

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: P943914

Luminaire Tested: **GALN-SB8C-840-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42298 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

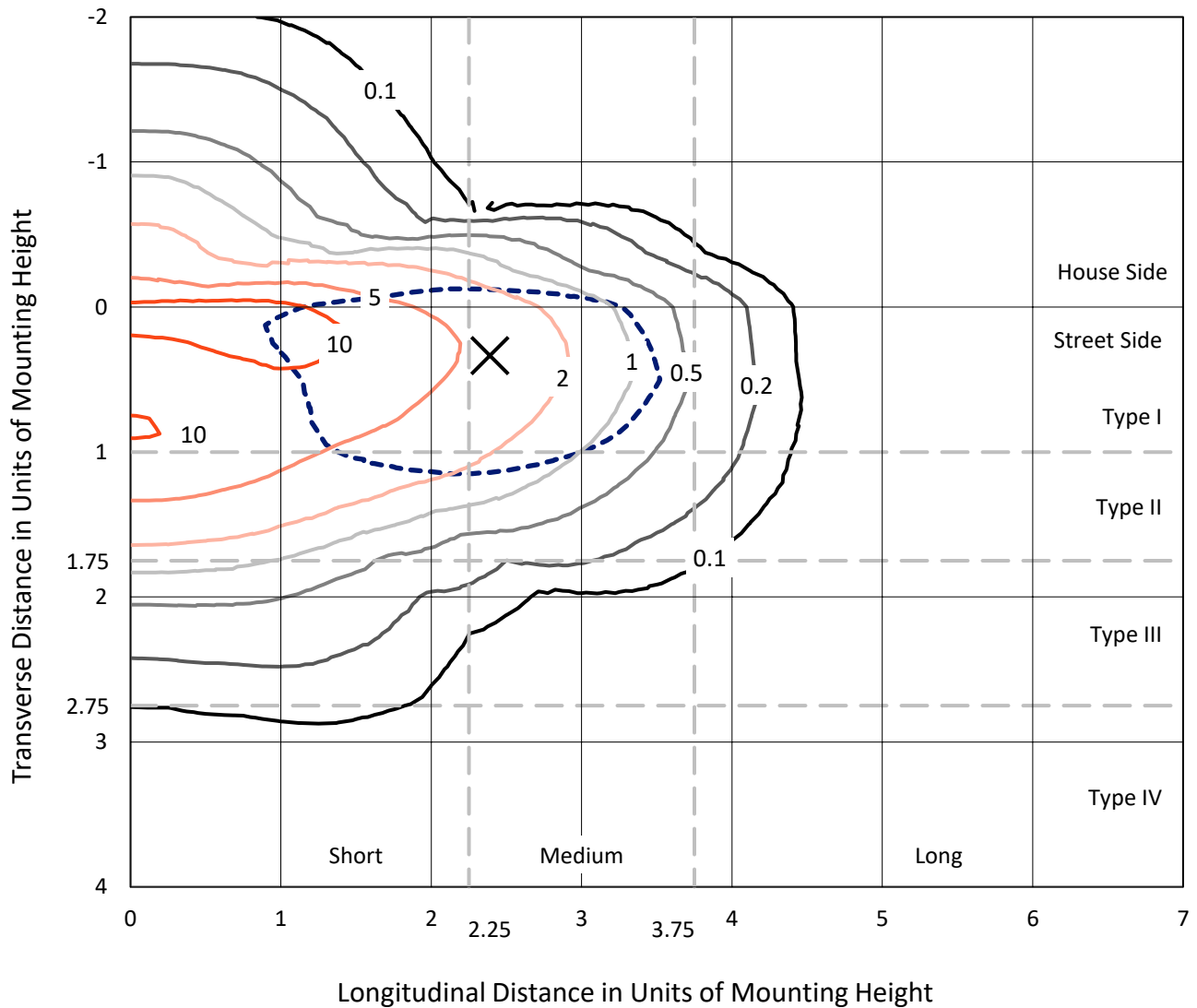
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

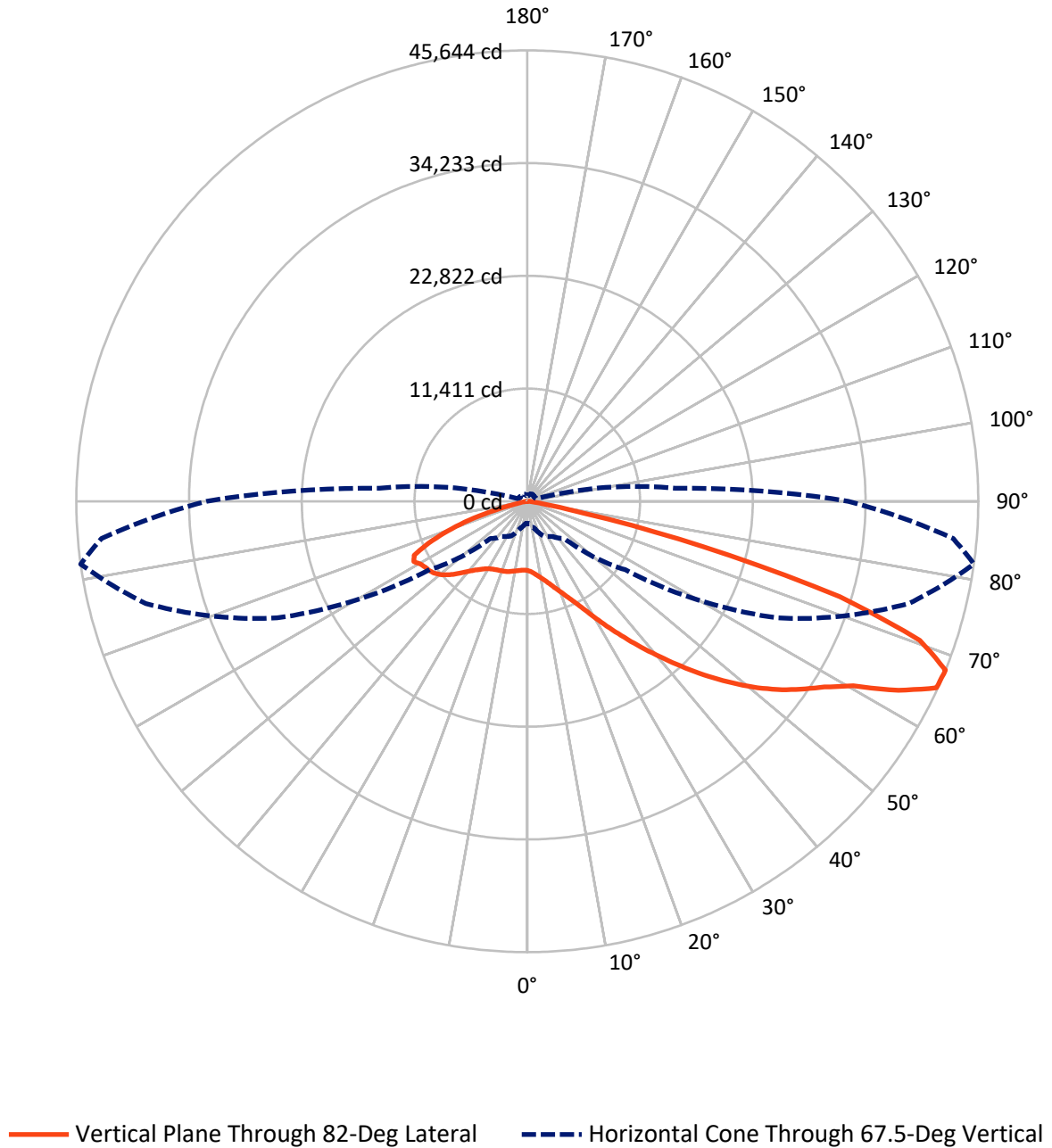
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7661.9	0.0	7661.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	34636.1	0.0	34636.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	42298.0	0.0	42298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.3	1.5
10°-20°	1622.3	3.8
20°-30°	2598.4	6.1
30°-40°	4594.8	10.9
40°-50°	8050.6	19.0
50°-60°	10737.2	25.4
60°-70°	9995.8	23.6
70°-80°	3836.4	9.1
80°-90°	238.3	0.6
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°	42298.0	100.0
0°-180°	42298.0	100.0

Coefficient of Utilization



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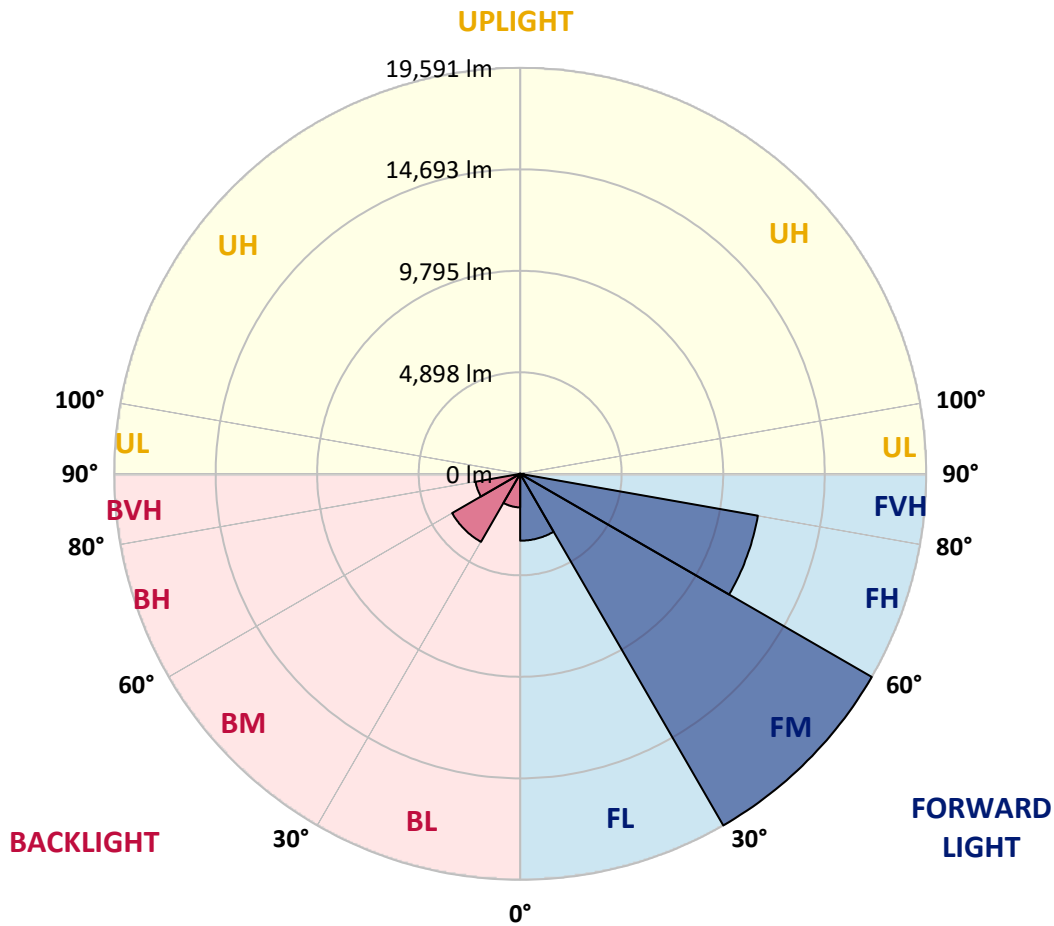
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3226.9	7.6			
FM (30°-60°)	19590.7	46.3			
FH (60°-80°)	11645.3	27.5			G4/12000
FVH (80°-90°)	173.2	0.4			G2/225
BL (0°-30°)	1618.2	3.8	B3/2500		
BM (30°-60°)	3791.8	9.0	B3/5000		
BH (60°-80°)	2186.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	65.0	0.2			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7007.3	7007.3	7007.3	7007.3	7007.3	7007.3	7007.3	7007.3	7007.3	7007.3
2.5°	7406.3	7448.9	7424.6	7412.4	7391.1	7360.6	7336.2	7260.1	7180.9	7129.2
5°	7555.5	7598.1	7595.1	7607.3	7622.5	7631.6	7625.6	7540.3	7427.6	7339.3
7.5°	7427.6	7476.3	7515.9	7576.8	7683.4	7796.1	7850.9	7832.6	7716.9	7595.1
10°	7065.2	7117.0	7211.4	7354.5	7579.9	7823.5	8027.5	8121.9	8048.9	7914.9
12.5°	6401.3	6453.1	6638.9	6949.5	7327.1	7750.4	8140.2	8393.0	8411.3	8277.3
15°	5655.2	5707.0	5904.9	6294.7	6870.3	7549.4	8201.1	8679.2	8840.6	8724.9
17.5°	5192.3	5238.0	5387.2	5700.9	6300.8	7147.4	8179.8	8983.8	9352.3	9260.9
20°	5052.2	5091.8	5161.9	5381.1	5880.6	6730.2	8039.7	9270.0	9903.5	9851.7
22.5°	5201.5	5238.0	5259.3	5356.8	5670.4	6456.1	7863.1	9562.4	10543.0	10549.1
25°	5545.6	5582.1	5557.8	5618.7	5755.7	6370.9	7796.1	9906.5	11347.0	11414.0
27.5°	6112.0	6115.1	6057.2	6054.2	6075.5	6498.8	7866.1	10275.0	12361.1	12485.9
30°	7247.9	7202.2	6979.9	6739.4	6629.7	6882.5	8061.0	10710.5	13557.9	13780.2
32.5°	8999.0	8932.0	8523.9	7948.4	7369.7	7500.7	8411.3	11206.9	14861.3	15263.3
35°	10899.3	10881.0	10454.7	9598.9	8587.9	8380.8	8980.7	11858.6	16283.5	16923.0
37.5°	12665.6	12656.5	12412.8	11404.8	10174.5	9608.1	9894.3	12711.3	17806.2	18731.9
40°	14279.6	14307.0	14063.4	13162.0	11922.5	11182.5	11136.8	13765.0	19499.4	20702.3
42.5°	15674.4	15704.9	15458.2	14791.3	13649.3	12924.5	12662.6	15056.2	21153.0	22818.8
45°	16621.5	16810.3	16773.8	16240.8	15421.6	14669.4	14495.9	16676.3	23038.1	25063.2
47.5°	16889.5	17063.1	17337.2	17410.3	16910.8	16170.8	16377.9	18628.4	24944.5	27310.7
50°	16228.7	16390.1	16959.5	17717.8	18065.0	17836.6	18208.1	20720.6	26896.5	29552.1
52.5°	14925.3	15089.7	15808.4	17008.3	18424.4	19143.1	20044.5	22782.3	28787.7	31674.7
55°	13040.2	13213.8	14136.5	15494.7	17739.2	19682.1	21576.3	24840.9	30520.5	33584.1
57.5°	10476.0	10603.9	11563.2	13463.5	16015.5	19146.1	22706.1	27088.4	32152.8	35460.0
60°	6827.7	6940.3	8054.9	10174.5	13159.0	17355.4	22931.5	29594.7	34321.1	37899.4
62.5°	4540.6	4616.7	5277.6	6833.8	9267.0	13917.2	21612.8	31595.5	37500.4	42144.6
65°	3115.4	3191.5	3852.4	4936.5	5987.2	9206.1	17821.4	31330.5	40381.3	45515.8
67.5°	2223.1	2287.1	2847.4	3870.6	4333.5	5347.6	12080.9	27944.1	39967.2	45643.7
70°	1592.7	1629.3	2092.2	3014.9	3444.3	3212.8	6718.0	21372.3	34994.1	42147.6
72.5°	1114.6	1126.8	1452.6	2296.2	2774.3	2344.9	3197.6	14249.2	26467.1	33081.6
75°	755.2	770.5	977.6	1684.1	2226.1	1790.7	1693.2	7640.8	15537.4	18311.7
77.5°	462.9	469.0	630.4	1151.1	1665.8	1364.3	1090.2	3237.2	6011.5	5901.9
80°	261.9	261.9	402.0	715.7	1135.9	880.1	764.4	1376.5	1903.3	1671.9
82.5°	146.2	149.2	292.4	444.6	752.2	520.8	420.3	636.5	822.2	727.8
85°	60.9	67.0	179.7	210.1	359.4	258.9	170.5	268.0	304.5	271.0
87.5°	6.1	9.1	54.8	39.6	42.6	51.8	24.4	51.8	42.6	42.6
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°
7007.3	0°	7007.3	7007.3	7007.3	7007.3	7007.3	7007.3	7007.3	7007.3	7007.3	7007.3
7110.9	2.5°	7053.0	7007.3	6891.6	6757.6	6581.0	6495.7	6380.0	6300.8	6233.8	6239.9
7287.5	5°	7190.1	7074.3	6815.5	6492.7	6090.7	5804.4	5499.9	5289.8	5119.2	5082.7
7531.1	7.5°	7378.9	7196.2	6742.4	6160.7	5481.6	4967.0	4507.1	4211.7	4001.6	3934.6
7826.5	10°	7622.5	7357.6	6648.0	5743.5	4766.0	4111.2	3617.9	3386.4	3243.3	3194.6
8173.7	12.5°	7905.7	7543.3	6523.1	5235.0	4029.0	3398.6	3084.9	2969.2	2923.5	2908.3
8600.1	15°	8262.0	7774.8	6334.3	4632.0	3404.7	2963.1	2829.1	2813.9	2820.0	2813.9
9111.7	17.5°	8685.3	8027.5	6026.7	4010.7	2984.4	2740.8	2692.1	2704.3	2719.5	2716.5
9684.2	20°	9148.2	8277.3	5633.9	3459.5	2698.2	2582.5	2555.0	2567.2	2579.4	2573.3
10345.0	22.5°	9675.1	8545.2	5198.4	3030.1	2506.3	2436.3	2405.8	2408.9	2408.9	2396.7
11182.5	25°	10305.5	8840.6	4741.6	2725.6	2360.1	2305.3	2268.8	2256.6	2238.3	2201.8
12199.7	27.5°	11057.7	9154.3	4303.1	2512.4	2244.4	2192.7	2150.0	2119.6	2073.9	2013.0
13420.9	30°	11904.3	9535.0	3931.5	2378.4	2153.1	2101.3	2052.6	2006.9	1939.9	1863.8
14824.8	32.5°	12900.1	9943.1	3660.5	2290.1	2070.8	2016.0	1958.2	1903.3	1830.3	1754.1
16402.2	35°	14087.8	10436.4	3502.2	2229.2	2006.9	1933.8	1869.8	1808.9	1754.1	1687.1
18116.8	37.5°	15376.0	10960.2	3453.4	2198.7	1964.2	1851.6	1778.5	1735.8	1729.8	1690.2
19971.4	40°	16786.0	11581.5	3490.0	2180.5	1918.6	1772.4	1693.2	1684.1	1699.3	1629.3
21953.9	42.5°	18278.2	12318.4	3550.9	2159.2	1854.6	1693.2	1617.1	1617.1	1604.9	1507.4
24049.1	45°	19892.2	13168.1	3611.8	2107.4	1778.5	1614.0	1556.2	1534.9	1483.1	1388.7
26156.5	47.5°	21518.4	14033.0	3657.5	2013.0	1687.1	1547.0	1495.3	1446.5	1370.4	1285.1
28224.3	50°	23062.4	14809.5	3608.7	1872.9	1583.6	1483.1	1428.3	1361.3	1279.0	1221.2
30182.5	52.5°	24442.0	15482.6	3401.7	1708.4	1473.9	1416.1	1367.4	1297.3	1230.3	1169.4
31948.8	55°	25641.8	16027.7	3036.2	1553.1	1376.5	1358.2	1309.5	1221.2	1129.8	1078.1
33699.8	57.5°	26793.0	16441.8	2579.4	1425.2	1288.2	1294.3	1221.2	1142.0	1056.7	1001.9
36060.0	60°	28324.8	16996.1	2116.5	1306.5	1193.8	1212.0	1132.9	1075.0	968.4	898.4
40107.2	62.5°	30773.2	17857.9	1681.0	1160.3	1084.1	1090.2	1056.7	986.7	858.8	776.6
43106.9	65°	32716.2	17541.2	1324.7	1001.9	959.3	968.4	968.4	892.3	755.2	660.8
43268.3	67.5°	32496.9	15019.7	1056.7	846.6	840.5	846.6	867.9	804.0	670.0	593.8
39973.2	70°	29935.8	11946.9	846.6	703.5	730.9	715.7	776.6	733.9	603.0	526.8
30989.5	72.5°	24426.7	8606.2	645.6	581.7	560.3	584.7	700.4	660.8	502.5	417.2
16414.4	75°	14273.5	4592.4	481.2	459.8	405.0	487.3	621.3	563.4	383.7	307.6
5030.9	77.5°	4647.2	1601.9	353.3	338.0	301.5	392.8	529.9	475.1	313.7	243.6
1473.9	80°	1245.5	484.2	240.6	222.3	194.9	292.4	420.3	377.6	225.4	158.4
633.4	82.5°	499.4	204.0	140.1	124.9	106.6	201.0	331.9	304.5	167.5	100.5
197.9	85°	161.4	67.0	51.8	39.6	48.7	124.9	197.9	207.1	118.8	51.8
30.5	87.5°	21.3	9.1	9.1	12.2	9.1	21.3	60.9	57.9	33.5	6.1
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>
7007.3
6179.0
5000.5
3867.6
3158.0
2899.2
2810.9
2710.4
2570.3
2390.6
2195.7
2006.9
1857.7
1757.2
1681.0
1687.1
1632.3
1507.4
1385.6
1282.1
1212.0
1163.3
1072.0
995.8
889.2
770.5
651.7
581.7
517.7
408.1
298.4
234.5
155.3
100.5
39.6
0.0
0.0

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