

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: P942662

Luminaire Tested: **GALN-SB6D-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64715 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

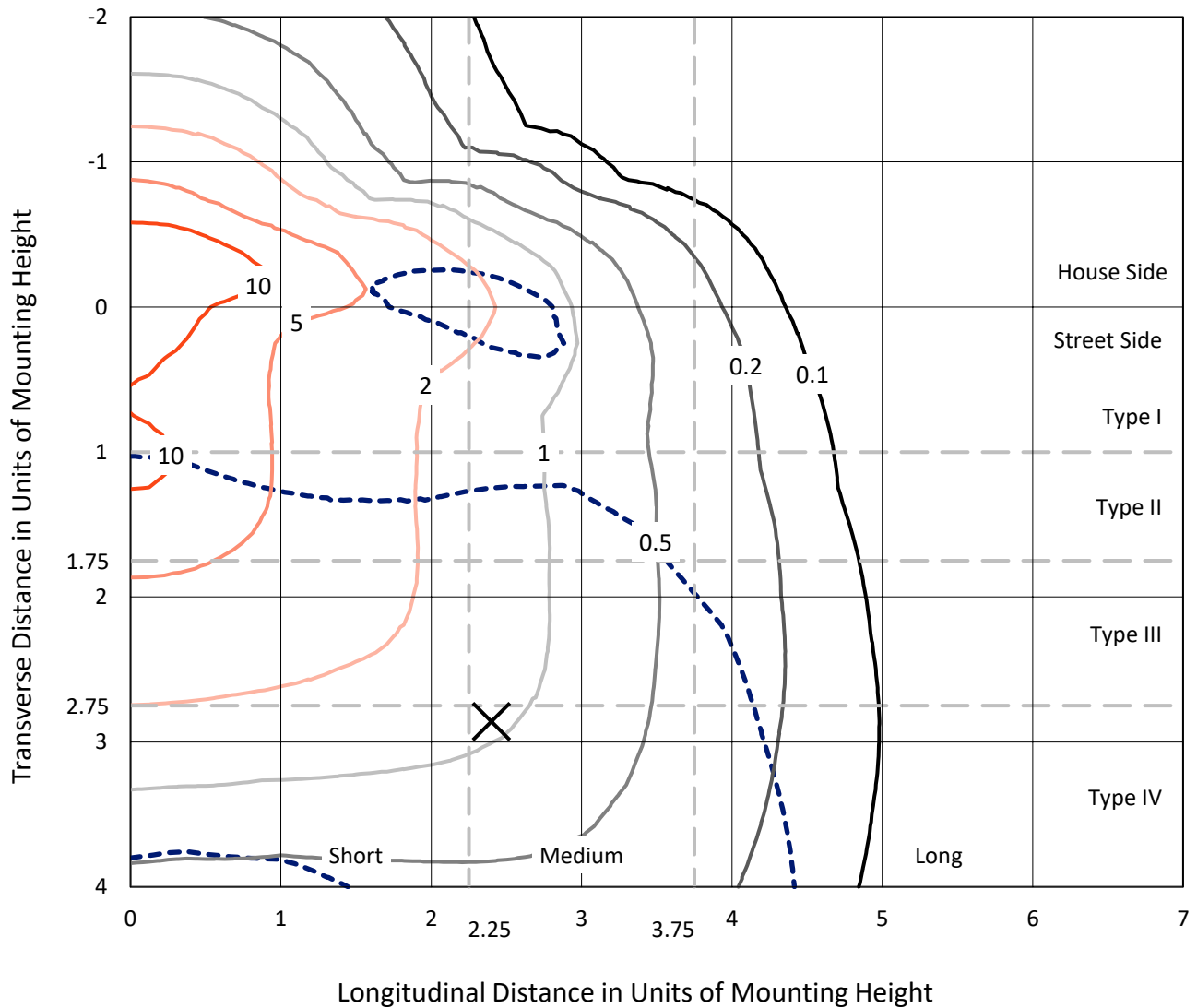
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

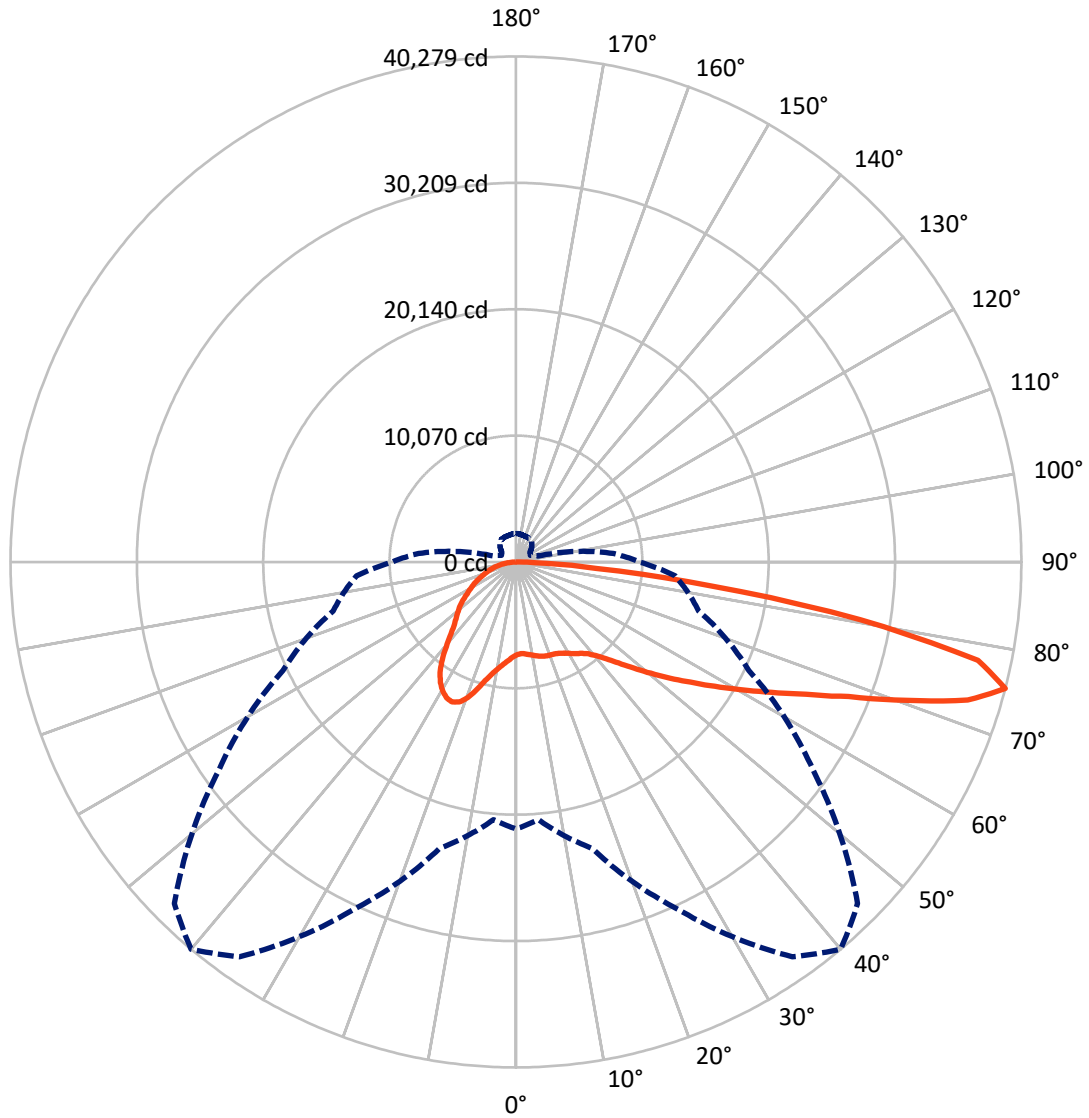
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20050.9	0.0	20050.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	44664.1	0.0	44664.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	64715.0	0.0	64715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	738.7	1.1
10°-20°	2480.1	3.8
20°-30°	4528.5	7.0
30°-40°	6422.6	9.9
40°-50°	8672.5	13.4
50°-60°	11666.8	18.0
60°-70°	14807.8	22.9
70°-80°	13439.0	20.8
80°-90°	1959.0	3.0
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°	64715.0	100.0
0°-180°	64715.0	100.0

Coefficient of Utilization



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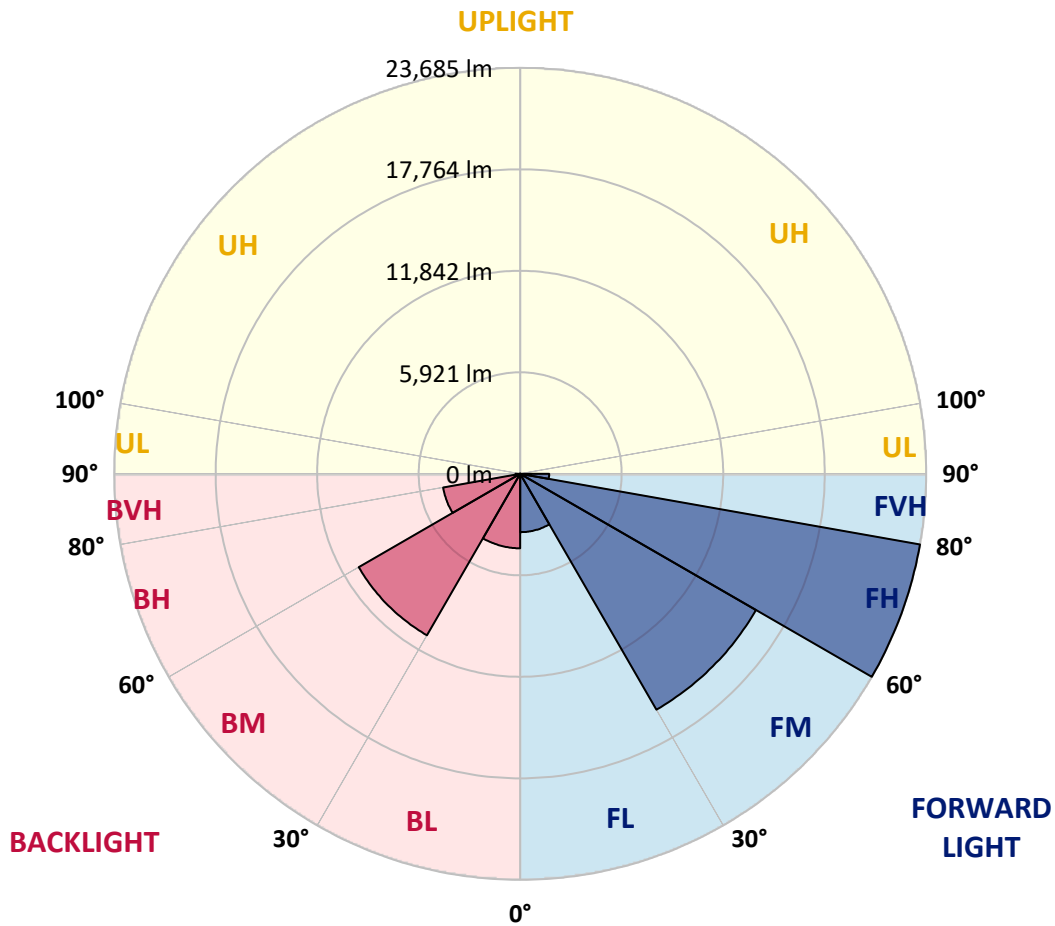
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3404.1	5.3			
FM (30°-60°)	15886.1	24.5			
FH (60°-80°)	23684.7	36.6			G5
FVH (80°-90°)	1689.3	2.6			G5
BL (0°-30°)	4343.2	6.7	B4/5000		
BM (30°-60°)	10875.8	16.8	B5		
BH (60°-80°)	4562.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	269.7	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	7400.2	7400.2	7400.2	7400.2	7400.2	7400.2	7400.2	7400.2	7400.2	7400.2
2.5°	7287.0	7328.2	7317.9	7304.1	7304.1	7307.6	7304.1	7328.2	7352.2	7376.2
5°	7362.5	7403.7	7383.1	7365.9	7352.2	7348.8	7338.5	7335.0	7348.8	7379.7
7.5°	7510.1	7551.3	7520.4	7489.5	7462.0	7448.3	7434.6	7414.0	7403.7	7420.8
10°	7674.8	7716.0	7678.3	7623.4	7578.7	7561.6	7547.8	7527.2	7513.5	7523.8
12.5°	7839.6	7880.8	7829.3	7753.8	7695.4	7685.1	7668.0	7661.1	7657.7	7654.2
15°	7994.1	8028.4	7963.2	7873.9	7812.1	7795.0	7777.8	7788.1	7805.3	7825.9
17.5°	8114.2	8148.5	8052.4	7935.7	7877.3	7870.5	7860.2	7894.5	7942.6	7994.1
20°	8224.0	8258.3	8134.8	7976.9	7908.2	7908.2	7911.7	7983.8	8052.4	8127.9
22.5°	8378.5	8405.9	8254.9	8038.7	7939.1	7946.0	7973.5	8045.5	8131.3	8234.3
25°	8608.4	8629.0	8443.7	8155.4	8042.1	8062.7	8086.7	8121.0	8203.4	8323.6
27.5°	8979.1	8996.3	8752.6	8361.3	8189.7	8224.0	8258.3	8234.3	8272.1	8375.0
30°	9500.9	9511.2	9202.3	8684.0	8440.3	8457.4	8464.3	8364.7	8292.7	8375.0
32.5°	10118.7	10115.3	9748.0	9075.3	8725.2	8708.0	8649.6	8454.0	8285.8	8357.9
35°	11076.3	11038.6	10564.9	9624.4	9047.8	8941.4	8804.1	8553.5	8320.1	8340.7
37.5°	12662.1	12545.4	11889.8	10523.7	9528.3	9257.2	9054.7	8714.9	8395.6	8333.9
40°	14450.4	14302.8	13582.0	11756.0	10249.1	9813.2	9487.1	8944.8	8519.2	8364.7
42.5°	16571.6	16362.2	15586.5	13207.9	11162.2	10530.6	10039.8	9236.6	8701.1	8464.3
45°	19176.8	18898.8	17800.4	14845.1	12312.0	11471.1	10815.5	9679.4	8979.1	8656.5
47.5°	21809.4	21878.1	20316.4	16719.2	13691.8	12631.2	11786.8	10345.2	9384.2	8965.4
50°	24606.8	24654.9	22818.6	18795.8	15257.0	13942.4	12878.4	11090.1	9947.1	9404.8
52.5°	26789.9	26796.7	25090.8	20968.5	16887.4	15384.0	14055.7	11941.3	10599.2	9988.3
55°	28155.9	28138.8	26683.4	23024.5	18761.5	16897.7	15360.0	12909.2	11395.6	10674.8
57.5°	29147.9	29096.4	27781.8	24792.2	20759.1	18686.0	16835.9	14007.6	12336.0	11491.7
60°	29525.5	29494.6	28526.6	26319.6	22859.8	20663.0	18538.4	15236.4	13403.5	12456.2
62.5°	29669.6	29728.0	29257.7	27799.0	25108.0	22852.9	20409.0	16705.5	14604.8	13547.7
65°	30177.6	30284.0	30187.9	29734.8	27648.0	25416.9	22890.7	18452.6	15916.0	14718.1
67.5°	31183.3	31289.7	31330.9	32051.7	30750.8	28612.5	25986.7	20628.7	17450.3	15933.2
70°	31159.3	31128.4	31856.1	33894.9	34636.3	33036.8	30160.5	23306.0	19279.8	16942.3
72.5°	28361.9	28114.8	29834.4	33874.3	37869.6	37656.8	35257.6	26759.0	20858.7	17065.9
75°	21277.4	20618.4	23656.1	30527.7	38408.5	40279.2	38497.8	28900.8	20484.5	15078.5
77.5°	9099.3	8436.8	12016.8	22598.9	34375.4	37653.4	35525.3	25214.4	16351.9	9971.1
80°	2382.1	2378.7	3631.5	10245.7	23378.1	27805.8	24394.0	16283.3	9343.0	3562.8
82.5°	985.1	961.1	1335.2	3985.0	11423.0	15603.7	12734.2	7263.0	3374.0	964.5
85°	367.3	363.8	648.7	1376.4	4029.6	6435.7	4657.8	1856.9	840.9	470.2
87.5°	103.0	99.5	140.7	477.1	981.7	1489.7	796.3	305.5	236.8	185.3
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°
7400.2	0°	7400.2	7400.2	7400.2	7400.2	7400.2	7400.2	7400.2	7400.2	7400.2	7400.2
7414.0	2.5°	7424.3	7441.4	7472.3	7496.4	7527.2	7561.6	7609.6	7640.5	7671.4	7692.0
7431.1	5°	7455.2	7492.9	7571.9	7650.8	7743.5	7829.3	7928.8	8000.9	8059.3	8076.4
7492.9	7.5°	7523.8	7585.6	7719.5	7853.3	8000.9	8141.6	8285.8	8409.4	8508.9	8546.7
7602.8	10°	7643.9	7726.3	7915.1	8103.9	8299.5	8515.8	8701.1	8879.6	9020.3	9078.7
7733.2	12.5°	7795.0	7897.9	8145.1	8405.9	8677.1	8975.7	9216.0	9435.7	9610.7	9689.7
7915.1	15°	7990.6	8124.5	8440.3	8790.4	9188.5	9603.8	9909.3	10153.0	10348.7	10444.8
8103.9	17.5°	8203.4	8381.9	8780.1	9308.7	9878.4	10424.2	10781.2	10959.6	11162.2	11254.8
8278.9	20°	8409.4	8629.0	9198.8	9967.7	10726.2	11306.3	11594.6	11642.7	11656.4	11666.7
8443.7	22.5°	8622.2	8917.4	9724.0	10798.3	11611.8	12013.4	12054.6	11848.6	11560.3	11426.4
8605.0	25°	8855.6	9246.9	10410.5	11714.8	12373.8	12421.8	12106.1	11604.9	11059.2	10808.6
8735.4	27.5°	9082.1	9627.9	11234.2	12590.0	12923.0	12500.8	11821.2	11110.7	10451.6	10187.4
8828.1	30°	9308.7	10063.8	12143.8	13355.5	13173.5	12305.1	11371.5	10578.6	9916.2	9638.2
8910.5	32.5°	9538.6	10571.8	13190.7	13908.1	13128.9	11889.8	10812.0	9981.4	9397.9	9106.1
8982.6	35°	9799.5	11196.5	14182.7	14210.1	12830.3	11278.9	10074.1	9267.5	8759.5	8526.1
9068.4	37.5°	10139.3	11989.4	15057.9	14285.6	12308.6	10383.0	9157.6	8423.1	8004.3	7897.9
9195.4	40°	10561.5	12943.6	15727.2	14165.5	11536.3	9294.9	8155.4	7568.4	7331.6	7355.6
9367.0	42.5°	11110.7	14011.0	16197.5	13856.6	10461.9	8172.5	7276.7	7015.8	7129.1	7225.2
9624.4	45°	11824.6	15119.7	16489.2	13331.4	9246.9	7221.8	6758.4	6820.2	6906.0	6916.3
10039.8	47.5°	12737.6	16242.1	16681.4	12538.5	8007.8	6552.4	6428.9	6442.6	6425.4	6353.4
10661.0	50°	13877.2	17333.6	16853.1	11488.2	6954.0	6133.7	5968.9	5920.9	5684.0	5450.6
11488.2	52.5°	15174.6	18335.9	16925.1	10183.9	6133.7	5783.6	5515.9	5213.8	4771.0	4699.0
12528.2	55°	16616.2	19262.6	16739.8	8581.0	5443.8	5333.9	4928.9	4565.1	4517.0	4455.3
13897.8	57.5°	18339.3	20261.4	16362.2	6792.7	4736.7	4808.8	4414.1	4455.3	4369.4	4273.3
15658.6	60°	20223.7	21294.6	15699.8	5162.3	4005.6	4153.2	4280.2	4276.8	4252.7	4173.8
17515.5	62.5°	21919.3	21974.2	14395.5	3954.1	3363.7	3645.2	3991.9	3988.4	3967.9	3923.2
19454.8	65°	22928.4	21871.2	12219.3	3113.2	2835.2	3226.5	3600.6	3628.0	3631.5	3628.0
20913.6	67.5°	22749.9	20666.5	9233.1	2478.2	2399.2	2800.8	3212.7	3250.5	3277.9	3284.8
21098.9	70°	20731.7	18020.1	6020.4	1977.1	2011.4	2426.7	2845.5	2883.2	2907.2	2934.7
18308.4	72.5°	16159.7	13249.0	3446.1	1599.5	1671.6	2104.1	2481.6	2526.2	2540.0	2591.5
12741.1	75°	9847.5	7791.5	1860.4	1259.7	1373.0	1798.6	2121.2	2172.7	2196.7	2258.5
6257.3	77.5°	4681.8	3374.0	1060.6	981.7	1105.2	1469.1	1791.7	1850.1	1784.8	1819.2
1726.5	80°	1582.3	1252.8	669.3	748.3	844.4	1146.4	1434.7	1493.1	1355.8	1348.9
573.2	82.5°	552.6	508.0	425.6	497.7	545.8	820.3	1084.6	1160.1	1009.1	1005.7
257.4	85°	216.2	205.9	236.8	271.2	326.1	504.6	713.9	751.7	621.3	501.1
75.5	87.5°	44.6	48.1	58.4	61.8	99.5	175.1	257.4	315.8	250.6	212.8
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°
7400.2
7678.3
8083.3
8550.1
9082.1
9689.7
10437.9
11251.4
11694.2
11464.2
10846.4
10218.2
9669.1
9143.9
8577.6
7973.5
7438.0
7314.4
6984.9
6408.3
5481.5
4723.0
4465.5
4256.2
4146.3
3906.1
3628.0
3291.7
2948.4
2612.1
2265.4
1791.7
1335.2
957.6
494.3
195.6
0.0

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