

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: P940705

Luminaire Tested: **GALN-SB3D-927-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3D-927-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18414 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

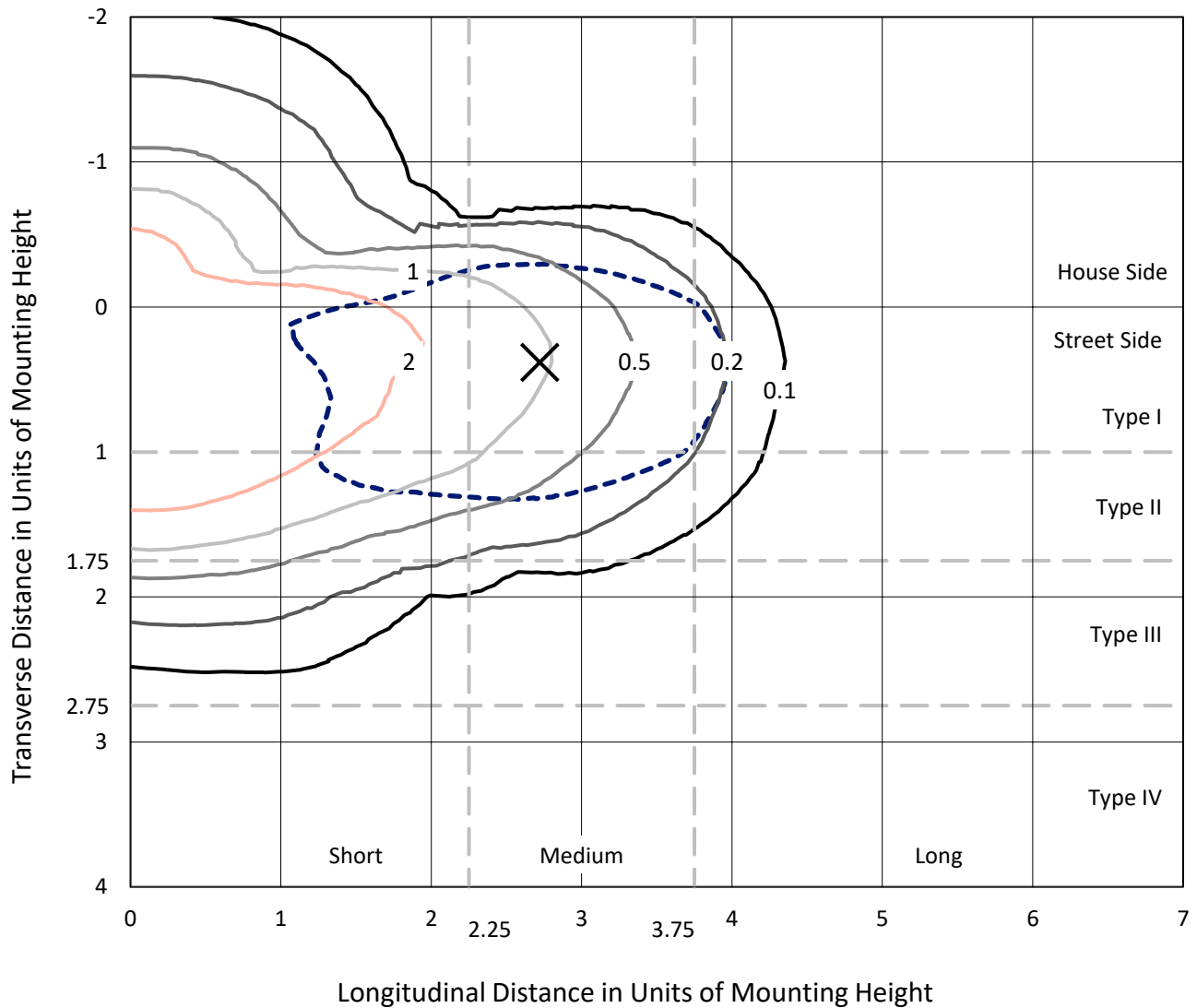
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

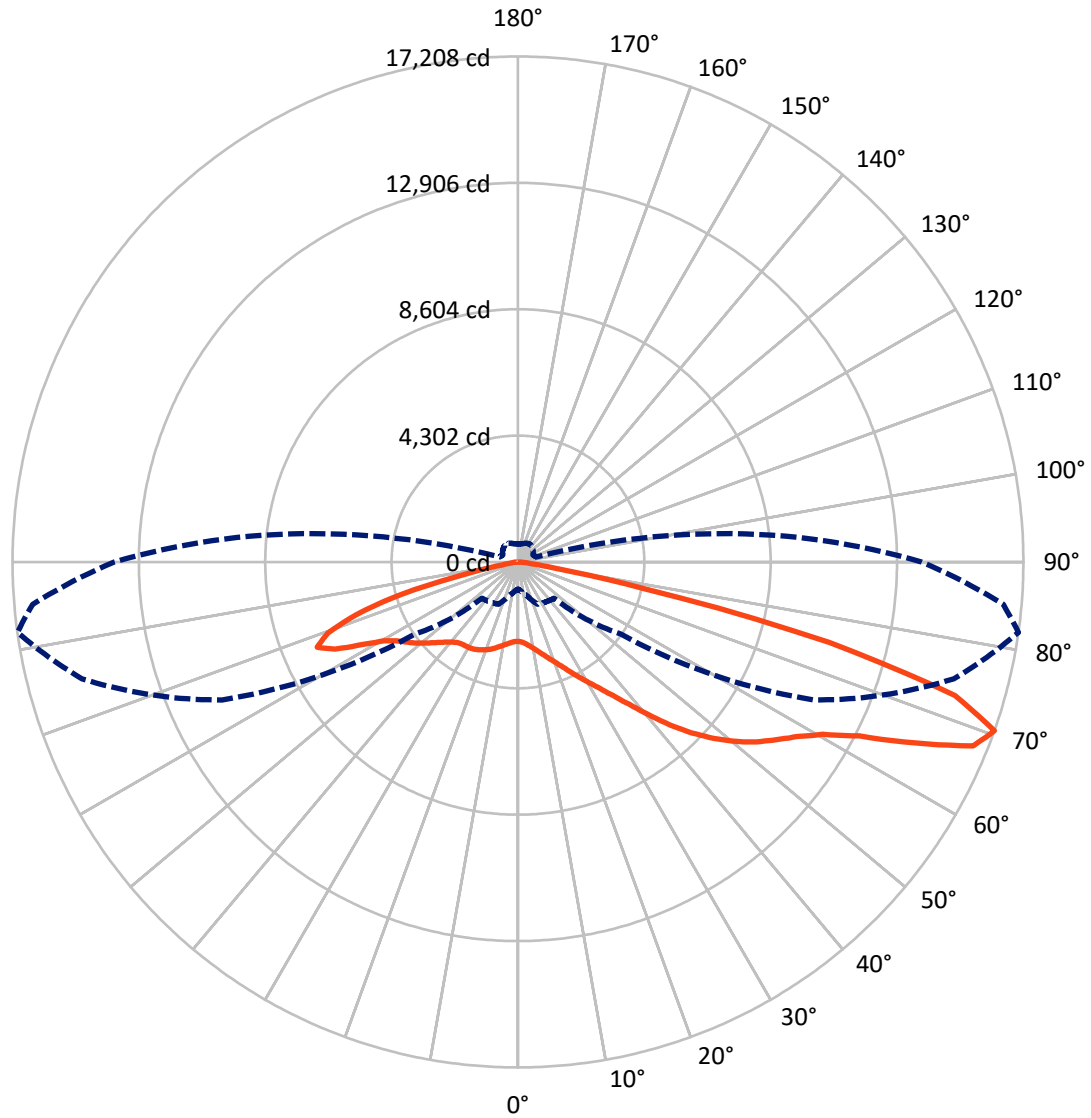
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4539.5	0.0	4539.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	13874.5	0.0	13874.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	18414.0	0.0	18414.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.9	1.4
10°-20°	732.3	4.0
20°-30°	1225.1	6.7
30°-40°	1914.0	10.4
40°-50°	3048.2	16.6
50°-60°	4242.0	23.0
60°-70°	4437.3	24.1
70°-80°	2319.2	12.6
80°-90°	240.8	1.3
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°	18414.0	100.0
0°-180°	18414.0	100.0



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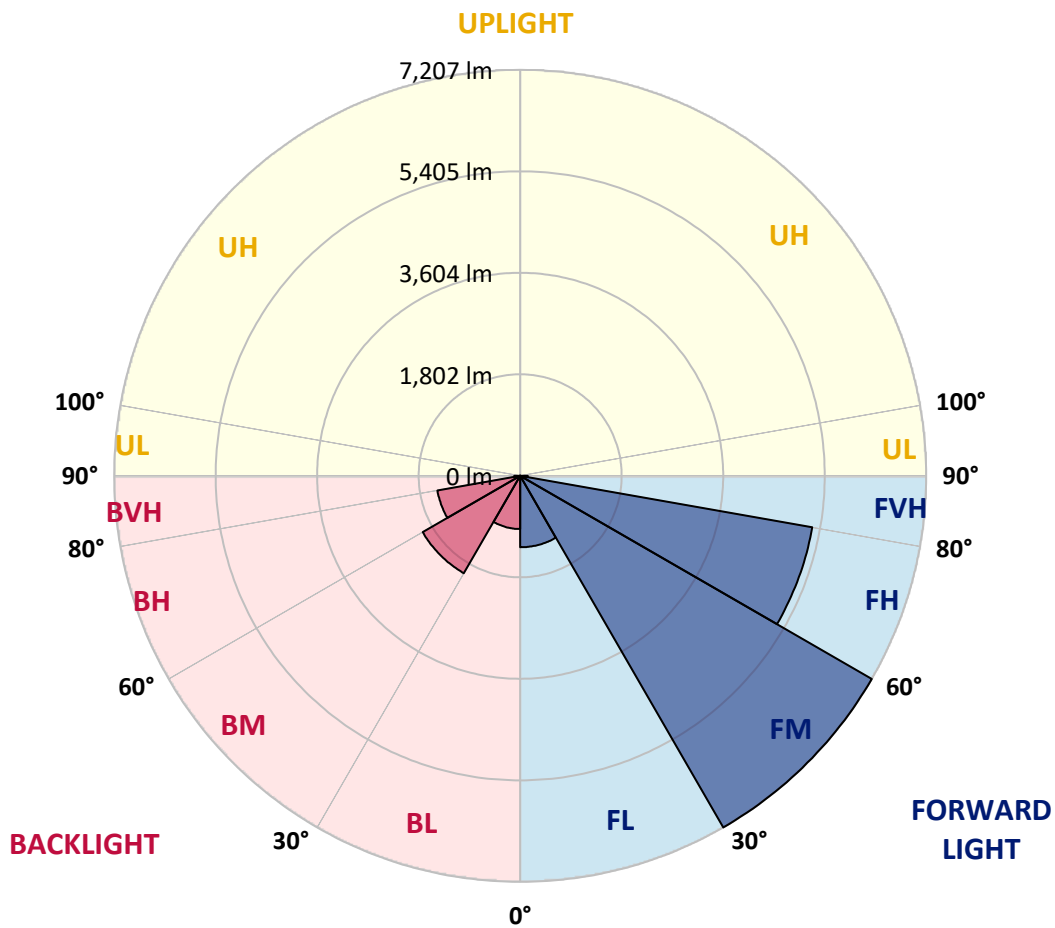
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1268.0	6.9			
FM (30°-60°)	7207.1	39.1			
FH (60°-80°)	5264.6	28.6			G3/7500
FVH (80°-90°)	134.8	0.7			G2/225
BL (0°-30°)	944.4	5.1	B2/1000		
BM (30°-60°)	1997.2	10.8	B2/2500		
BH (60°-80°)	1491.9	8.1	B3/2500		G3/2500
BVH (80°-90°)	106.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7
2.5°	2764.2	2779.8	2775.0	2770.1	2770.1	2763.2	2762.3	2752.5	2744.7	2732.0
5°	2799.4	2816.0	2814.0	2818.0	2830.7	2833.6	2836.5	2830.7	2815.0	2799.4
7.5°	2768.1	2786.7	2792.5	2816.0	2855.1	2890.3	2916.6	2927.4	2912.7	2890.3
10°	2662.6	2683.1	2703.6	2759.3	2828.7	2911.8	2982.1	3024.1	3021.2	2999.7
12.5°	2448.6	2470.1	2514.1	2622.5	2749.6	2896.1	3027.1	3115.0	3145.3	3129.6
15°	2277.6	2296.2	2329.4	2440.8	2605.9	2828.7	3043.7	3214.7	3291.8	3283.1
17.5°	2272.7	2280.5	2301.1	2353.8	2480.9	2723.2	3026.1	3312.4	3459.9	3458.9
20°	2358.7	2361.6	2373.4	2384.1	2456.4	2643.1	2981.1	3393.5	3648.5	3648.5
22.5°	2477.9	2476.0	2487.7	2477.9	2513.1	2636.2	2952.8	3464.8	3858.6	3874.2
25°	2656.7	2647.0	2644.0	2621.6	2628.4	2699.7	2984.1	3545.9	4107.7	4140.0
27.5°	2895.1	2879.5	2868.8	2817.0	2799.4	2830.7	3079.8	3643.6	4385.2	4440.9
30°	3205.9	3177.5	3161.9	3072.0	3008.5	3013.4	3224.4	3773.6	4675.4	4765.3
32.5°	3629.9	3586.0	3543.9	3396.4	3280.1	3242.0	3411.1	3953.3	4990.0	5133.7
35°	4104.8	4069.6	4024.7	3797.0	3618.2	3530.3	3663.1	4204.5	5358.4	5586.1
37.5°	4562.1	4531.8	4553.3	4246.5	4015.9	3887.9	3993.4	4541.6	5812.8	6148.9
40°	5035.0	5011.5	5014.5	4721.3	4452.6	4309.0	4394.0	4964.6	6333.6	6818.2
42.5°	5548.9	5531.4	5472.7	5212.8	4910.9	4777.0	4855.2	5453.2	6892.5	7580.3
45°	6124.5	6113.7	6059.0	5761.0	5415.1	5264.6	5370.1	5992.5	7454.3	8297.5
47.5°	6621.8	6630.6	6623.7	6372.6	6014.0	5793.2	5919.3	6555.4	7977.0	8971.7
50°	6861.2	6907.1	6974.5	6896.4	6673.6	6448.8	6473.3	7098.6	8475.4	9603.9
52.5°	6736.1	6823.1	7006.8	7131.8	7217.8	7170.9	7105.5	7638.0	8944.4	10174.5
55°	6270.0	6392.2	6697.0	6999.0	7437.7	7778.7	7864.7	8236.0	9401.6	10676.8
57.5°	5420.9	5619.3	5892.9	6503.6	7242.3	8072.8	8749.9	9065.5	9886.3	11213.2
60°	3965.1	4230.8	4570.9	5479.6	6558.3	7915.5	9503.3	10339.7	10575.1	11907.9
62.5°	2537.5	2701.7	3014.3	3870.3	5110.2	7109.4	9733.9	11932.3	11742.8	13047.2
65°	1737.3	1842.8	2129.1	2609.8	3303.6	5292.0	9116.3	13126.3	13597.3	14852.9
67.5°	1262.4	1342.5	1586.8	2007.9	2152.5	3131.6	7074.2	13071.6	15400.0	16713.3
70°	920.4	977.1	1182.3	1586.8	1656.2	1742.2	4285.6	11111.6	15361.0	17207.7
72.5°	682.0	721.1	858.9	1231.1	1340.6	1176.4	2121.3	8075.7	13199.6	15564.2
75°	493.4	522.7	624.4	941.9	1072.9	896.0	1058.2	4719.4	9207.2	10948.4
77.5°	377.2	399.6	466.1	689.8	858.9	672.2	656.6	2171.1	4365.7	4387.2
80°	302.9	317.6	353.7	485.6	658.6	503.2	428.0	876.5	1379.7	1167.6
82.5°	222.8	247.2	299.0	341.0	471.0	346.9	260.9	442.6	524.7	451.4
85°	127.0	143.6	180.8	244.3	300.9	212.0	149.5	196.4	244.3	200.3
87.5°	44.9	58.6	63.5	95.8	130.9	87.9	57.6	56.7	80.1	59.6
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°
2699.7	0°	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7	2699.7
2729.0	2.5°	2719.3	2714.4	2694.8	2668.5	2641.1	2614.7	2605.9	2587.4	2574.7	2567.8
2792.5	5°	2774.0	2758.3	2712.4	2653.8	2592.2	2525.8	2478.9	2435.9	2404.6	2375.3
2879.5	7.5°	2852.1	2824.8	2745.6	2643.1	2533.6	2423.2	2341.1	2278.6	2236.6	2209.2
2981.1	10°	2943.0	2901.0	2779.8	2626.4	2457.4	2299.1	2202.4	2148.6	2122.3	2107.6
3097.4	12.5°	3047.6	2988.0	2815.0	2588.3	2341.1	2160.4	2093.9	2078.3	2079.3	2080.2
3244.0	15°	3176.5	3093.5	2843.4	2505.3	2189.7	2053.9	2042.1	2067.5	2093.9	2106.6
3410.1	17.5°	3322.1	3204.9	2848.2	2368.5	2041.2	1985.5	2022.6	2077.3	2117.4	2135.0
3595.7	20°	3478.5	3318.2	2813.1	2175.0	1919.0	1929.8	1996.2	2066.6	2110.5	2133.0
3807.8	22.5°	3657.3	3439.4	2729.0	1971.8	1819.4	1869.2	1947.4	2015.8	2061.7	2084.2
4056.9	25°	3861.5	3575.2	2597.1	1800.8	1733.4	1800.8	1879.0	1935.6	1972.8	1993.3
4335.4	27.5°	4088.2	3716.9	2421.2	1665.0	1658.1	1730.4	1794.9	1838.9	1858.4	1874.1
4631.4	30°	4315.8	3845.9	2208.2	1562.4	1592.7	1661.1	1707.0	1726.5	1732.4	1735.3
4961.7	32.5°	4562.1	3957.2	1984.5	1477.4	1530.1	1593.6	1621.0	1629.8	1602.4	1583.9
5362.3	35°	4860.1	4076.5	1765.6	1410.0	1468.6	1523.3	1532.1	1524.3	1492.0	1453.9
5864.5	37.5°	5228.5	4225.0	1590.7	1362.1	1410.9	1447.1	1436.3	1434.4	1437.3	1392.4
6468.4	40°	5679.9	4418.4	1462.7	1324.9	1364.0	1371.8	1341.6	1358.2	1372.8	1304.4
7130.9	42.5°	6181.1	4652.0	1381.6	1299.5	1324.9	1306.4	1259.5	1278.0	1276.1	1186.2
7796.3	45°	6692.1	4906.0	1353.3	1281.0	1288.8	1251.7	1199.9	1204.8	1163.7	1082.6
8434.3	47.5°	7200.2	5178.6	1370.9	1265.3	1243.8	1201.8	1161.8	1140.3	1079.7	1019.1
9046.0	50°	7698.6	5464.9	1435.4	1234.1	1182.3	1157.9	1128.5	1090.4	1026.0	974.2
9624.4	52.5°	8160.7	5753.2	1507.7	1182.3	1105.1	1119.8	1101.2	1057.2	993.7	940.9
10171.6	55°	8598.5	6041.4	1536.0	1111.0	1032.8	1086.5	1075.8	994.7	918.5	875.5
10744.2	57.5°	9075.3	6388.3	1504.7	1020.1	974.2	1048.4	1007.4	917.5	873.5	841.3
11489.7	60°	9735.8	6932.5	1437.3	907.7	918.5	991.8	921.4	884.3	836.4	800.2
12607.5	62.5°	10833.1	7947.7	1328.9	796.3	853.0	907.7	880.4	843.2	794.4	759.2
14518.7	65°	12455.1	9358.6	1124.6	709.4	779.7	825.6	836.4	799.3	748.5	711.3
16193.5	67.5°	13823.0	10243.9	851.1	637.1	704.5	759.2	789.5	753.3	699.6	663.4
16585.3	70°	13747.8	9601.0	649.8	565.7	638.0	693.7	732.8	704.5	646.8	612.6
15064.9	72.5°	12210.8	8031.7	525.7	493.4	570.6	625.3	672.2	650.7	592.1	558.9
11036.3	75°	8970.7	5701.4	420.2	420.2	486.6	554.0	605.8	592.1	538.4	514.9
4633.4	77.5°	3781.4	2391.9	329.3	348.8	404.5	475.8	540.3	545.2	498.3	527.6
1225.3	80°	1005.4	659.5	251.1	274.6	317.6	392.8	470.0	468.0	417.2	389.9
455.3	82.5°	383.0	259.9	178.8	193.5	229.6	300.9	372.3	384.0	333.2	288.2
178.8	85°	147.5	111.4	110.4	116.3	133.9	199.3	281.4	291.2	251.1	213.0
49.8	87.5°	38.1	33.2	41.0	39.1	61.6	106.5	161.2	167.1	153.4	88.9
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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180°
2699.7
2575.6
2387.1
2215.1
2111.5
2082.2
2105.6
2138.9
2138.9
2090.0
1999.1
1879.9
1742.2
1589.7
1455.9
1395.3
1306.4
1185.2
1085.6
1019.1
970.3
941.9
871.6
838.4
798.3
759.2
713.3
664.4
615.6
558.9
508.1
478.8
362.5
288.2
219.8
127.0
0.0

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