

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: P950254

Luminaire Tested: **GALN-SB4D-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950254
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-SB4D-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40536 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

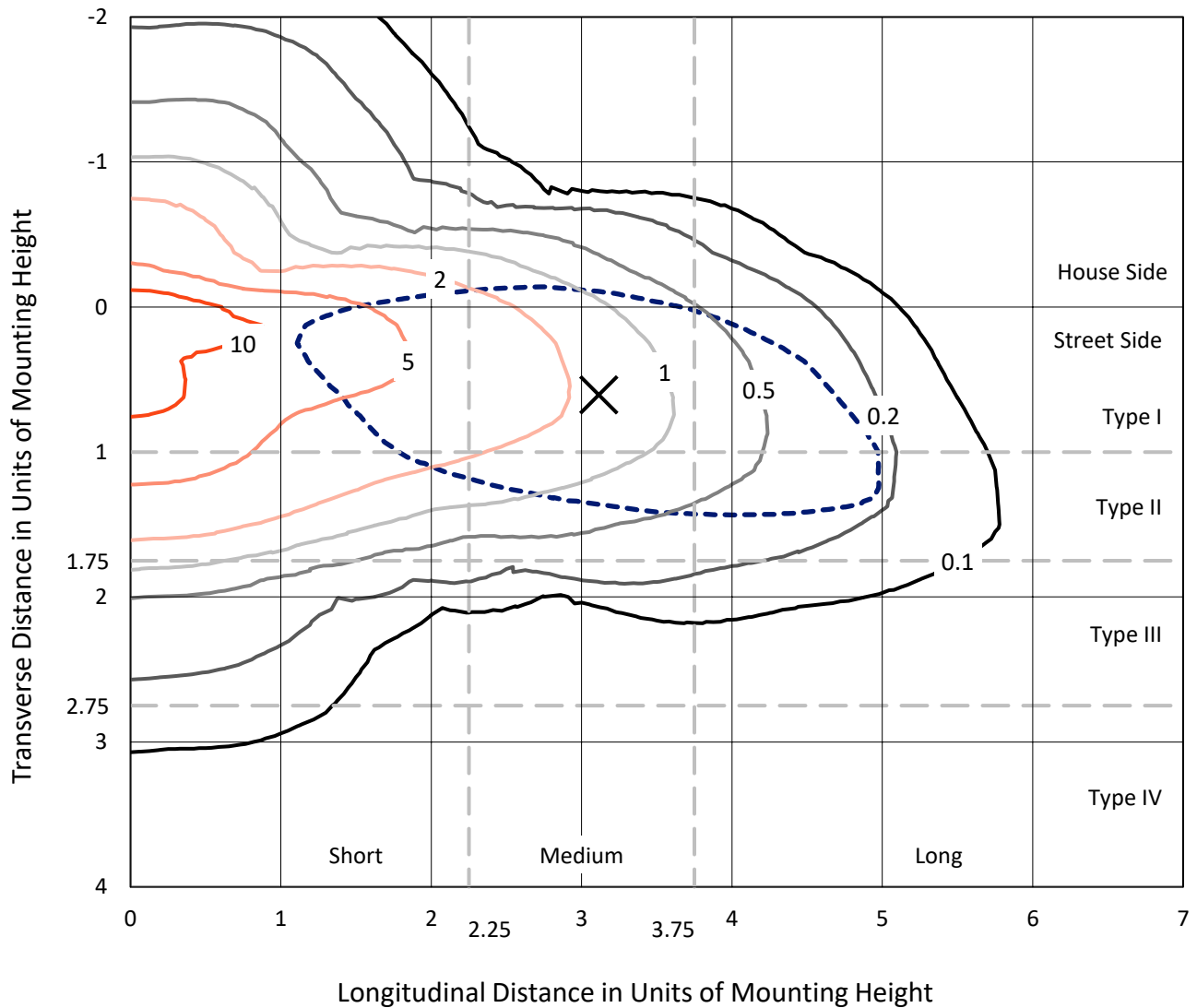
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

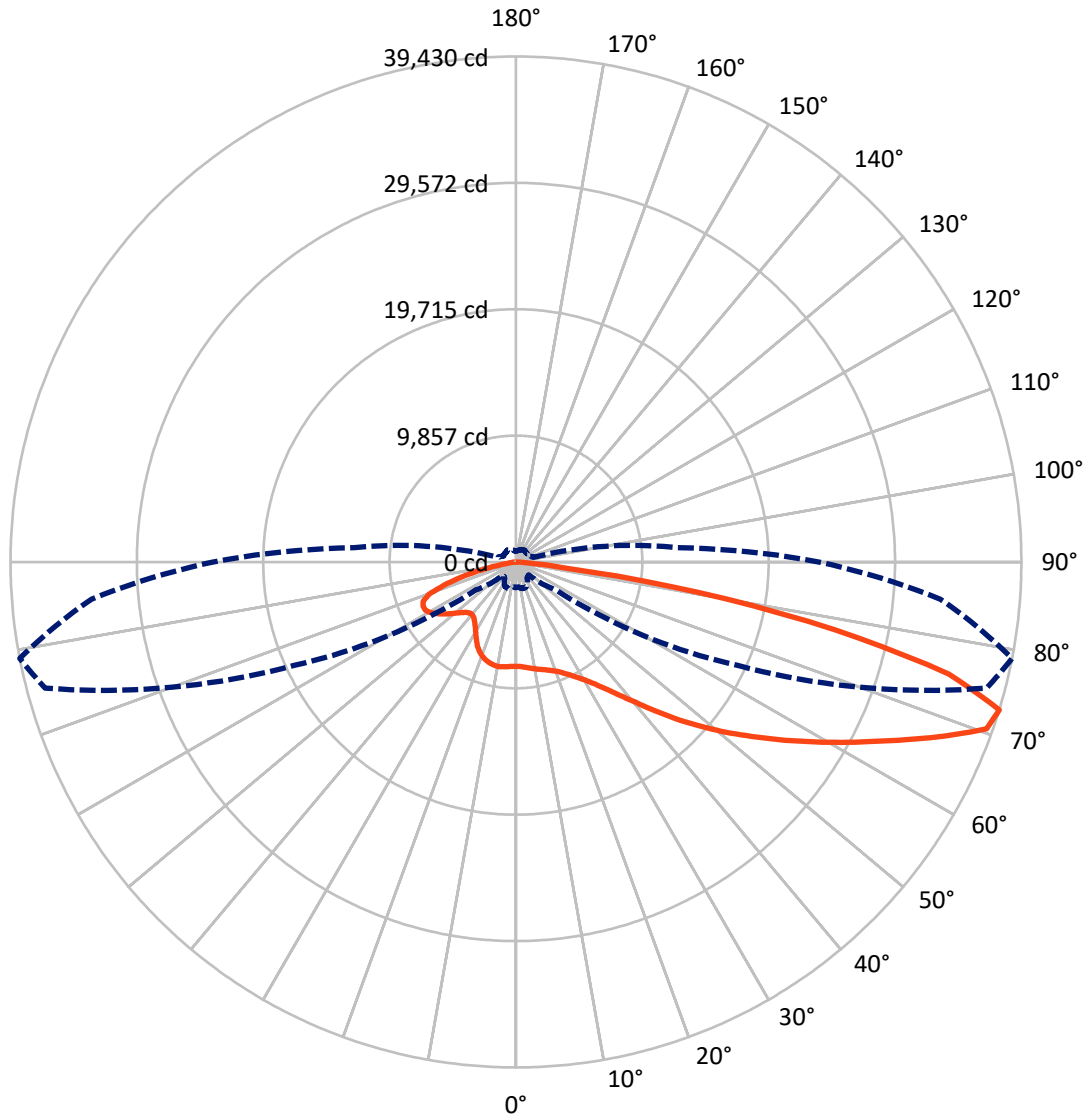
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	8920.2	0.0	8920.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	31615.8	0.0	31615.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	40536.0	0.0	40536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	738.6	1.8
10°-20°	1931.1	4.8
20°-30°	3116.1	7.7
30°-40°	4676.8	11.5
40°-50°	6634.3	16.4
50°-60°	8378.2	20.7
60°-70°	8509.2	21.0
70°-80°	5799.4	14.3
80°-90°	752.4	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°	40536.0	100.0
0°-180°	40536.0	100.0

Coefficient of Utilization



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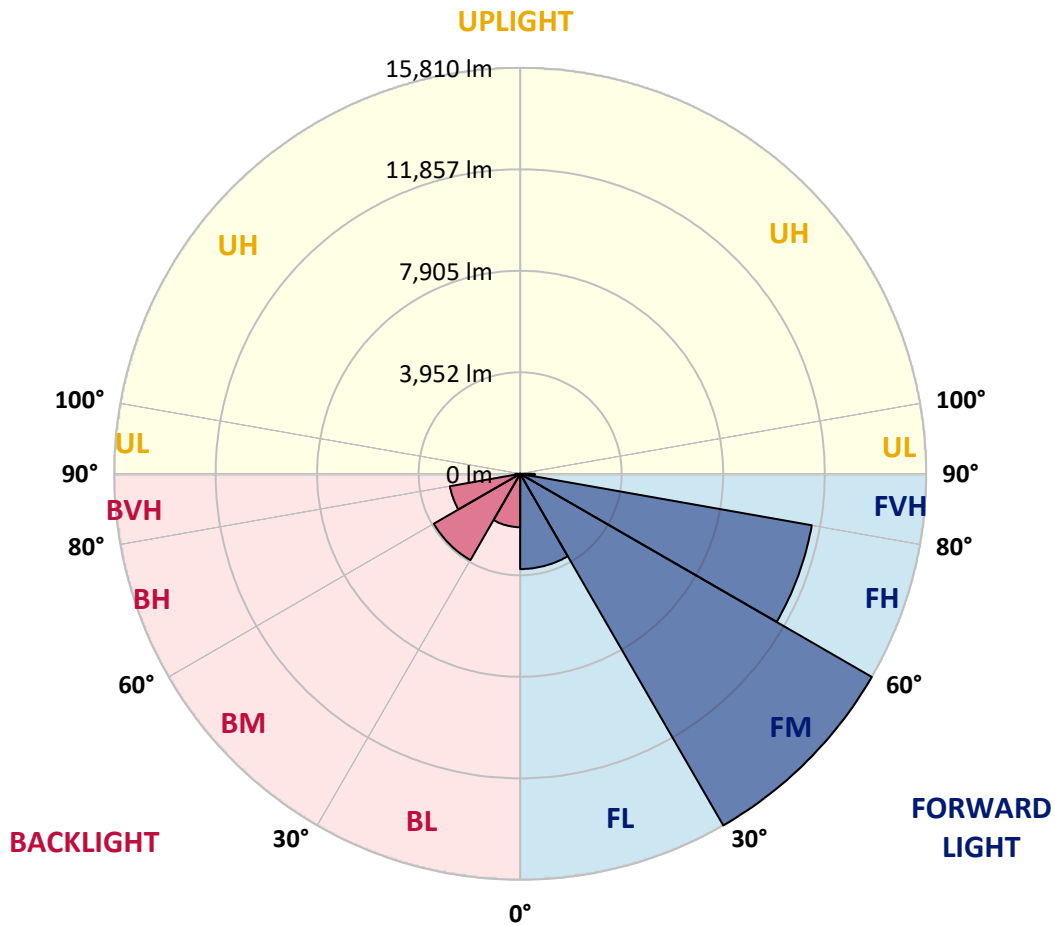
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3708.1	9.1			
FM (30°-60°)	15809.9	39.0			
FH (60°-80°)	11531.1	28.4			G4/12000
FVH (80°-90°)	566.8	1.4			G4/750
BL (0°-30°)	2077.8	5.1	B3/2500		
BM (30°-60°)	3879.3	9.6	B3/5000		
BH (60°-80°)	2777.4	6.9	B4/5000		G4/5000
BVH (80°-90°)	185.6	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	8137.2	8137.2	8137.2	8137.2	8137.2	8137.2	8137.2	8137.2	8137.2	8137.2
2.5°	8141.5	8102.9	8126.5	8117.9	8128.6	8141.5	8145.8	8152.2	8173.7	8171.5
5°	8124.4	8085.8	8117.9	8107.2	8135.1	8165.1	8190.8	8214.4	8248.7	8263.7
7.5°	8087.9	8062.2	8094.3	8126.5	8178.0	8223.0	8259.4	8313.0	8362.4	8370.9
10°	7875.6	7856.3	7931.4	8015.0	8156.5	8278.7	8358.1	8420.3	8473.9	8482.4
12.5°	7654.8	7631.2	7714.8	7828.5	8057.9	8278.7	8446.0	8527.5	8574.6	8602.5
15°	7618.3	7599.0	7646.2	7744.8	7935.7	8220.8	8506.0	8656.1	8696.9	8729.0
17.5°	7794.1	7757.7	7777.0	7811.3	7922.8	8167.2	8553.2	8801.9	8864.1	8898.4
20°	8201.5	8150.1	8120.1	8051.4	8032.2	8175.8	8548.9	8977.7	9059.2	9102.1
22.5°	8744.0	8709.7	8645.4	8471.7	8283.0	8280.9	8630.4	9202.9	9355.1	9395.9
25°	9400.1	9348.7	9267.2	9031.3	8669.0	8488.9	8767.6	9490.2	9745.4	9756.1
27.5°	10154.9	10077.7	9966.2	9655.3	9166.4	8814.8	8977.7	9820.4	10193.5	10189.2
30°	10950.4	10873.2	10755.3	10377.9	9762.5	9254.3	9269.4	10176.3	10725.3	10701.7
32.5°	11531.5	11473.6	11450.0	11158.4	10448.7	9773.2	9603.8	10570.9	11381.4	11359.9
35°	11977.5	11902.4	11930.3	11782.3	11197.0	10354.3	10013.4	11040.5	12179.0	12176.9
37.5°	12419.2	12352.7	12376.3	12277.7	11889.6	11091.9	10513.0	11615.1	13167.5	13214.7
40°	12822.3	12751.5	12845.9	12753.7	12427.7	11876.7	11081.2	12264.8	14312.5	14402.6
42.5°	13064.6	13008.8	13165.4	13167.5	12895.2	12539.2	11705.2	12981.0	15637.6	15839.2
45°	13148.2	13128.9	13364.8	13414.1	13309.0	12923.1	12266.9	13761.4	17065.6	17425.9
47.5°	13058.1	13021.7	13347.6	13529.9	13613.5	13103.2	12732.2	14606.3	18523.7	19051.2
50°	12603.6	12532.8	13017.4	13401.2	13699.3	13221.1	13201.8	15581.9	20181.2	20757.9
52.5°	11786.6	11733.0	12284.1	12950.9	13510.6	13279.0	13729.3	16647.5	21755.0	22501.2
55°	10742.4	10671.7	11278.5	12149.0	13041.0	13259.7	14256.7	17839.7	23611.9	24368.8
57.5°	9087.1	8945.6	9713.2	10742.4	12275.5	13236.1	14805.7	19025.4	25498.8	26405.8
60°	6672.7	6462.6	7403.9	8623.9	10778.9	13006.7	15485.4	20354.8	27763.0	28580.0
62.5°	3885.3	3763.1	4378.4	5517.0	8124.4	11655.8	15867.0	21900.8	29988.7	30846.4
65°	3016.9	2982.6	3036.2	3124.1	4522.1	8726.9	14689.9	23408.2	32819.0	33419.4
67.5°	2759.6	2733.8	2757.4	2592.3	2294.3	4860.9	11621.5	23789.8	35850.9	36215.4
70°	2453.0	2422.9	2500.1	2358.6	1805.4	2210.7	7509.0	22404.7	38263.1	38947.1
72.5°	1998.4	1964.1	2144.2	2079.9	1520.2	1419.5	3771.6	19113.3	38010.1	39429.6
75°	1535.2	1515.9	1730.4	1784.0	1239.3	1117.1	1809.7	14207.4	33449.4	34879.6
77.5°	1192.2	1177.2	1286.5	1481.6	999.2	866.3	1112.8	9012.0	25207.1	25458.0
80°	894.1	851.2	952.0	1147.1	778.3	632.5	754.8	5255.4	15933.5	14443.3
82.5°	559.6	538.2	621.8	765.5	548.9	435.3	491.0	2903.2	6385.4	3760.9
85°	319.5	310.9	338.8	437.4	298.0	250.9	280.9	1282.2	1166.4	801.9
87.5°	128.7	124.4	154.4	195.1	109.4	92.2	98.6	308.8	257.3	238.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8137.2	0°	8137.2	8137.2	8137.2	8137.2	8137.2	8137.2	8137.2	8137.2	8137.2	8137.2
8169.4	2.5°	8160.8	8160.8	8130.8	8083.6	8030.0	7995.7	7940.0	7924.9	7867.0	7849.9
8242.3	5°	8259.4	8242.3	8150.1	8017.1	7834.9	7667.6	7483.2	7367.5	7204.5	7146.6
8385.9	7.5°	8383.8	8336.6	8178.0	7886.3	7504.7	7129.4	6739.2	6443.3	6160.3	6059.5
8503.9	10°	8497.4	8431.0	8160.8	7650.5	6990.1	6340.4	5718.6	5283.3	4953.1	4818.0
8634.7	12.5°	8611.1	8488.9	8047.2	7258.1	6258.9	5377.6	4715.1	4376.3	4172.6	4009.6
8741.9	15°	8718.3	8546.8	7871.3	6732.8	5457.0	4562.8	4074.0	3803.8	3640.8	3533.6
8898.4	17.5°	8842.7	8596.1	7607.6	6065.9	4693.6	3998.9	3600.1	3437.1	3405.0	3392.1
9112.8	20°	9016.3	8641.1	7260.2	5319.7	4131.9	3548.6	3342.8	3327.8	3325.6	3319.2
9370.1	22.5°	9202.9	8694.7	6801.4	4642.2	3653.7	3267.8	3231.3	3201.3	3182.0	3179.8
9681.0	25°	9423.7	8711.9	6226.7	4086.8	3246.3	3134.8	3091.9	3046.9	3034.0	3034.0
10034.8	27.5°	9638.2	8654.0	5557.8	3604.4	3016.9	3012.6	2956.8	2941.8	2939.7	2946.1
10437.9	30°	9852.6	8544.6	4893.1	3158.4	2883.9	2883.9	2864.6	2875.4	2883.9	2905.4
10991.1	32.5°	10142.0	8428.8	4337.7	2828.2	2768.2	2746.7	2766.0	2787.5	2796.0	2823.9
11718.0	35°	10566.6	8347.3	3896.0	2648.1	2648.1	2620.2	2630.9	2626.6	2607.3	2594.5
12597.1	37.5°	11128.4	8343.1	3531.5	2564.5	2547.3	2543.0	2545.2	2517.3	2442.2	2352.2
13660.7	40°	11803.8	8458.8	3250.6	2506.6	2493.7	2519.4	2506.6	2431.5	2225.7	2069.1
14968.6	42.5°	12710.8	8789.1	3070.5	2435.8	2474.4	2506.6	2455.1	2195.7	2056.3	1951.2
16458.8	45°	13778.6	9325.1	2978.3	2360.8	2437.9	2476.5	2227.8	2114.2	2002.7	1876.2
18084.1	47.5°	14987.9	10000.5	2956.8	2290.0	2356.5	2380.1	2131.3	2079.9	1953.4	1816.1
19718.0	50°	16304.5	10800.3	3014.7	2206.4	2238.5	2157.1	2099.2	2052.0	1921.2	1786.1
21392.6	52.5°	17666.0	11681.6	3130.5	2092.7	2120.6	2030.6	2086.3	2045.6	1901.9	1719.6
23123.0	55°	19004.0	12569.3	3242.0	1959.8	2000.5	1916.9	2049.8	2019.8	1814.0	1608.1
24969.1	57.5°	20363.4	13452.7	3351.4	1841.9	1884.7	1807.6	1992.0	1951.2	1715.4	1505.2
26984.7	60°	21776.4	14310.4	3402.8	1728.2	1758.2	1706.8	1904.0	1833.3	1603.9	1400.2
28965.9	62.5°	23099.4	15024.4	3319.2	1614.6	1633.9	1612.4	1788.3	1693.9	1492.4	1282.2
31030.8	65°	24426.7	15448.9	3061.9	1503.1	1507.4	1496.6	1625.3	1543.8	1361.6	1179.3
32838.3	67.5°	25629.6	15686.9	2652.4	1383.0	1372.3	1368.0	1473.1	1380.9	1235.1	1076.4
34212.8	70°	25884.7	15082.3	2026.3	1241.5	1241.5	1230.8	1305.8	1211.5	1095.7	967.0
33228.6	72.5°	23641.9	12687.2	1438.8	1080.7	1097.8	1076.4	1138.6	1059.2	954.2	868.4
28637.9	75°	19064.0	9303.7	1046.4	915.6	945.6	909.1	967.0	911.3	821.2	819.1
19735.2	77.5°	13098.9	5752.9	759.0	754.8	776.2	729.0	795.5	765.5	684.0	647.5
8589.6	80°	5589.9	2294.3	553.2	583.2	583.2	540.3	617.5	626.1	555.3	538.2
1657.5	82.5°	1112.8	651.8	388.1	401.0	377.4	364.5	437.4	484.6	669.0	744.0
499.6	85°	334.5	240.1	233.7	218.7	193.0	195.1	257.3	486.7	600.4	343.1
165.1	87.5°	92.2	60.0	62.2	49.3	40.7	53.6	87.9	368.8	201.6	85.8
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>
8137.2
7877.8
7189.5
6072.4
4848.0
4063.2
3552.9
3400.7
3340.7
3203.4
3046.9
2963.3
2920.4
2847.5
2624.5
2354.3
2064.9
1946.9
1867.6
1805.4
1771.1
1706.8
1597.4
1500.9
1393.7
1280.1
1166.4
1063.5
962.7
842.7
737.6
606.8
538.2
746.2
295.9
72.9
0.0

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