

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: P943334

Luminaire Tested: **GALN-SB7D-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943334
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-SB7D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 900mA 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: 52845 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

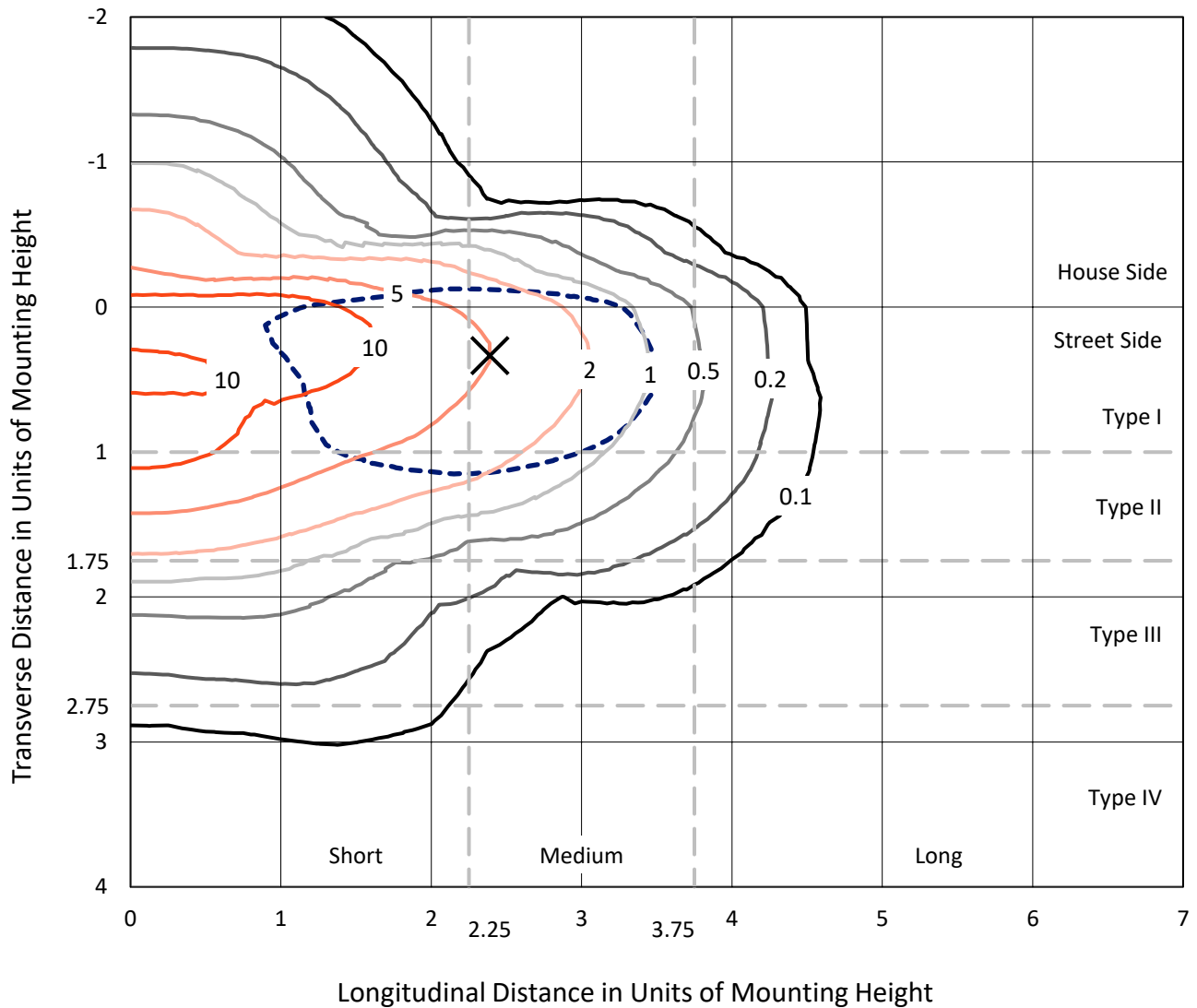
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

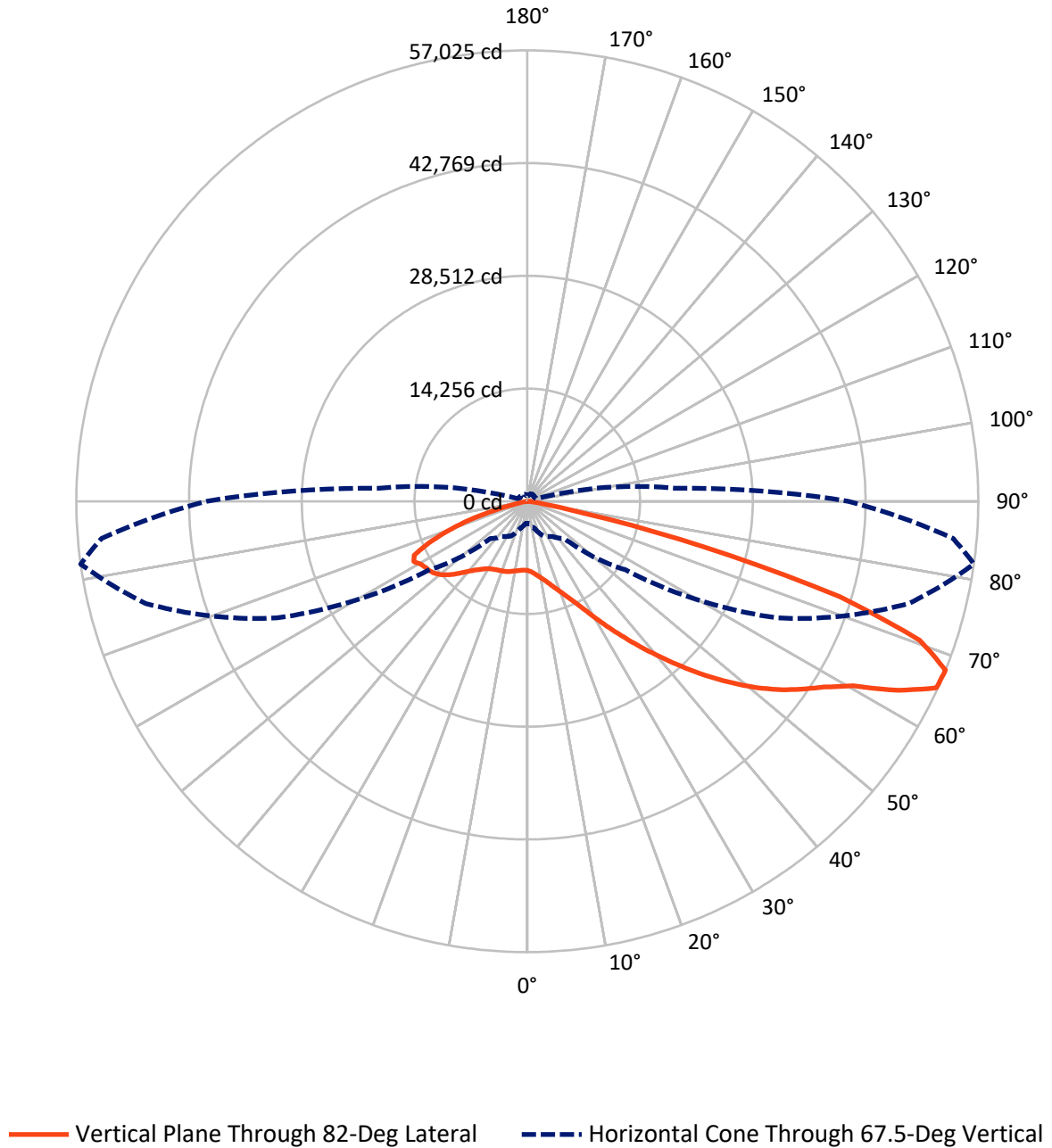
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 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	9572.4	0.0	9572.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	43272.6	0.0	43272.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	52845.0	0.0	52845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.0	1.5
10°-20°	2026.8	3.8
20°-30°	3246.3	6.1
30°-40°	5740.5	10.9
40°-50°	10058.0	19.0
50°-60°	13414.5	25.4
60°-70°	12488.2	23.6
70°-80°	4793.0	9.1
80°-90°	297.7	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°	52845.0	100.0
0°-180°	52845.0	100.0

Coefficient of Utilization



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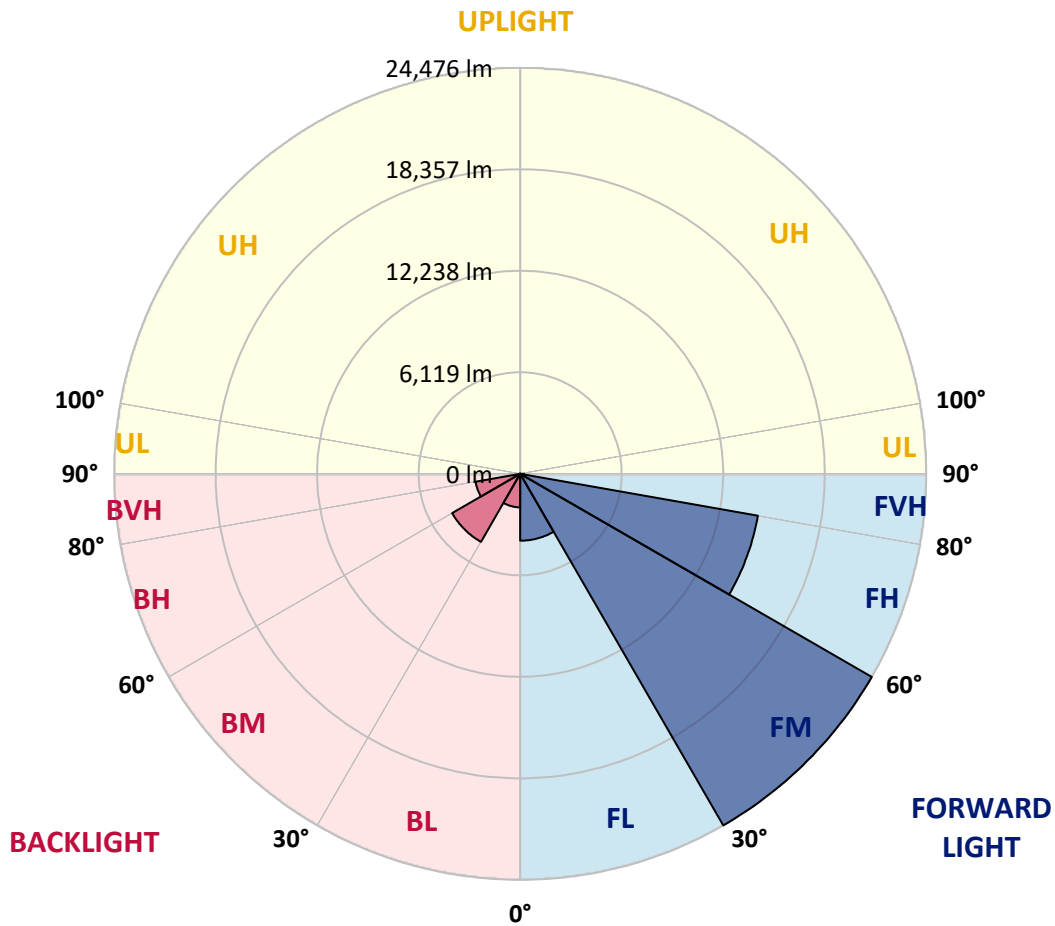
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4031.5	7.6			
FM (30°-60°)	24475.6	46.3			
FH (60°-80°)	14549.0	27.5			G5
FVH (80°-90°)	216.4	0.4			G2/225
BL (0°-30°)	2021.7	3.8	B3/2500		
BM (30°-60°)	4737.3	9.0	B3/5000		
BH (60°-80°)	2732.1	5.2	B4/5000		G4/5000
BVH (80°-90°)	81.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	8754.6	8754.6	8754.6	8754.6	8754.6	8754.6	8754.6	8754.6	8754.6	8754.6
2.5°	9253.0	9306.3	9275.9	9260.7	9234.0	9196.0	9165.5	9070.4	8971.5	8906.8
5°	9439.5	9492.7	9488.9	9504.2	9523.2	9534.6	9527.0	9420.5	9279.7	9169.3
7.5°	9279.7	9340.6	9390.0	9466.1	9599.3	9740.0	9808.5	9785.7	9641.1	9488.9
10°	8826.9	8891.6	9009.5	9188.4	9469.9	9774.3	10029.2	10147.2	10055.8	9888.4
12.5°	7997.5	8062.2	8294.3	8682.3	9154.1	9683.0	10170.0	10485.8	10508.6	10341.2
15°	7065.3	7130.0	7377.3	7864.3	8583.4	9431.9	10246.1	10843.4	11045.1	10900.5
17.5°	6487.0	6544.1	6730.5	7122.4	7871.9	8929.6	10219.4	11223.9	11684.3	11570.1
20°	6312.0	6361.5	6449.0	6722.9	7346.9	8408.4	10044.4	11581.5	12372.9	12308.2
22.5°	6498.4	6544.1	6570.7	6692.5	7084.4	8066.0	9823.8	11946.8	13171.9	13179.5
25°	6928.4	6974.0	6943.6	7019.7	7190.9	7959.4	9740.0	12376.7	14176.3	14260.0
27.5°	7636.0	7639.8	7567.6	7563.8	7590.4	8119.2	9827.6	12837.1	15443.3	15599.3
30°	9055.2	8998.1	8720.4	8419.8	8282.8	8598.6	10071.1	13381.2	16938.6	17216.3
32.5°	11242.9	11159.2	10649.4	9930.3	9207.4	9371.0	10508.6	14001.3	18567.0	19069.2
35°	13617.0	13594.2	13061.6	11992.4	10729.3	10470.6	11220.1	14815.5	20343.8	21142.8
37.5°	15823.8	15812.4	15508.0	14248.6	12711.5	12003.8	12361.5	15880.8	22246.1	23402.7
40°	17840.3	17874.5	17570.1	16443.9	14895.4	13970.9	13913.8	17197.3	24361.5	25864.4
42.5°	19582.8	19620.9	19312.7	18479.5	17052.7	16147.2	15820.0	18810.5	26427.5	28508.7
45°	20766.1	21002.0	20956.3	20290.5	19267.0	18327.3	18110.4	20834.6	28782.6	31312.7
47.5°	21100.9	21317.8	21660.2	21751.5	21127.5	20203.0	20461.7	23273.4	31164.3	34120.6
50°	20275.3	20476.9	21188.4	22135.8	22569.5	22284.2	22748.3	25887.2	33603.2	36920.9
52.5°	18646.9	18852.3	19750.2	21249.3	23018.5	23916.4	25042.6	28463.0	35965.9	39572.7
55°	16291.8	16508.6	17661.4	19358.3	22162.4	24589.8	26956.3	31035.0	38130.8	41958.3
57.5°	13088.2	13248.0	14446.5	16820.6	20008.9	23920.2	28367.9	33842.9	40170.1	44302.0
60°	8530.2	8670.9	10063.4	12711.5	16440.1	21683.0	28649.4	36974.1	42879.0	47349.6
62.5°	5672.8	5767.9	6593.6	8537.8	11577.7	17387.5	27002.0	39473.8	46851.1	52653.3
65°	3892.2	3987.3	4813.0	6167.4	7480.1	11501.6	22265.1	39142.8	50450.4	56865.1
67.5°	2777.4	2857.3	3557.4	4835.8	5414.1	6681.1	15093.3	34912.0	49933.0	57024.9
70°	1989.9	2035.5	2613.8	3766.7	4303.1	4014.0	8393.2	26701.4	43719.9	52657.1
72.5°	1392.5	1407.7	1814.8	2868.7	3466.1	2929.6	3994.9	17802.2	33066.7	41330.5
75°	943.6	962.6	1221.3	2104.0	2781.2	2237.2	2115.4	9546.0	19411.6	22877.7
77.5°	578.3	585.9	787.6	1438.2	2081.2	1704.5	1362.1	4044.4	7510.5	7373.5
80°	327.2	327.2	502.2	894.1	1419.2	1099.6	955.0	1719.7	2377.9	2088.8
82.5°	182.6	186.4	365.3	555.5	939.8	650.6	525.0	795.2	1027.3	909.3
85°	76.1	83.7	224.5	262.5	449.0	323.4	213.1	334.8	380.5	338.6
87.5°	7.6	11.4	68.5	49.5	53.3	64.7	30.4	64.7	53.3	53.3
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°
8754.6	0°	8754.6	8754.6	8754.6	8754.6	8754.6	8754.6	8754.6	8754.6	8754.6	8754.6
8884.0	2.5°	8811.7	8754.6	8610.0	8442.6	8222.0	8115.4	7970.9	7871.9	7788.2	7795.8
9104.7	5°	8982.9	8838.3	8514.9	8111.6	7609.4	7251.8	6871.3	6608.8	6395.7	6350.1
9409.0	7.5°	9218.8	8990.5	8423.6	7696.9	6848.5	6205.5	5631.0	5261.9	4999.4	4915.7
9778.1	10°	9523.2	9192.2	8305.7	7175.7	5954.4	5136.4	4520.0	4230.8	4052.0	3991.1
10211.8	12.5°	9877.0	9424.3	8149.7	6540.3	5033.6	4246.1	3854.2	3709.6	3652.5	3633.5
10744.5	15°	10322.2	9713.4	7913.8	5787.0	4253.7	3702.0	3534.6	3515.5	3523.2	3515.5
11383.7	17.5°	10851.0	10029.2	7529.5	5010.8	3728.6	3424.2	3363.4	3378.6	3397.6	3393.8
12099.0	20°	11429.3	10341.2	7038.7	4322.1	3371.0	3226.4	3192.1	3207.4	3222.6	3215.0
12924.6	22.5°	12087.6	10676.0	6494.6	3785.7	3131.3	3043.8	3005.7	3009.5	3009.5	2994.3
13970.9	25°	12875.1	11045.1	5923.9	3405.2	2948.6	2880.2	2834.5	2819.3	2796.5	2750.8
15241.7	27.5°	13814.9	11436.9	5376.0	3138.9	2804.1	2739.4	2686.1	2648.1	2591.0	2514.9
16767.3	30°	14872.6	11912.5	4911.9	2971.5	2689.9	2625.2	2564.4	2507.3	2423.6	2328.5
18521.3	32.5°	16116.7	12422.4	4573.3	2861.1	2587.2	2518.7	2446.4	2377.9	2286.6	2191.5
20492.1	35°	17600.6	13038.7	4375.4	2785.0	2507.3	2416.0	2336.1	2260.0	2191.5	2107.8
22634.2	37.5°	19210.0	13693.1	4314.5	2747.0	2454.0	2313.3	2221.9	2168.7	2161.1	2111.6
24951.3	40°	20971.5	14469.3	4360.2	2724.2	2397.0	2214.3	2115.4	2104.0	2123.0	2035.5
27428.1	42.5°	22835.8	15390.0	4436.3	2697.5	2317.1	2115.4	2020.3	2020.3	2005.1	1883.3
30045.8	45°	24852.3	16451.5	4512.4	2632.9	2221.9	2016.5	1944.2	1917.6	1852.9	1734.9
32678.6	47.5°	26884.1	17532.1	4569.5	2514.9	2107.8	1932.8	1868.1	1807.2	1712.1	1605.6
35262.0	50°	28813.0	18502.3	4508.6	2339.9	1978.4	1852.9	1784.4	1700.7	1598.0	1525.7
37708.4	52.5°	30536.6	19343.1	4249.9	2134.4	1841.5	1769.2	1708.3	1620.8	1537.1	1461.0
39915.2	55°	32035.6	20024.2	3793.3	1940.4	1719.7	1696.9	1636.0	1525.7	1411.5	1346.9
42102.9	57.5°	33473.8	20541.6	3222.6	1780.6	1609.4	1617.0	1525.7	1426.8	1320.2	1251.7
45051.5	60°	35387.6	21234.1	2644.3	1632.2	1491.4	1514.3	1415.4	1343.1	1209.9	1122.4
50108.0	62.5°	38446.6	22310.8	2100.2	1449.6	1354.5	1362.1	1320.2	1232.7	1072.9	970.2
53855.6	65°	40874.0	21915.1	1655.0	1251.7	1198.5	1209.9	1209.9	1114.8	943.6	825.6
54057.3	67.5°	40600.0	18764.8	1320.2	1057.7	1050.1	1057.7	1084.3	1004.4	837.0	741.9
49940.6	70°	37400.3	14925.9	1057.7	878.9	913.1	894.1	970.2	916.9	753.3	658.2
38716.7	72.5°	30517.5	10752.1	806.6	726.7	700.1	730.5	875.1	825.6	627.8	521.2
20507.4	75°	17832.7	5737.5	601.1	574.5	506.0	608.8	776.2	703.9	479.4	384.3
6285.4	77.5°	5806.0	2001.3	441.3	422.3	376.7	490.8	662.0	593.5	391.9	304.4
1841.5	80°	1556.1	604.9	300.6	277.7	243.5	365.3	525.0	471.8	281.5	197.8
791.4	82.5°	624.0	254.9	175.0	156.0	133.2	251.1	414.7	380.5	209.3	125.6
247.3	85°	201.6	83.7	64.7	49.5	60.9	156.0	247.3	258.7	148.4	64.7
38.0	87.5°	26.6	11.4	11.4	15.2	11.4	26.6	76.1	72.3	41.9	7.6
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>
8754.6
7719.7
6247.3
4832.0
3945.5
3622.1
3511.7
3386.2
3211.2
2986.7
2743.2
2507.3
2320.9
2195.3
2100.2
2107.8
2039.3
1883.3
1731.1
1601.8
1514.3
1453.4
1339.3
1244.1
1111.0
962.6
814.2
726.7
646.8
509.8
372.9
293.0
194.0
125.6
49.5
0.0
0.0

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