4533.5
32.5°	7123.2	7184.7	6878.3	6385.8	5762.0	5069.8	4614.3	4539.0	4705.9	4766.1
35°	8031.5	8101.3	7846.8	7302.4	6584.2	5655.3	5000.0	4866.0	5031.5	5097.2
37.5°	8816.8	8909.8	8778.4	8305.1	7463.8	6361.2	5503.5	5250.4	5432.3	5514.4
40°	9436.5	9578.7	9569.2	9273.7	8500.7	7217.6	6142.3	5725.1	5930.3	6019.2
42.5°	9939.9	10063.0	10169.7	10154.7	9582.8	8190.2	6893.3	6342.0	6498.0	6600.6
45°	10287.3	10418.7	10648.5	10896.1	10623.9	9231.3	7753.8	7073.9	7216.2	7370.8
47.5°	10597.9	10747.0	11045.2	11437.8	11507.6	10276.4	8696.4	7926.2	8056.1	8216.2
50°	10625.2	10753.8	11216.2	11773.0	12135.5	11280.5	9708.7	8882.4	9004.2	9175.2
52.5°	9964.5	10167.0	10974.1	11763.4	12424.2	12120.5	10714.2	9876.9	10013.7	10218.9
55°	7734.7	8031.5	10264.1	11396.8	12321.6	12663.6	11670.4	10934.4	11109.5	11324.3
57.5°	6662.2	6792.1	8147.8	10729.2	11853.7	12804.5	12477.5	12002.8	12284.6	12519.9
60°	5987.7	6095.8	6897.4	9690.9	11238.1	12581.5	13101.3	12998.7	13485.7	13766.2
62.5°	5265.4	5368.0	6097.2	8091.7	10450.1	12210.8	13495.3	13918.0	14716.9	15023.4
65°	4548.6	4636.1	5335.2	6799.0	9448.8	11840.0	13699.1	14712.8	15856.5	16173.8
67.5°	3749.7	3822.2	4482.9	5736.0	8231.2	11332.5	13800.4	15338.0	16848.3	17120.5
70°	2705.9	2762.0	3444.6	4536.3	6703.2	10459.7	13759.3	15781.2	17362.6	17580.1
72.5°	1279.1	1329.7	2131.3	2945.3	4734.6	8760.7	12929.0	15429.7	16840.1	16732.0
75°	682.6	726.4	1224.4	1615.6	2500.7	6005.5	10580.1	13291.5	14141.0	13615.7
77.5°	462.4	496.6	757.9	969.9	1142.3	2850.9	6800.3	9202.5	8853.7	7986.4
80°	366.6	402.2	621.1	656.6	552.7	1030.1	2809.9	4259.9	3060.2	2447.3
82.5°	281.8	321.5	522.6	476.1	301.0	422.7	818.1	1347.5	783.9	596.4
85°	172.4	214.8	410.4	303.7	169.6	192.9	277.7	374.8	239.4	199.7
87.5°	87.6	123.1	207.9	110.8	76.6	45.1	73.9	73.9	62.9	54.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P952219
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3726.4	0°	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4
3707.3	2.5°	3740.1	3767.5	3814.0	3857.8	3892.0	3924.8	3957.6	3975.4	3980.9	4002.8
3727.8	5°	3783.9	3834.5	3924.8	4009.6	4063.0	4095.8	4119.0	4132.7	4135.5	4142.3
3783.9	7.5°	3864.6	3945.3	4071.2	4156.0	4195.7	4192.9	4183.3	4149.1	4135.5	4123.1
3866.0	10°	3978.1	4084.8	4239.4	4298.3	4273.6	4208.0	4123.1	4023.3	3976.8	3931.6
3978.1	12.5°	4119.0	4254.5	4406.3	4403.6	4281.8	4113.6	3916.6	3763.4	3666.2	3596.5
4116.3	15°	4290.0	4446.0	4562.3	4469.3	4202.5	3900.2	3611.5	3411.8	3324.2	3247.6
4255.8	17.5°	4466.5	4633.4	4686.8	4448.7	4002.8	3584.2	3257.2	3099.9	3013.7	2972.7
4406.3	20°	4638.9	4804.4	4760.6	4331.1	3699.1	3225.7	2934.4	2848.2	2830.4	2840.0
4552.7	22.5°	4820.8	4968.6	4775.7	4104.0	3311.9	2859.1	2699.1	2701.8	2741.5	2770.2
4705.9	25°	5006.9	5106.7	4736.0	3775.7	2896.1	2589.6	2549.9	2593.7	2671.7	2727.8
4878.3	27.5°	5186.1	5229.9	4649.8	3369.4	2539.0	2396.7	2403.6	2493.9	2611.5	2689.5
5087.6	30°	5388.5	5339.3	4484.3	2912.5	2291.4	2231.2	2288.7	2394.0	2511.6	2581.4
5351.6	32.5°	5617.0	5433.7	4221.6	2489.8	2116.3	2098.5	2192.9	2261.3	2313.3	2333.8
5701.8	35°	5901.5	5566.4	3885.1	2192.9	1959.0	2001.4	2091.7	2057.5	2036.9	2026.0
6172.4	37.5°	6270.9	5745.6	3491.1	2000.0	1831.8	1931.6	1968.5	1861.8	1781.1	1741.5
6742.9	40°	6715.5	6008.2	3112.2	1850.9	1751.0	1871.4	1807.1	1678.5	1575.9	1519.8
7384.5	42.5°	7209.4	6283.2	2793.5	1738.7	1705.9	1822.2	1688.1	1534.9	1369.4	1351.6
8149.2	45°	7727.8	6566.4	2575.9	1652.5	1684.0	1779.8	1619.7	1372.1	1254.5	1327.0
8916.6	47.5°	8246.3	6826.3	2444.6	1588.2	1673.1	1731.9	1559.5	1281.8	1198.4	1303.7
9738.8	50°	8823.6	7058.9	2385.8	1541.7	1660.8	1712.7	1469.2	1258.6	1139.5	1209.3
10589.7	52.5°	9396.8	7239.4	2342.0	1495.2	1643.0	1697.7	1425.5	1231.2	1068.4	1072.5
11446.0	55°	9968.6	7357.1	2294.1	1433.7	1603.3	1664.9	1421.4	1201.1	1015.1	995.9
12351.7	57.5°	10578.7	7424.1	2235.3	1365.3	1534.9	1581.4	1417.2	1177.8	998.6	967.2
13277.8	60°	11199.8	7522.6	2158.7	1281.8	1443.2	1481.5	1407.7	1169.6	989.1	935.7
14150.6	62.5°	11756.6	7556.8	2067.0	1202.5	1325.6	1383.0	1387.2	1162.8	963.1	871.4
14875.6	65°	12121.8	7409.1	1907.0	1112.2	1198.4	1281.8	1347.5	1139.5	916.6	824.9
15234.0	67.5°	12106.8	6987.7	1656.6	995.9	1075.2	1169.6	1290.0	1099.9	860.5	767.4
14963.2	70°	11543.2	6156.0	1339.3	860.5	939.8	1049.3	1216.2	1041.0	793.4	704.5
13305.2	72.5°	9900.2	4818.1	972.6	701.8	782.5	924.8	1120.4	969.9	725.0	648.4
9833.2	75°	7072.6	3049.3	659.4	539.0	608.8	783.9	1001.4	886.5	662.1	651.2
4924.8	77.5°	3612.9	1456.9	436.4	394.0	424.1	618.3	841.3	792.1	671.7	537.6
1400.8	80°	1175.1	537.6	275.0	268.1	281.8	411.8	651.2	649.8	508.9	365.3
339.3	82.5°	374.8	231.2	179.2	172.4	165.5	258.6	454.2	514.4	343.4	231.2
121.8	85°	149.1	138.2	105.3	97.1	69.8	121.8	238.0	342.0	255.8	166.9
31.5	87.5°	54.7	54.7	28.7	20.5	15.0	41.0	64.3	102.6	146.4	86.2
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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180°
3726.4
4015.1
4153.2
4125.9
3917.9
3580.1
3239.4
2985.0
2835.9
2777.0
2742.8
2708.6
2597.8
2344.7
2036.9
1751.0
1524.0
1369.4
1365.3
1353.0
1261.3
1101.2
1009.6
971.3
939.8
871.4
824.9
771.6
712.7
644.3
614.2
478.8
322.8
229.8
171.0
84.8
0.0

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