

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: P953854

Luminaire Tested: **GALN-SB7B-740-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-740-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

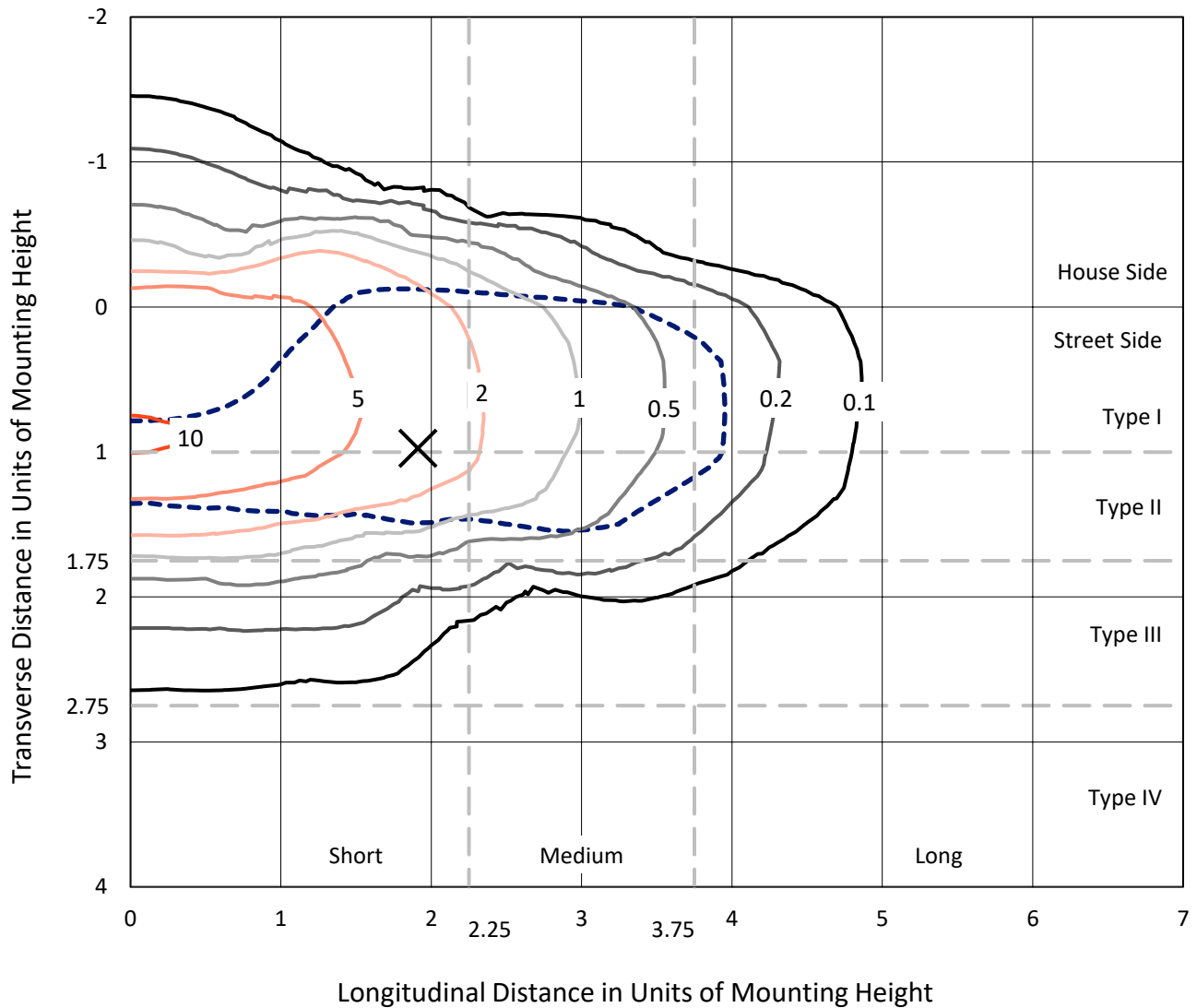
Lumens per Lamp: N/A  
Luminaire Lumens: 32379 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

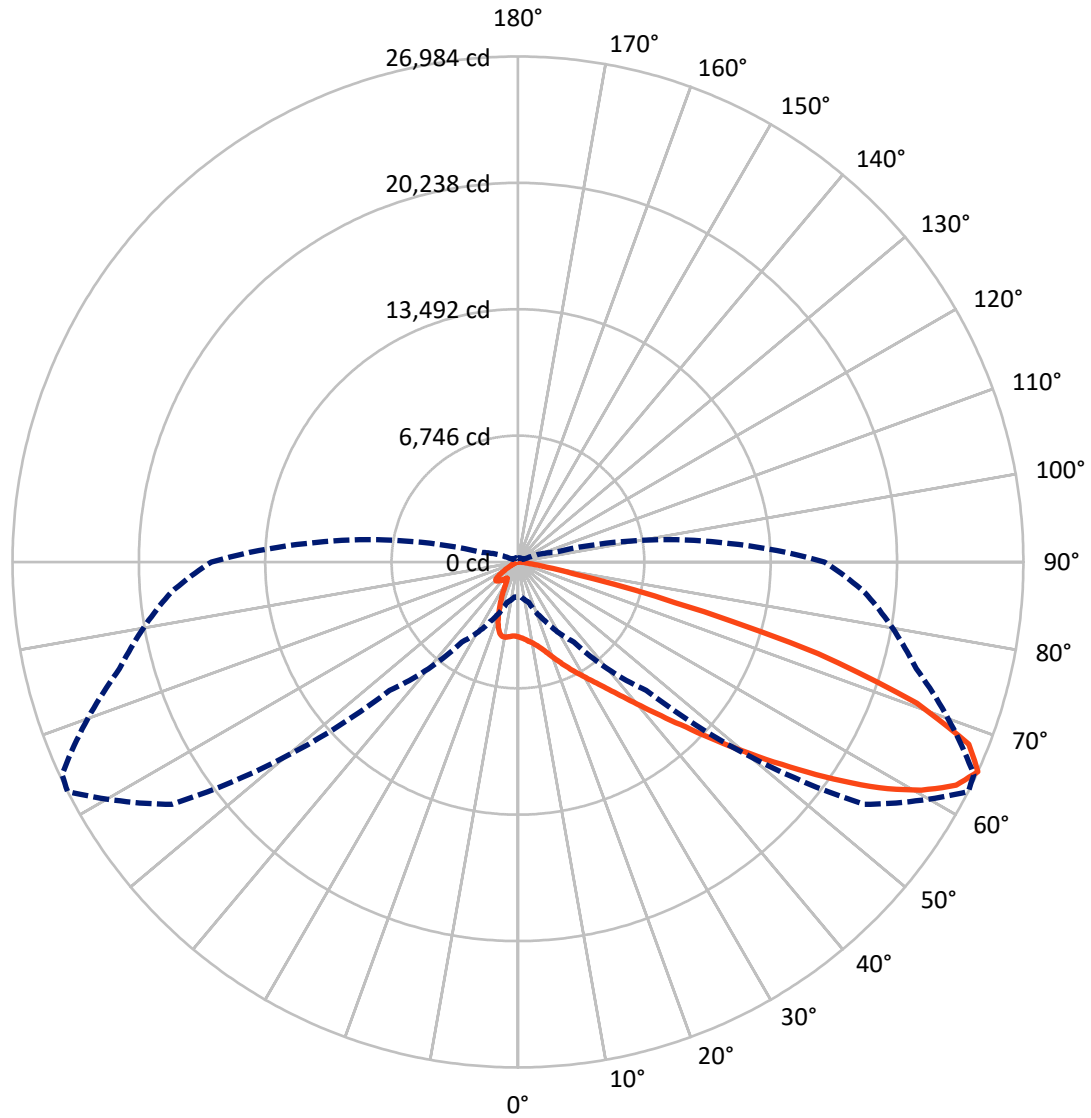
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4759.5	0.0	4759.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	27619.5	0.0	27619.5
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	32379.0	0.0	32379.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	376.5	1.2
10°-20°	1044.7	3.2
20°-30°	1819.1	5.6
30°-40°	3278.7	10.1
40°-50°	6502.7	20.1
50°-60°	8857.7	27.4
60°-70°	7070.2	21.8
70°-80°	3199.4	9.9
80°-90°	230.0	0.7
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°	32379.0	100.0
0°-180°	32379.0	100.0

**Coefficient of Utilization**



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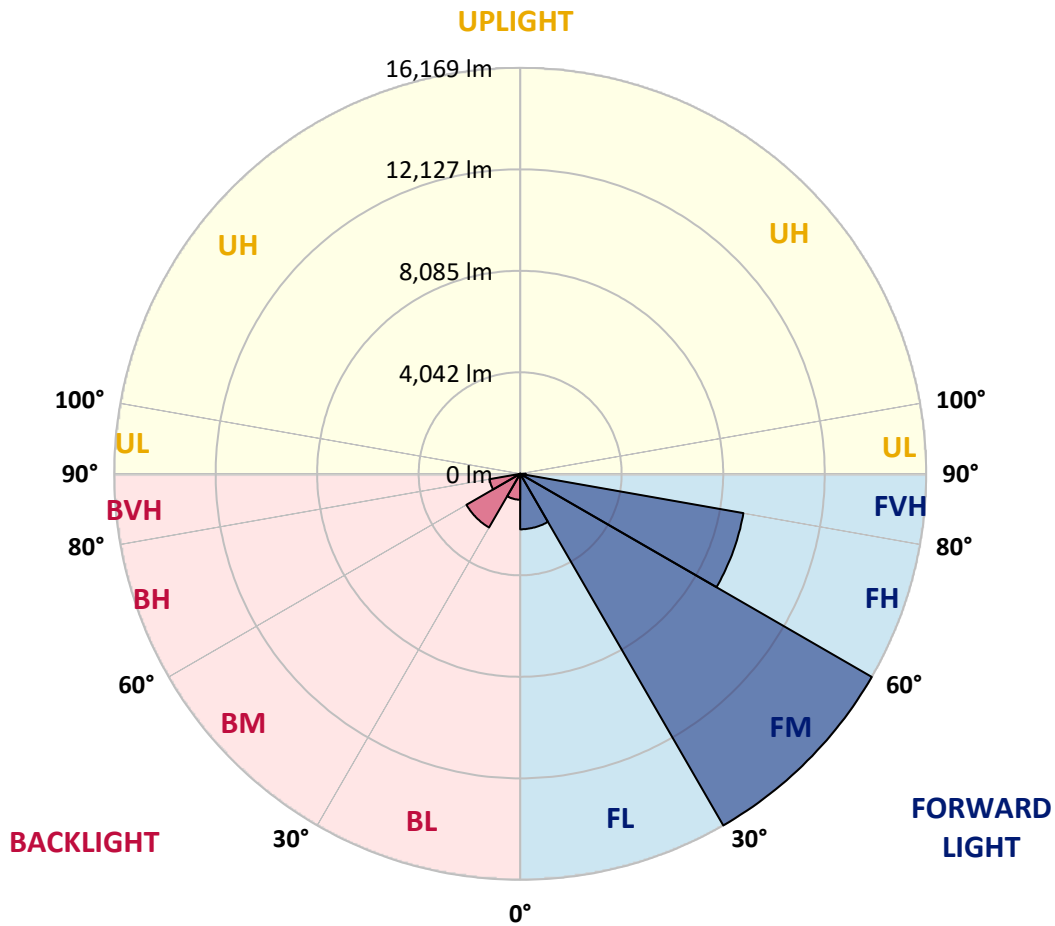
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2210.3	6.8			
FM (30°-60°)	16169.3	49.9			
FH (60°-80°)	9027.1	27.9			G4/12000
FVH (80°-90°)	212.9	0.7			G2/225
BL (0°-30°)	1030.0	3.2	B3/2500		
BM (30°-60°)	2469.9	7.6	B2/2500		
BH (60°-80°)	1242.5	3.8	B3/2500		G3/2500
BVH (80°-90°)	17.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3996.2	3996.2	3996.2	3996.2	3996.2	3996.2	3996.2	3996.2	3996.2	3996.2
2.5°	4089.7	4078.6	4094.2	4087.5	4083.1	4074.1	4069.7	4065.2	4056.3	4049.6
5°	4100.9	4094.2	4109.8	4123.1	4136.5	4149.9	4156.6	4165.5	4156.6	4138.7
7.5°	4007.3	4002.9	4036.3	4076.4	4136.5	4187.7	4243.4	4274.6	4276.8	4270.2
10°	4000.6	3989.5	4022.9	4071.9	4149.9	4241.2	4339.2	4406.0	4415.0	4443.9
12.5°	4105.3	4094.2	4141.0	4194.4	4274.6	4370.4	4490.7	4584.2	4597.6	4637.7
15°	4281.3	4265.7	4319.2	4388.2	4490.7	4599.8	4726.8	4811.5	4822.6	4871.6
17.5°	4486.2	4470.6	4533.0	4606.5	4717.9	4867.1	5014.2	5107.7	5121.1	5152.3
20°	4749.1	4729.0	4778.0	4844.9	4962.9	5141.1	5317.1	5450.8	5448.5	5448.5
22.5°	5054.3	5023.1	5065.4	5118.9	5230.2	5446.3	5680.2	5838.3	5838.3	5776.0
25°	5381.7	5350.5	5397.3	5446.3	5544.3	5789.3	6063.3	6259.3	6268.3	6161.3
27.5°	5791.6	5751.5	5787.1	5845.0	5902.9	6152.4	6477.6	6704.9	6709.3	6544.5
30°	6580.1	6466.5	6355.1	6292.8	6319.5	6566.7	6914.2	7165.9	7188.2	6961.0
32.5°	8023.5	8001.3	7609.2	7096.9	6829.6	7012.2	7402.1	7705.0	7718.4	7426.6
35°	10266.7	10239.9	9609.5	8633.9	7762.9	7609.2	7994.6	8353.2	8344.3	8014.6
37.5°	12944.1	12919.6	12088.8	10783.4	9373.4	8511.4	8758.6	9135.1	9190.8	8758.6
40°	15231.8	15140.5	14614.8	13356.2	11511.9	10008.3	9845.7	10095.1	10153.1	9640.7
42.5°	16964.8	16886.9	16619.6	15833.2	14100.2	12222.4	11126.5	11222.3	11286.9	10672.1
45°	17862.5	17844.7	17951.6	17878.1	16737.6	14940.0	12957.5	12558.8	12583.3	11814.8
47.5°	17989.5	17980.6	18468.4	19158.9	19005.2	18005.1	15307.6	14225.0	14138.1	13104.5
50°	17241.0	17223.2	18158.8	19453.0	20520.0	20580.1	17976.1	16102.8	15911.2	14438.8
52.5°	14850.9	14846.5	16383.4	18537.5	21052.3	22834.4	20613.5	18165.5	17844.7	15851.1
55°	11427.2	11509.6	13271.6	15817.7	20081.1	23919.2	22981.4	20455.4	19963.1	17272.2
57.5°	8094.8	8215.1	9957.0	12224.7	17069.5	23277.6	24583.0	22749.7	22219.6	18688.9
60°	4348.1	4455.1	6199.2	8905.6	12699.1	20885.3	25427.2	24741.1	24239.9	20034.4
62.5°	2590.6	2626.3	3348.0	5749.2	8589.3	15955.8	25068.6	26258.1	25846.0	21163.7
65°	1860.0	1866.7	2229.8	3510.6	5214.6	9694.2	22553.7	26984.2	26857.3	22014.6
67.5°	1566.0	1561.5	1713.0	2332.2	3552.9	4856.0	17285.6	25957.4	26496.4	22553.7
70°	1343.2	1349.9	1528.1	1708.5	2670.8	2748.8	8593.8	22600.5	23749.9	22696.3
72.5°	1000.2	1022.4	1187.3	1557.0	2015.9	1891.2	2967.1	16757.7	18836.0	21384.2
75°	706.1	717.3	835.3	1309.8	1503.6	1376.6	1514.7	8662.8	11327.0	16394.6
77.5°	543.5	563.6	632.6	915.5	1481.3	966.7	926.7	2998.2	4606.5	9903.6
80°	294.0	329.7	456.6	661.6	1040.3	683.9	458.9	1194.0	1561.5	4631.0
82.5°	151.5	169.3	318.5	476.7	592.5	597.0	227.2	496.7	643.8	1430.1
85°	60.1	73.5	213.8	262.8	305.2	294.0	102.5	200.5	231.7	396.5
87.5°	13.4	22.3	78.0	60.1	57.9	62.4	24.5	46.8	44.6	46.8
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°
3996.2	0°	3996.2	3996.2	3996.2	3996.2	3996.2	3996.2	3996.2	3996.2	3996.2	3996.2
4022.9	2.5°	4020.7	4011.8	3987.3	3960.5	3929.4	3911.5	3900.4	3898.2	3882.6	3871.4
4112.0	5°	4087.5	4078.6	4031.8	3976.1	3916.0	3869.2	3824.7	3784.6	3726.6	3715.5
4241.2	7.5°	4221.2	4196.7	4120.9	4045.2	3931.6	3795.7	3630.9	3441.5	3272.2	3221.0
4412.7	10°	4386.0	4352.6	4256.8	4123.1	3871.4	3501.7	3102.9	2733.2	2439.1	2356.7
4615.4	12.5°	4573.1	4544.2	4417.2	4169.9	3619.7	2949.2	2338.9	1880.0	1594.9	1523.6
4831.5	15°	4795.9	4753.5	4577.6	4098.6	3169.8	2240.9	1606.0	1334.3	1231.8	1218.5
5078.8	17.5°	5032.0	4962.9	4720.1	3842.5	2563.9	1592.7	1240.7	1162.8	1118.2	1104.9
5328.2	20°	5248.0	5158.9	4804.8	3454.9	1915.7	1240.7	1111.5	1060.3	1020.2	1004.6
5577.7	22.5°	5464.1	5337.2	4804.8	2927.0	1436.8	1100.4	1020.2	973.4	926.7	906.6
5845.0	25°	5689.1	5519.8	4720.1	2338.9	1156.1	1009.1	933.3	882.1	842.0	817.5
6099.0	27.5°	5907.4	5673.5	4526.3	1782.0	1029.1	928.9	853.1	804.1	766.3	748.4
6375.2	30°	6114.6	5825.0	4254.6	1352.1	946.7	850.9	779.6	737.3	699.4	681.6
6733.8	32.5°	6395.2	6016.5	3965.0	1109.3	875.4	777.4	712.8	672.7	639.3	625.9
7199.4	35°	6785.0	6299.4	3715.5	1089.3	815.3	717.3	652.7	614.8	581.4	570.2
7800.8	37.5°	7337.5	6756.1	3584.1	1222.9	766.3	663.8	603.7	563.6	532.4	523.5
8564.8	40°	8019.1	7375.3	3655.4	1356.6	732.9	617.0	559.1	519.0	492.3	481.1
9442.5	42.5°	8827.7	8139.4	4049.6	1459.0	710.6	576.9	516.8	472.2	454.4	450.0
10438.2	45°	9756.6	8979.2	4653.3	1568.2	674.9	539.1	474.5	441.1	427.7	425.5
11520.8	47.5°	10812.4	9901.3	5352.7	1704.1	639.3	503.4	441.1	418.8	407.6	403.2
12650.1	50°	11859.3	10830.2	6072.2	1779.8	610.3	470.0	414.3	396.5	387.6	385.4
13844.1	52.5°	12955.3	11785.8	6653.6	1708.5	585.8	443.3	392.0	378.7	369.8	367.5
14944.5	55°	14000.0	12558.8	6753.9	1450.1	536.8	416.5	367.5	360.9	349.7	349.7
16060.5	57.5°	14899.9	12946.4	6045.5	1064.8	487.8	376.5	343.0	336.4	327.4	325.2
17067.3	60°	15726.3	12835.0	4666.7	717.3	434.4	336.4	311.9	307.4	298.5	287.4
17942.7	62.5°	16191.9	12344.9	3192.0	467.8	380.9	294.0	276.2	274.0	253.9	231.7
18590.9	65°	16367.9	11338.1	1991.4	340.8	318.5	251.7	238.3	233.9	204.9	180.4
18958.5	67.5°	16214.2	9680.8	1004.6	269.5	251.7	209.4	196.0	196.0	176.0	153.7
18936.2	70°	15599.4	7257.3	423.2	216.1	193.8	160.4	160.4	169.3	149.2	124.7
17953.9	72.5°	14265.1	4882.7	225.0	164.8	144.8	113.6	131.4	138.1	118.1	93.6
14695.0	75°	11340.3	2978.2	155.9	122.5	91.3	80.2	100.2	104.7	80.2	62.4
10075.1	77.5°	7756.2	1710.7	104.7	78.0	57.9	46.8	69.1	64.6	42.3	29.0
3884.8	80°	3405.9	712.8	60.1	35.6	22.3	17.8	24.5	17.8	13.4	8.9
532.4	82.5°	398.7	167.1	22.3	13.4	8.9	4.5	2.2	0.0	0.0	0.0
162.6	85°	82.4	20.0	11.1	4.5	2.2	0.0	0.0	0.0	0.0	0.0
29.0	87.5°	15.6	4.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
3996.2
3882.6
3711.1
3196.5
2325.5
1503.6
1205.1
1098.2
995.7
895.5
808.6
748.4
683.9
625.9
570.2
521.2
478.9
450.0
423.2
403.2
385.4
367.5
347.5
323.0
285.1
227.2
178.2
151.5
122.5
93.6
60.1
31.2
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