

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: P955252

Luminaire Tested: **GALN-SB8B-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45258 lumens
Efficiency: N/A
Efficacy: 154.6 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

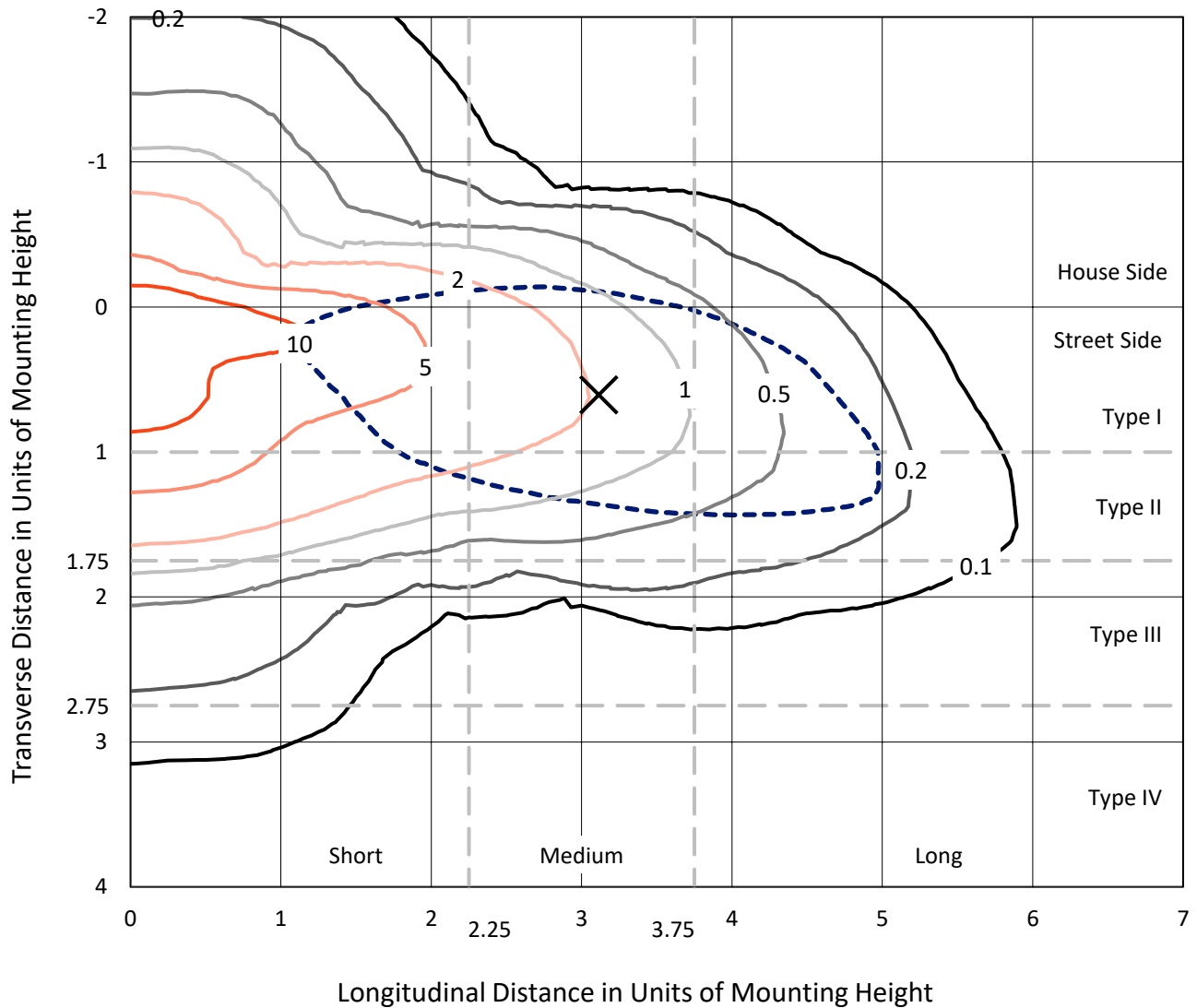
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

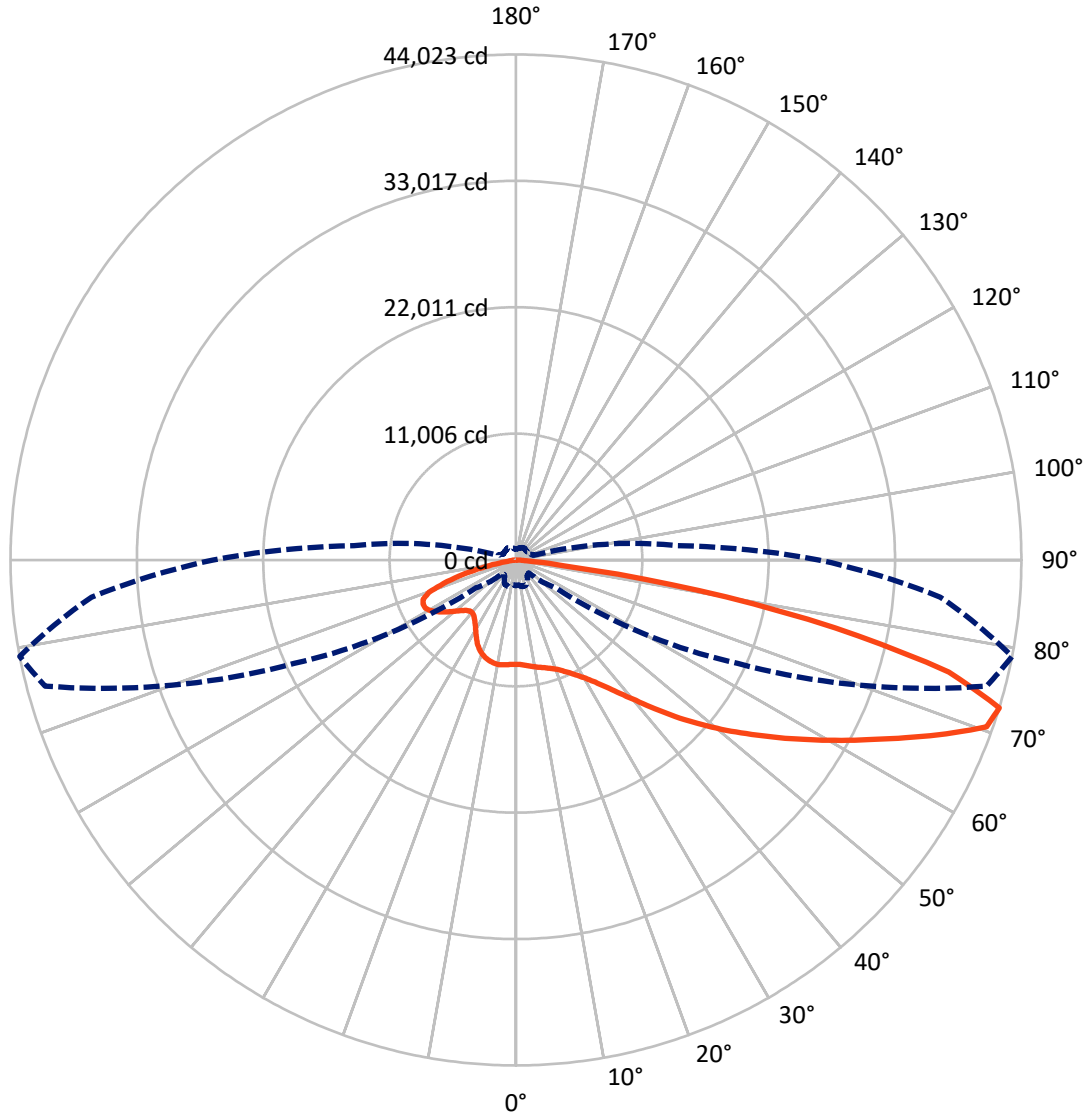
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9959.2	0.0	9959.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	35298.8	0.0	35298.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	45258.0	0.0	45258.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.7	1.8
10°-20°	2156.1	4.8
20°-30°	3479.0	7.7
30°-40°	5221.6	11.5
40°-50°	7407.1	16.4
50°-60°	9354.1	20.7
60°-70°	9500.4	21.0
70°-80°	6475.0	14.3
80°-90°	840.1	1.9
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°	45258.0	100.0
0°-180°	45258.0	100.0

Coefficient of Utilization



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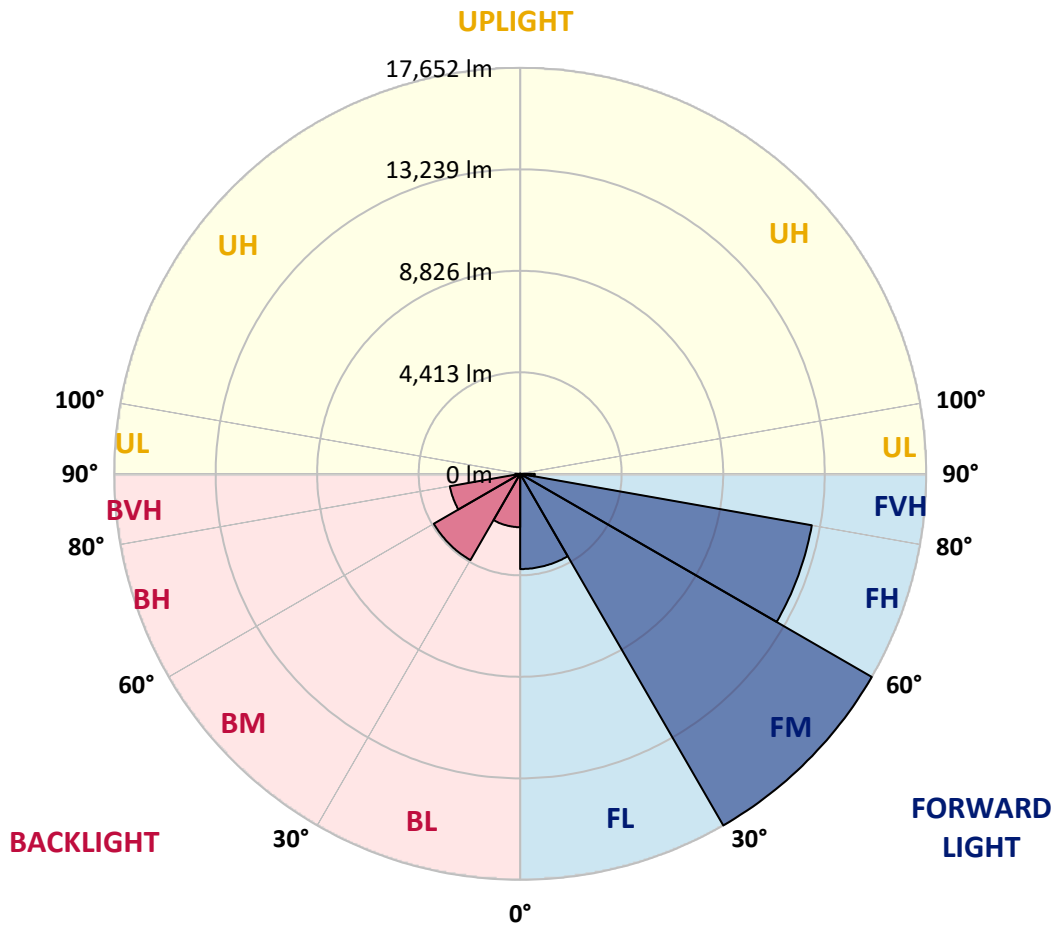
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4140.0	9.1			
FM (30°-60°)	17651.5	39.0			
FH (60°-80°)	12874.4	28.4			G5
FVH (80°-90°)	632.8	1.4			G4/750
BL (0°-30°)	2319.8	5.1	B3/2500		
BM (30°-60°)	4331.2	9.6	B3/5000		
BH (60°-80°)	3101.0	6.9	B4/5000		G4/5000
BVH (80°-90°)	207.2	0.5			G2/225
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°	79°
0°	9085.1	9085.1	9085.1	9085.1	9085.1	9085.1	9085.1	9085.1	9085.1	9085.1
2.5°	9089.9	9046.8	9073.1	9063.6	9075.5	9089.9	9094.7	9101.9	9125.8	9123.4
5°	9070.7	9027.7	9063.6	9051.6	9082.7	9116.2	9145.0	9171.3	9209.6	9226.4
7.5°	9030.1	9001.3	9037.2	9073.1	9130.6	9180.9	9221.6	9281.4	9336.5	9346.1
10°	8793.0	8771.5	8855.3	8948.7	9106.7	9243.1	9331.7	9401.1	9461.0	9470.5
12.5°	8546.5	8520.1	8613.5	8740.4	8996.5	9243.1	9429.8	9520.8	9573.5	9604.6
15°	8505.8	8484.2	8536.9	8647.0	8860.1	9178.5	9496.9	9664.5	9709.9	9745.8
17.5°	8702.1	8661.4	8682.9	8721.2	8845.7	9118.6	9549.5	9827.2	9896.7	9935.0
20°	9156.9	9099.5	9066.0	8989.4	8967.8	9128.2	9544.8	10023.5	10114.5	10162.4
22.5°	9762.6	9724.3	9652.5	9458.6	9247.9	9245.5	9635.7	10274.9	10444.9	10490.4
25°	10495.2	10437.7	10346.7	10083.4	9678.8	9477.7	9788.9	10595.7	10880.6	10892.6
27.5°	11337.8	11251.7	11127.2	10780.0	10234.2	9841.6	10023.5	10964.4	11380.9	11376.1
30°	12226.0	12139.8	12008.1	11586.8	10899.7	10332.4	10349.1	11361.8	11974.6	11948.3
32.5°	12874.8	12810.1	12783.8	12458.2	11665.8	10911.7	10722.6	11802.3	12707.2	12683.2
35°	13372.7	13288.9	13320.0	13154.9	12501.3	11560.5	11179.8	12326.5	13597.7	13595.4
37.5°	13865.9	13791.7	13818.0	13707.9	13274.6	12384.0	11737.6	12968.1	14701.4	14754.0
40°	14315.9	14236.9	14342.3	14239.3	13875.4	13260.2	12372.0	13693.5	15979.7	16080.3
42.5°	14586.5	14524.2	14699.0	14701.4	14397.3	13999.9	13068.7	14493.1	17459.2	17684.3
45°	14679.8	14658.3	14921.6	14976.7	14859.4	14428.5	13695.9	15364.5	19053.6	19455.8
47.5°	14579.3	14538.6	14902.5	15105.9	15199.3	14629.5	14215.4	16307.7	20681.5	21270.4
50°	14071.8	13992.8	14533.8	14962.3	15295.1	14761.2	14739.7	17397.0	22532.0	23176.0
52.5°	13159.6	13099.8	13715.0	14459.6	15084.4	14825.9	15328.6	18586.8	24289.2	25122.3
55°	11993.8	11914.8	12592.3	13564.2	14560.1	14804.3	15917.5	19917.8	26362.4	27207.5
57.5°	10145.6	9987.6	10844.7	11993.8	13705.5	14778.0	16530.4	21241.7	28469.1	29481.7
60°	7450.0	7215.4	8266.4	9628.5	12034.5	14521.8	17289.2	22725.9	30997.1	31909.2
62.5°	4337.9	4201.4	4888.5	6159.7	9070.7	13013.6	17715.4	24452.0	33482.1	34439.6
65°	3368.3	3330.0	3389.9	3488.0	5048.9	9743.5	16401.1	26135.0	36642.1	37312.4
67.5°	3081.0	3052.3	3078.6	2894.3	2561.5	5427.1	12975.3	26561.1	40027.2	40434.1
70°	2738.7	2705.2	2791.4	2633.4	2015.7	2468.2	8383.7	25014.6	42720.4	43484.1
72.5°	2231.2	2192.9	2394.0	2322.2	1697.3	1584.8	4211.0	21339.8	42437.9	44022.7
75°	1714.1	1692.5	1931.9	1991.8	1383.7	1247.3	2020.5	15862.4	37345.9	38942.7
77.5°	1331.0	1314.3	1436.4	1654.2	1115.6	967.2	1242.5	10061.9	28143.5	28423.6
80°	998.3	950.4	1062.9	1280.8	869.0	706.2	842.7	5867.6	17789.6	16125.8
82.5°	624.8	600.9	694.3	854.6	612.9	486.0	548.2	3241.4	7129.2	4199.0
85°	356.7	347.1	378.2	488.4	332.8	280.1	313.6	1431.6	1302.3	895.3
87.5°	143.6	138.9	172.4	217.9	122.1	102.9	110.1	344.7	287.3	265.7
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°
9085.1	0°	9085.1	9085.1	9085.1	9085.1	9085.1	9085.1	9085.1	9085.1	9085.1	9085.1
9121.0	2.5°	9111.4	9111.4	9077.9	9025.3	8965.4	8927.1	8864.9	8848.1	8783.5	8764.3
9202.4	5°	9221.6	9202.4	9099.5	8951.1	8747.6	8560.8	8355.0	8225.7	8043.7	7979.1
9362.8	7.5°	9360.4	9307.8	9130.6	8805.0	8378.9	7959.9	7524.2	7193.9	6877.9	6765.4
9494.5	10°	9487.3	9413.1	9111.4	8541.7	7804.3	7079.0	6384.7	5898.7	5530.1	5379.2
9640.5	12.5°	9614.2	9477.7	8984.6	8103.6	6988.0	6004.1	5264.3	4886.1	4658.7	4476.7
9760.2	15°	9733.9	9542.4	8788.3	7517.1	6092.7	5094.4	4548.5	4246.9	4065.0	3945.3
9935.0	17.5°	9872.7	9597.4	8493.8	6772.5	5240.4	4464.8	4019.5	3837.5	3801.6	3787.3
10174.4	20°	10066.6	9647.7	8106.0	5939.4	4613.2	3962.0	3732.2	3715.4	3713.0	3705.9
10461.6	22.5°	10274.9	9707.5	7593.7	5182.9	4079.3	3648.4	3607.7	3574.2	3552.7	3550.3
10808.8	25°	10521.5	9726.7	6952.1	4562.9	3624.5	3500.0	3452.1	3401.8	3387.5	3387.5
11203.8	27.5°	10760.9	9662.1	6205.2	4024.3	3368.3	3363.5	3301.3	3284.5	3282.1	3289.3
11653.8	30°	11000.3	9540.0	5463.0	3526.3	3219.9	3219.9	3198.3	3210.3	3219.9	3243.8
12271.5	32.5°	11323.5	9410.7	4843.0	3157.6	3090.6	3066.7	3088.2	3112.2	3121.7	3152.9
13083.0	35°	11797.5	9319.7	4349.8	2956.6	2956.6	2925.4	2937.4	2932.6	2911.1	2896.7
14064.6	37.5°	12424.7	9314.9	3942.9	2863.2	2844.0	2839.2	2841.6	2810.5	2726.7	2626.2
15252.0	40°	13178.8	9444.2	3629.3	2798.6	2784.2	2812.9	2798.6	2714.8	2484.9	2310.2
16712.3	42.5°	14191.4	9812.9	3428.2	2719.5	2762.6	2798.6	2741.1	2451.4	2295.8	2178.5
18376.1	45°	15383.6	10411.4	3325.2	2635.8	2721.9	2765.0	2487.3	2360.5	2236.0	2094.7
20190.7	47.5°	16733.8	11165.5	3301.3	2556.8	2631.0	2657.3	2379.6	2322.2	2180.9	2027.7
22014.9	50°	18203.7	12058.4	3365.9	2463.4	2499.3	2408.3	2343.7	2291.0	2145.0	1994.2
23884.6	52.5°	19723.9	13042.3	3495.2	2336.5	2367.6	2267.1	2329.3	2283.8	2123.5	1920.0
25816.6	55°	21217.7	14033.4	3619.7	2188.1	2233.6	2140.2	2288.6	2255.1	2025.3	1795.5
27877.8	57.5°	22735.5	15019.8	3741.8	2056.4	2104.3	2018.1	2224.0	2178.5	1915.2	1680.6
30128.1	60°	24313.2	15977.4	3799.2	1929.5	1963.1	1905.6	2125.8	2046.8	1790.7	1563.3
32340.1	62.5°	25790.2	16774.5	3705.9	1802.7	1824.2	1800.3	1996.6	1891.2	1666.2	1431.6
34645.5	65°	27272.1	17248.5	3418.6	1678.2	1683.0	1671.0	1814.6	1723.7	1520.2	1316.7
36663.6	67.5°	28615.1	17514.3	2961.3	1544.1	1532.1	1527.4	1644.7	1541.7	1378.9	1201.8
38198.2	70°	28900.0	16839.2	2262.3	1386.1	1386.1	1374.1	1457.9	1352.6	1223.3	1079.7
37099.3	72.5°	26395.9	14165.1	1606.4	1206.6	1225.7	1201.8	1271.2	1182.6	1065.3	969.6
31973.9	75°	21284.8	10387.4	1168.3	1022.2	1055.7	1015.0	1079.7	1017.4	916.9	914.5
22034.1	77.5°	14624.8	6423.0	847.5	842.7	866.6	813.9	888.2	854.6	763.7	723.0
9590.2	80°	6241.1	2561.5	617.6	651.2	651.2	603.3	689.5	699.0	620.0	600.9
1850.5	82.5°	1242.5	727.8	433.3	447.7	421.3	407.0	488.4	541.0	746.9	830.7
557.8	85°	373.5	268.1	260.9	244.2	215.5	217.9	287.3	543.4	670.3	383.0
184.3	87.5°	102.9	67.0	69.4	55.1	45.5	59.8	98.2	411.8	225.0	95.8
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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<u>180°</u>
9085.1
8795.4
8027.0
6779.7
5412.8
4536.6
3966.8
3796.8
3729.8
3576.6
3401.8
3308.5
3260.6
3179.2
2930.2
2628.6
2305.4
2173.7
2085.1
2015.7
1977.4
1905.6
1783.5
1675.8
1556.1
1429.2
1302.3
1187.4
1074.9
940.8
823.5
677.5
600.9
833.1
330.4
81.4
0.0

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