

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: P948858

Luminaire Tested: **GALN-SB3D-740-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3D-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

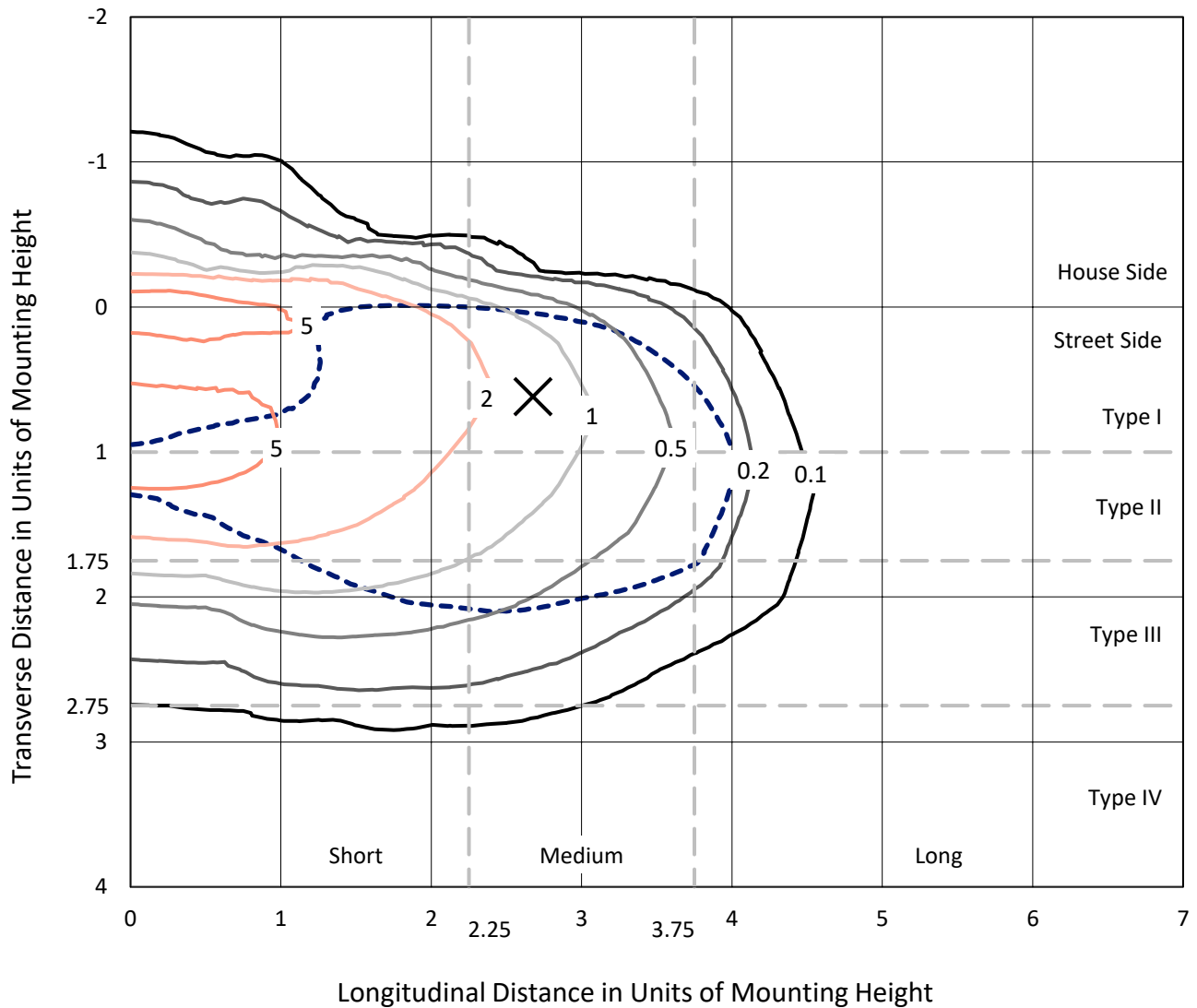
Lumens per Lamp: N/A  
Luminaire Lumens: 26892 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

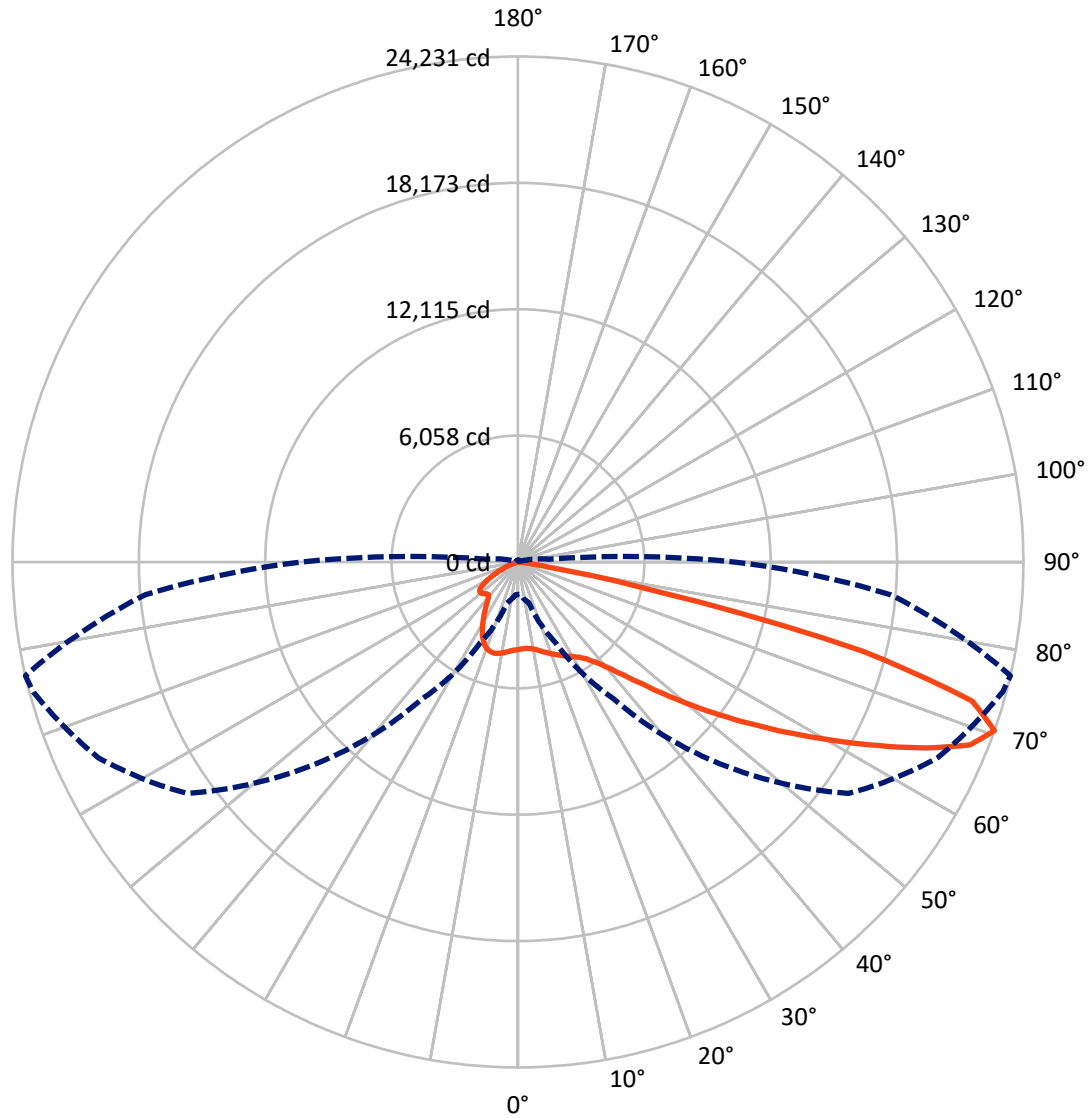
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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
<b>House Side</b>	Lumens	2834.8	0.0	2834.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	24057.2	0.0	24057.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	26892.0	0.0	26892.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.5	1.3
10°-20°	858.2	3.2
20°-30°	1327.4	4.9
30°-40°	2408.6	9.0
40°-50°	4546.5	16.9
50°-60°	6569.4	24.4
60°-70°	6992.9	26.0
70°-80°	3705.8	13.8
80°-90°	121.7	0.5
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°	26892.0	100.0
0°-180°	26892.0	100.0

**Coefficient of Utilization**



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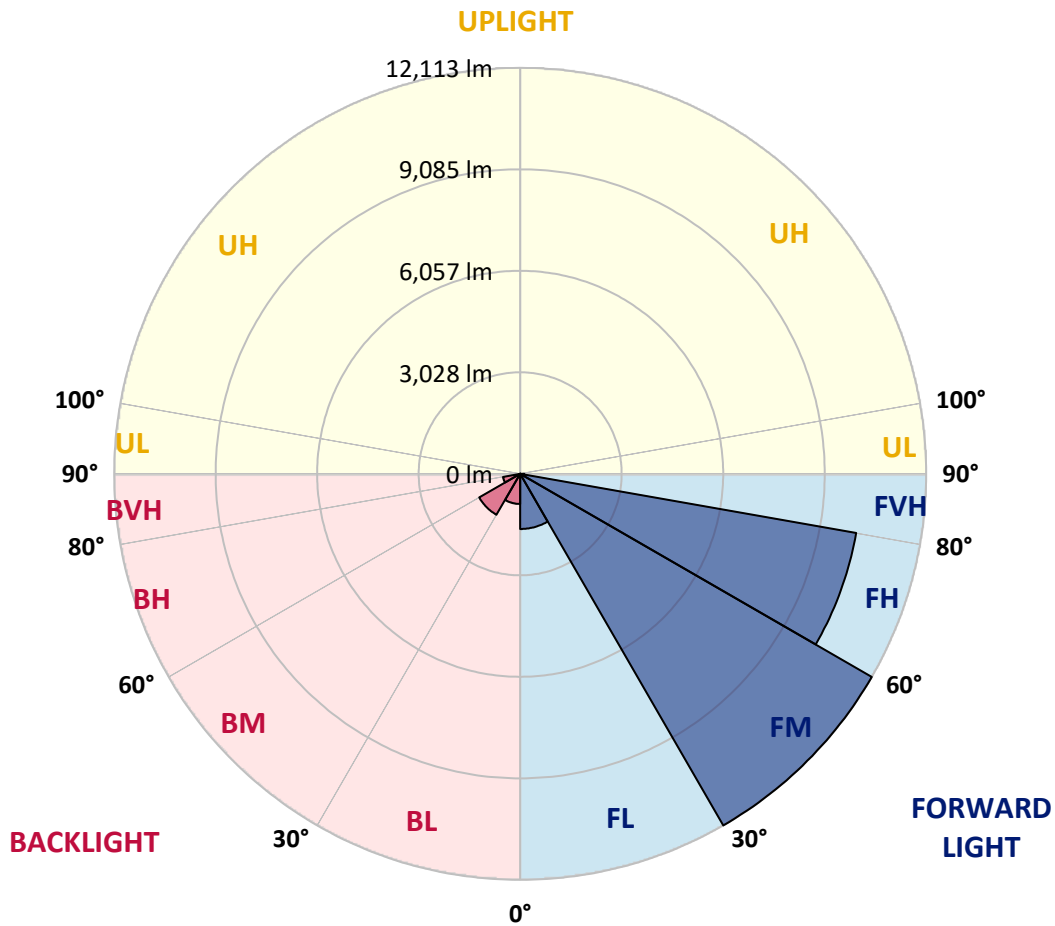
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1646.4	6.1			
FM (30°-60°)	12113.4	45.0			
FH (60°-80°)	10179.0	37.9			G4/12000
FVH (80°-90°)	118.4	0.4			G2/225
BL (0°-30°)	900.7	3.3	B2/1000		
BM (30°-60°)	1411.2	5.2	B2/2500		
BH (60°-80°)	519.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4194.7	4194.7	4194.7	4194.7	4194.7	4194.7	4194.7	4194.7	4194.7	4194.7
2.5°	3938.2	3973.9	3968.8	3992.6	4001.1	4035.0	4069.0	4114.8	4165.8	4164.1
5°	3715.8	3751.4	3759.9	3792.2	3832.9	3885.6	3955.2	4046.9	4142.0	4157.3
7.5°	3452.5	3489.9	3512.0	3576.5	3651.2	3759.9	3873.7	4007.9	4165.8	4187.9
10°	3189.3	3223.3	3252.1	3343.8	3462.7	3624.1	3809.2	4002.8	4215.0	4247.3
12.5°	3026.3	3058.5	3090.8	3170.6	3318.4	3515.4	3766.7	4026.5	4296.6	4342.4
15°	2968.5	2997.4	3022.9	3094.2	3231.8	3455.9	3758.2	4075.8	4400.2	4461.3
17.5°	2977.0	2992.3	3009.3	3063.6	3197.8	3428.8	3773.5	4160.7	4522.4	4576.8
20°	3026.3	3034.8	3036.5	3073.8	3192.7	3425.4	3804.1	4242.2	4637.9	4710.9
22.5°	3089.1	3092.5	3089.1	3114.6	3225.0	3450.8	3844.8	4340.7	4767.0	4834.9
25°	3382.9	3318.4	3236.9	3187.6	3279.3	3500.1	3906.0	4473.2	4907.9	4974.2
27.5°	4294.9	4109.8	3817.7	3489.9	3391.4	3571.4	3990.9	4607.3	5050.6	5110.0
30°	5775.7	5532.9	5037.0	4298.3	3751.4	3720.9	4101.3	4741.5	5201.7	5266.3
32.5°	7260.0	7200.6	6628.3	5605.9	4561.5	4053.7	4284.7	4923.2	5402.1	5453.1
35°	8761.2	8640.7	8172.0	7161.5	5809.7	4731.3	4590.4	5161.0	5665.3	5723.1
37.5°	9911.0	9837.9	9547.5	8715.4	7290.6	5777.4	5113.4	5529.5	6047.5	6112.0
40°	10926.5	10892.5	10794.0	10245.5	8946.4	7146.2	5926.9	6100.1	6577.3	6653.7
42.5°	11724.7	11804.5	11860.5	11707.7	10653.1	8708.6	7020.5	6901.7	7316.0	7394.2
45°	12541.5	12568.7	12794.6	13015.4	12347.9	10342.3	8253.5	7840.8	8234.8	8331.6
47.5°	13066.3	13175.0	13572.4	13961.3	13772.8	11962.4	9578.1	8949.8	9299.6	9481.3
50°	13105.4	13310.8	13857.7	14535.3	14810.4	13504.4	11018.2	10213.2	10585.2	10785.6
52.5°	12454.9	12774.2	13621.6	14613.4	15370.8	14810.4	12507.6	11476.7	11953.9	12215.5
55°	9549.2	9967.0	12733.4	14188.8	15392.9	15800.5	13957.9	12792.9	13479.0	13774.5
57.5°	8319.7	8530.3	10011.2	13451.8	14983.6	16199.6	15268.9	14046.2	15138.2	15505.0
60°	6922.0	7198.9	8396.1	12246.0	14428.3	16238.6	16427.1	15662.9	16936.6	17349.3
62.5°	4704.1	5004.7	6195.2	10174.2	13669.2	16219.9	17376.4	17327.2	18935.4	19378.7
65°	2914.2	3102.7	3887.3	8307.8	12607.8	16240.3	18369.9	19348.1	21044.7	21494.7
67.5°	2302.8	2389.4	2798.7	6378.6	10778.8	15781.8	19361.7	21248.4	23029.9	23386.5
70°	1547.1	1599.7	2036.2	4276.2	8019.1	13665.8	19343.0	22202.9	24052.3	24230.6
72.5°	815.2	855.9	1190.5	1980.2	4843.4	9714.0	16304.9	21061.6	23035.0	22766.7
75°	407.6	475.5	801.6	1005.4	2068.5	5417.4	10124.9	16605.4	18130.5	17091.1
77.5°	309.1	373.6	662.3	662.3	720.1	1823.9	4288.1	9056.7	8353.7	6956.0
80°	197.0	254.7	579.1	501.0	300.6	463.6	1117.4	2537.2	1774.7	1350.1
82.5°	115.5	166.4	482.3	331.2	168.1	171.5	315.9	540.0	460.2	358.3
85°	45.9	108.7	331.2	130.8	66.2	42.5	95.1	115.5	95.1	71.3
87.5°	0.0	25.5	57.7	0.0	5.1	3.4	6.8	8.5	8.5	6.8
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°
4194.7	0°	4194.7	4194.7	4194.7	4194.7	4194.7	4194.7	4194.7	4194.7	4194.7	4194.7
4198.1	2.5°	4213.3	4216.7	4226.9	4228.6	4204.9	4174.3	4162.4	4157.3	4136.9	4135.2
4225.2	5°	4264.3	4279.6	4264.3	4220.1	4114.8	3967.1	3855.0	3763.3	3680.1	3654.6
4318.6	7.5°	4366.2	4381.5	4335.6	4162.4	3897.5	3603.7	3338.8	3151.9	2983.8	2921.0
4432.4	10°	4512.2	4532.6	4388.3	4038.4	3569.7	3097.6	2649.3	2333.4	2087.1	1986.9
4587.0	12.5°	4695.6	4704.1	4417.1	3849.9	3143.5	2469.2	1834.1	1496.2	1277.1	1195.6
4773.8	15°	4897.7	4885.9	4420.5	3593.5	2562.7	1745.8	1197.3	983.3	895.0	867.8
4960.6	17.5°	5110.0	5060.8	4352.6	3223.3	1925.8	1193.9	888.2	837.2	822.0	815.2
5145.7	20°	5318.9	5208.5	4228.6	2739.3	1382.4	891.6	806.7	791.4	782.9	779.5
5332.5	22.5°	5509.1	5320.6	4016.4	2177.2	1003.7	788.0	762.5	748.9	733.6	726.8
5514.2	25°	5694.2	5385.1	3717.5	1652.4	803.3	737.0	716.7	691.2	670.8	662.3
5709.5	27.5°	5874.2	5425.9	3343.8	1222.7	716.7	689.5	652.1	616.5	601.2	597.8
5918.4	30°	6066.1	5439.5	2919.3	912.0	664.0	630.0	575.7	534.9	526.5	528.2
6200.3	32.5°	6300.5	5459.9	2491.3	747.2	619.9	558.7	494.2	451.7	444.9	451.7
6611.3	35°	6580.7	5500.6	2078.7	687.8	580.8	485.7	416.1	380.4	373.6	378.7
7137.7	37.5°	6961.1	5566.8	1693.2	675.9	548.5	424.6	349.8	321.0	321.0	322.7
7783.1	40°	7467.2	5743.5	1348.4	667.4	531.6	378.7	295.5	283.6	288.7	292.1
8605.0	42.5°	8083.6	6118.8	1115.7	657.2	512.9	358.3	268.3	263.2	271.7	275.1
9590.0	45°	8774.8	6594.3	1034.2	640.2	495.9	371.9	256.4	249.6	259.8	261.5
10693.9	47.5°	9489.8	7059.6	1024.0	621.6	478.9	392.3	253.0	237.8	249.6	251.3
11872.4	50°	10213.2	7363.6	1034.2	592.7	451.7	392.3	254.7	225.9	236.1	241.2
13095.2	52.5°	10941.8	7502.8	1027.4	529.9	404.2	368.5	254.7	215.7	225.9	229.3
14416.4	55°	11648.3	7475.7	923.8	436.4	343.0	326.1	247.9	207.2	214.0	215.7
15664.6	57.5°	12207.0	7097.0	731.9	339.6	278.5	271.7	225.9	197.0	202.1	200.4
16809.2	60°	12499.1	6264.8	523.1	261.5	219.1	214.0	198.7	183.4	186.8	178.3
17778.9	62.5°	12502.5	5164.4	349.8	207.2	174.9	169.8	169.8	164.7	161.3	144.4
18529.6	65°	12235.9	3943.3	232.7	164.7	141.0	132.5	142.7	141.0	129.1	105.3
18758.8	67.5°	11631.3	2584.7	176.6	129.1	108.7	103.6	113.8	118.9	110.4	88.3
17923.3	70°	10388.2	1504.6	146.0	100.2	81.5	76.4	91.7	101.9	91.7	71.3
15319.9	72.5°	8628.8	811.8	118.9	74.7	56.0	50.9	73.0	83.2	73.0	52.6
9829.4	75°	5599.1	434.8	91.7	49.2	28.9	32.3	54.3	61.1	50.9	34.0
2885.3	77.5°	1880.0	191.9	57.7	23.8	13.6	13.6	32.3	37.4	23.8	11.9
524.8	80°	419.5	79.8	23.8	10.2	5.1	5.1	6.8	6.8	3.4	0.0
161.3	82.5°	137.6	32.3	10.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0
40.8	85°	52.6	11.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.6	87.5°	20.4	1.7	0.0	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>
4194.7
4138.6
3639.3
2895.5
1944.5
1170.1
867.8
813.5
776.1
725.2
658.9
594.4
528.2
450.0
377.0
321.0
292.1
275.1
263.2
253.0
242.8
229.3
215.7
200.4
176.6
139.3
101.9
86.6
67.9
50.9
30.6
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