

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: P943454

Luminaire Tested: **GALN-SB7D-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943454
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-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 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: 38294 lumens
Efficiency: N/A
Efficacy: 74.7 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

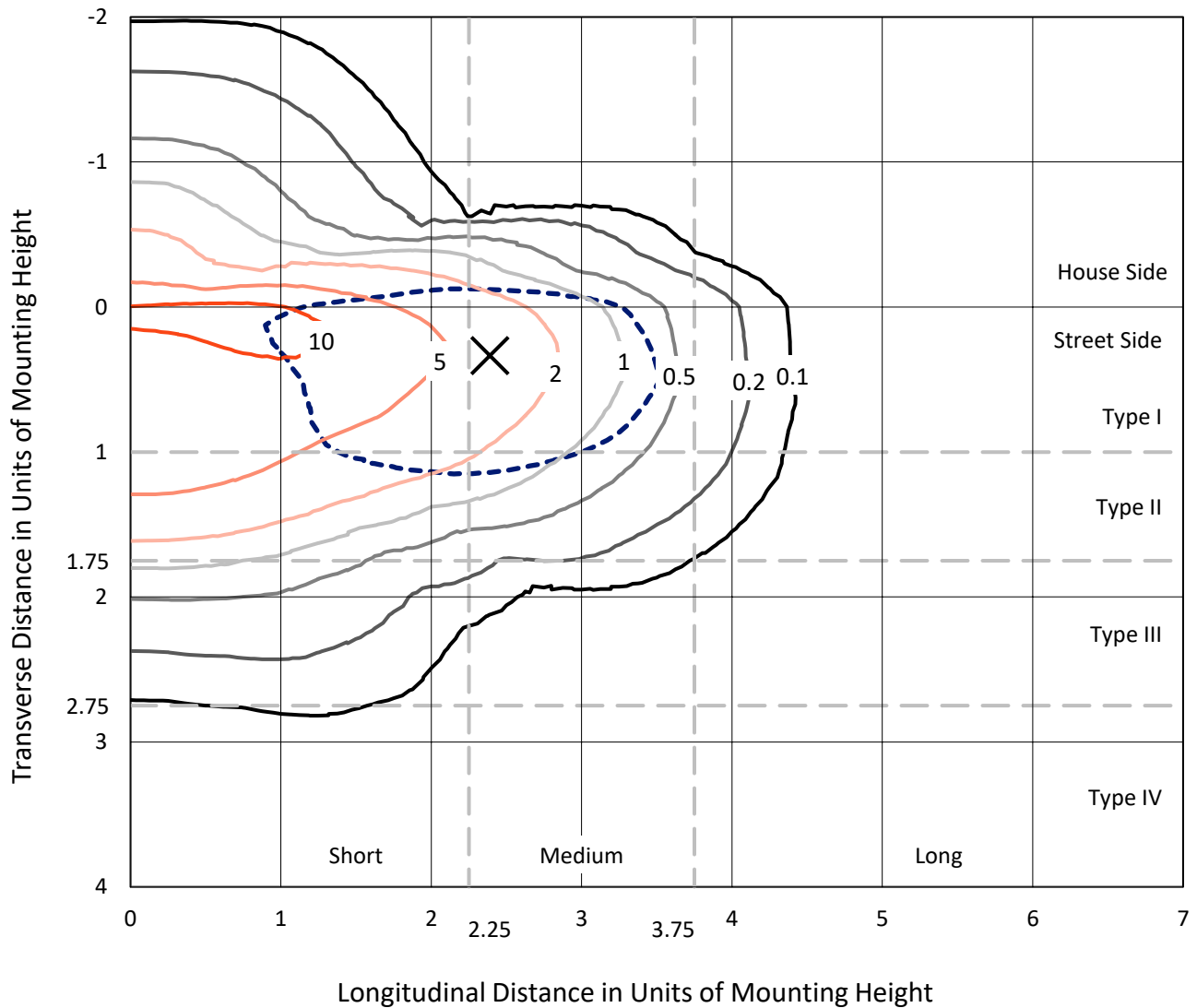
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

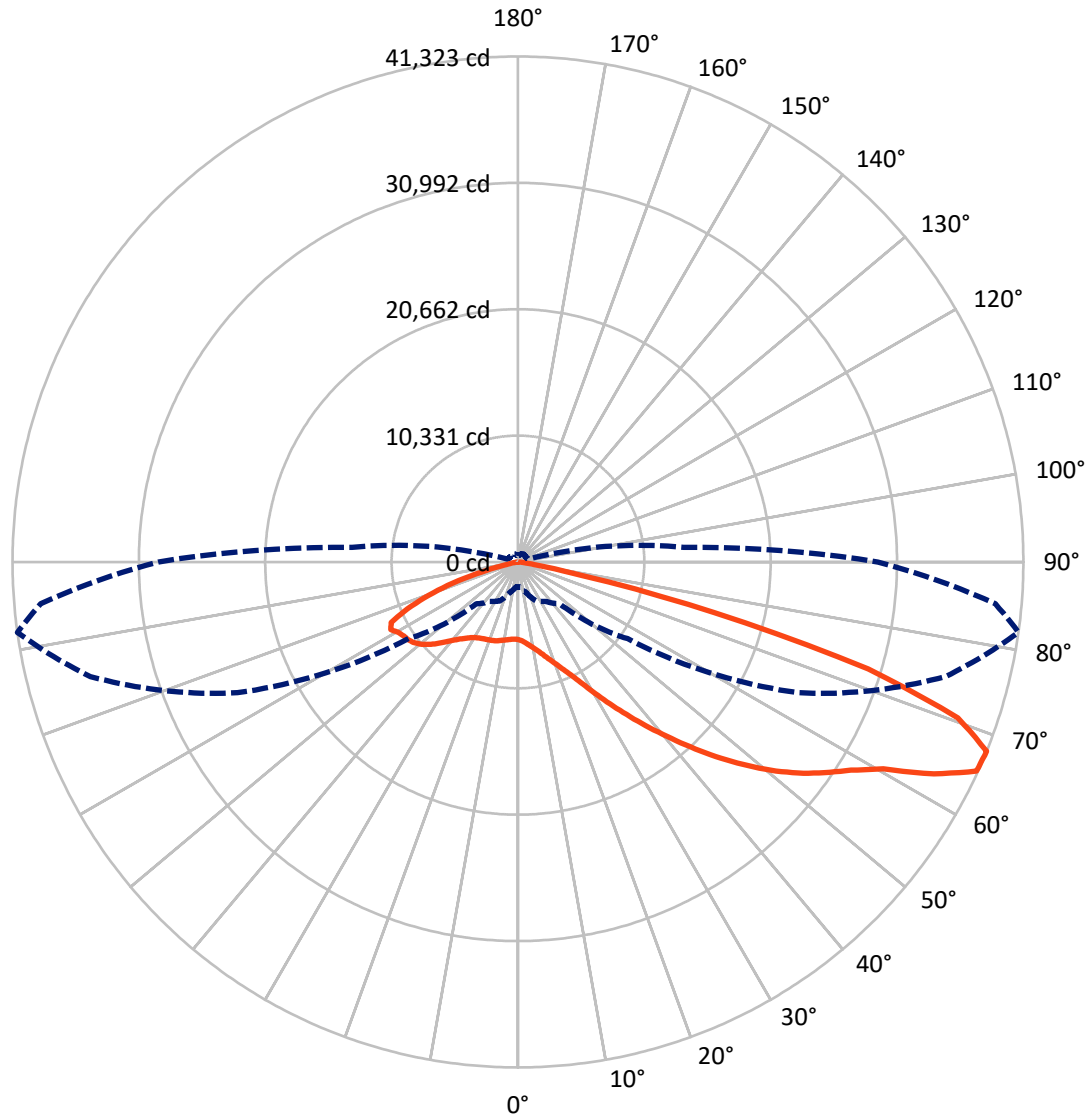
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6936.6	0.0	6936.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	31357.4	0.0	31357.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	38294.0	0.0	38294.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.2	1.5
10°-20°	1468.7	3.8
20°-30°	2352.5	6.1
30°-40°	4159.9	10.9
40°-50°	7288.5	19.0
50°-60°	9720.8	25.4
60°-70°	9049.6	23.6
70°-80°	3473.2	9.1
80°-90°	215.7	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°	38294.0	100.0
0°-180°	38294.0	100.0



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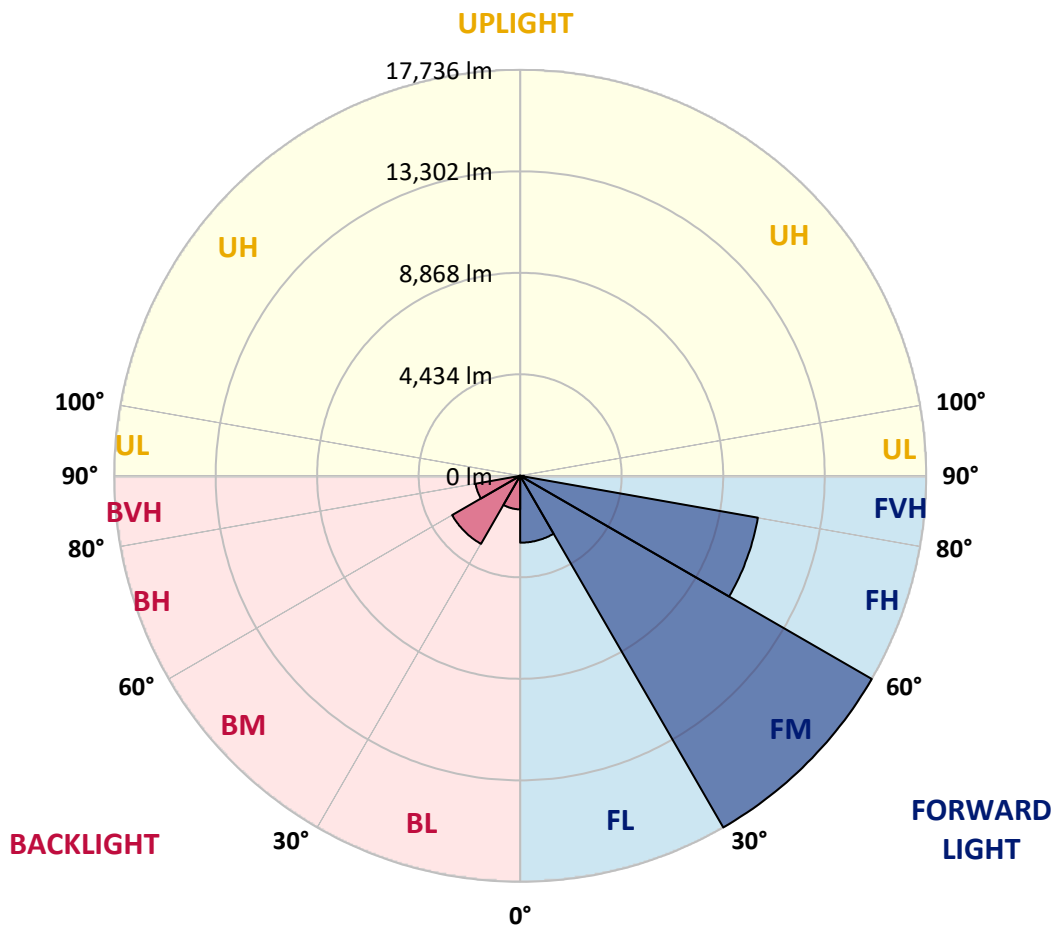
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2921.4	7.6			
FM (30°-60°)	17736.2	46.3			
FH (60°-80°)	10542.9	27.5			G4/12000
FVH (80°-90°)	156.8	0.4			G2/225
BL (0°-30°)	1465.0	3.8	B3/2500		
BM (30°-60°)	3432.9	9.0	B3/5000		
BH (60°-80°)	1979.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	58.9	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°	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0
2.5°	6705.2	6743.8	6721.7	6710.7	6691.4	6663.8	6641.8	6572.9	6501.2	6454.3
5°	6840.3	6878.9	6876.1	6887.2	6900.9	6909.2	6903.7	6826.5	6724.5	6644.5
7.5°	6724.5	6768.6	6804.5	6859.6	6956.1	7058.1	7107.7	7091.2	6986.4	6876.1
10°	6396.4	6443.3	6528.7	6658.3	6862.3	7082.9	7267.6	7353.1	7286.9	7165.6
12.5°	5795.4	5842.2	6010.4	6291.6	6633.5	7016.7	7369.7	7598.5	7615.0	7493.7
15°	5119.9	5166.8	5346.0	5698.9	6220.0	6834.8	7424.8	7857.7	8003.8	7899.0
17.5°	4700.8	4742.2	4877.3	5161.2	5704.4	6470.8	7405.5	8133.4	8467.0	8384.3
20°	4574.0	4609.8	4673.2	4871.7	5323.9	6093.1	7278.7	8392.5	8966.0	8919.1
22.5°	4709.1	4742.2	4761.5	4849.7	5133.7	5845.0	7118.8	8657.2	9545.0	9550.5
25°	5020.6	5053.7	5031.7	5086.8	5210.9	5767.8	7058.1	8968.8	10272.8	10333.5
27.5°	5533.4	5536.2	5483.8	5481.1	5500.4	5883.6	7121.5	9302.4	11191.0	11304.0
30°	6561.8	6520.5	6319.2	6101.4	6002.1	6231.0	7298.0	9696.6	12274.5	12475.7
32.5°	8147.1	8086.5	7717.0	7196.0	6672.1	6790.7	7615.0	10146.0	13454.5	13818.4
35°	9867.6	9851.0	9465.0	8690.3	7774.9	7587.5	8130.6	10736.0	14742.1	15321.0
37.5°	11466.7	11458.4	11237.8	10325.2	9211.4	8698.6	8957.7	11508.0	16120.6	16958.7
40°	12927.9	12952.7	12732.2	11916.1	10793.9	10124.0	10082.6	12462.0	17653.5	18742.6
42.5°	14190.6	14218.2	13994.9	13391.1	12357.2	11701.0	11463.9	13631.0	19150.6	20658.7
45°	15048.1	15219.0	15185.9	14703.5	13961.8	13280.8	13123.7	15097.7	20857.2	22690.7
47.5°	15290.7	15447.9	15696.0	15762.2	15310.0	14640.0	14827.5	16865.0	22583.2	24725.4
50°	14692.4	14838.6	15354.1	16040.6	16354.9	16148.2	16484.5	18759.1	24350.4	26754.6
52.5°	13512.4	13661.3	14312.0	15398.2	16680.3	17330.9	18147.0	20625.6	26062.6	28676.3
55°	11805.8	11962.9	12798.3	14028.0	16059.9	17818.9	19533.8	22489.4	27631.4	30405.0
57.5°	9484.3	9600.1	10468.6	12189.0	14499.4	17333.7	20556.7	24524.1	29109.2	32103.3
60°	6181.4	6283.4	7292.5	9211.4	11913.3	15712.5	20760.7	26793.2	31072.2	34311.7
62.5°	4110.8	4179.7	4778.0	6186.9	8389.8	12599.8	19566.9	28604.6	33950.6	38155.1
65°	2820.5	2889.4	3487.7	4469.2	5420.4	8334.6	16134.4	28364.7	36558.8	41207.2
67.5°	2012.7	2070.6	2577.9	3504.2	3923.3	4841.4	10937.3	25298.9	36183.8	41323.0
70°	1441.9	1475.0	1894.1	2729.5	3118.2	2908.7	6082.1	19349.1	31681.5	38157.9
72.5°	1009.1	1020.1	1315.1	2078.8	2511.7	2122.9	2894.9	12900.3	23961.7	29950.1
75°	683.8	697.5	885.0	1524.7	2015.4	1621.2	1532.9	6917.5	14066.6	16578.3
77.5°	419.1	424.6	570.7	1042.2	1508.1	1235.2	987.0	2930.8	5442.5	5343.2
80°	237.1	237.1	363.9	647.9	1028.4	796.8	692.0	1246.2	1723.2	1513.6
82.5°	132.3	135.1	264.7	402.5	681.0	471.5	380.5	576.2	744.4	658.9
85°	55.1	60.7	162.7	190.2	325.3	234.4	154.4	242.6	275.7	245.4
87.5°	5.5	8.3	49.6	35.8	38.6	46.9	22.1	46.9	38.6	38.6
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°
6344.0	0°	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0	6344.0
6437.8	2.5°	6385.4	6344.0	6239.3	6117.9	5958.0	5880.8	5776.1	5704.4	5643.7	5649.2
6597.7	5°	6509.4	6404.7	6170.3	5878.1	5514.1	5255.0	4979.3	4789.0	4634.6	4601.6
6818.2	7.5°	6680.4	6515.0	6104.2	5577.6	4962.7	4496.8	4080.5	3813.0	3622.8	3562.1
7085.7	10°	6900.9	6661.1	6018.7	5199.8	4314.8	3722.0	3275.4	3065.9	2936.3	2892.2
7400.0	12.5°	7157.4	6829.3	5905.6	4739.4	3647.6	3076.9	2792.9	2688.1	2646.8	2633.0
7786.0	15°	7479.9	7038.8	5734.7	4193.5	3082.4	2682.6	2561.3	2547.5	2553.0	2547.5
8249.2	17.5°	7863.2	7267.6	5456.2	3631.1	2701.9	2481.4	2437.3	2448.3	2462.1	2459.3
8767.5	20°	8282.2	7493.7	5100.6	3132.0	2442.8	2338.0	2313.2	2324.2	2335.2	2329.7
9365.8	22.5°	8759.2	7736.3	4706.3	2743.3	2269.1	2205.7	2178.1	2180.8	2180.8	2169.8
10124.0	25°	9329.9	8003.8	4292.8	2467.6	2136.7	2087.1	2054.0	2043.0	2026.4	1993.4
11044.8	27.5°	10010.9	8287.8	3895.7	2274.6	2032.0	1985.1	1946.5	1918.9	1877.6	1822.4
12150.4	30°	10777.4	8632.4	3559.4	2153.3	1949.2	1902.4	1858.3	1816.9	1756.3	1687.3
13421.4	32.5°	11679.0	9001.8	3314.0	2073.3	1874.8	1825.2	1772.8	1723.2	1657.0	1588.1
14849.6	35°	12754.2	9448.5	3170.6	2018.2	1816.9	1750.7	1692.8	1637.7	1588.1	1527.4
16401.8	37.5°	13920.5	9922.7	3126.5	1990.6	1778.3	1676.3	1610.1	1571.5	1566.0	1530.2
18080.9	40°	15197.0	10485.1	3159.6	1974.1	1737.0	1604.6	1532.9	1524.7	1538.4	1475.0
19875.7	42.5°	16547.9	11152.4	3214.7	1954.8	1679.1	1532.9	1464.0	1464.0	1453.0	1364.8
21772.6	45°	18009.2	11921.6	3269.9	1907.9	1610.1	1461.2	1408.9	1389.6	1342.7	1257.2
23680.5	47.5°	19481.5	12704.6	3311.2	1822.4	1527.4	1400.6	1353.7	1309.6	1240.7	1163.5
25552.5	50°	20879.3	13407.6	3267.1	1695.6	1433.7	1342.7	1293.1	1232.4	1158.0	1105.6
27325.3	52.5°	22128.3	14016.9	3079.6	1546.7	1334.4	1282.0	1237.9	1174.5	1113.9	1058.7
28924.4	55°	23214.5	14510.5	2748.8	1406.1	1246.2	1229.7	1185.5	1105.6	1022.9	976.0
30509.7	57.5°	24256.7	14885.4	2335.2	1290.3	1166.2	1171.8	1105.6	1033.9	956.7	907.1
32646.5	60°	25643.5	15387.2	1916.2	1182.8	1080.8	1097.3	1025.6	973.2	876.7	813.3
36310.6	62.5°	27860.2	16167.5	1521.9	1050.4	981.5	987.0	956.7	893.3	777.5	703.1
39026.3	65°	29619.2	15880.7	1199.3	907.1	868.5	876.7	876.7	807.8	683.8	598.3
39172.5	67.5°	29420.7	13597.9	956.7	766.5	761.0	766.5	785.8	727.9	606.6	537.6
36189.3	70°	27102.0	10816.0	766.5	636.9	661.7	647.9	703.1	664.5	545.9	477.0
28056.0	72.5°	22114.5	7791.5	584.5	526.6	507.3	529.4	634.1	598.3	454.9	377.7
14860.6	75°	12922.4	4157.7	435.6	416.3	366.7	441.1	562.4	510.1	347.4	278.5
4554.7	77.5°	4207.3	1450.2	319.8	306.0	273.0	355.7	479.7	430.1	284.0	220.6
1334.4	80°	1127.6	438.4	217.8	201.3	176.5	264.7	380.5	341.9	204.0	143.4
573.5	82.5°	452.2	184.7	126.8	113.0	96.5	182.0	300.5	275.7	151.6	91.0
179.2	85°	146.1	60.7	46.9	35.8	44.1	113.0	179.2	187.5	107.5	46.9
27.6	87.5°	19.3	8.3	8.3	11.0	8.3	19.3	55.1	52.4	30.3	5.5
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>
6344.0
5594.1
4527.1
3501.5
2859.1
2624.7
2544.8
2453.8
2327.0
2164.3
1987.8
1816.9
1681.8
1590.8
1521.9
1527.4
1477.8
1364.8
1254.5
1160.7
1097.3
1053.2
970.5
901.6
805.1
697.5
590.0
526.6
468.7
369.4
270.2
212.3
140.6
91.0
35.8
0.0
0.0

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