

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: P940737

Luminaire Tested: **GALN-SB3D-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22139 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

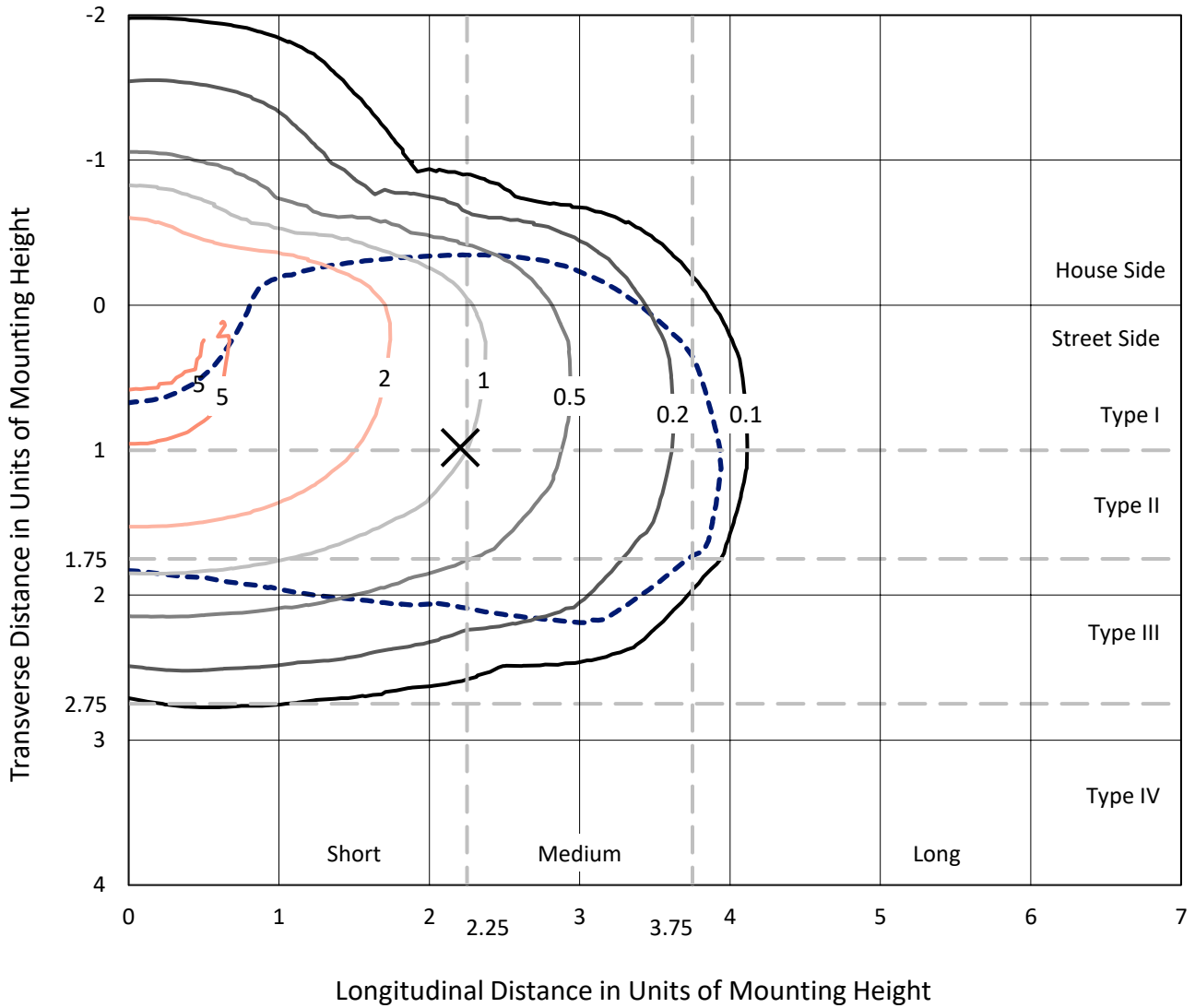
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

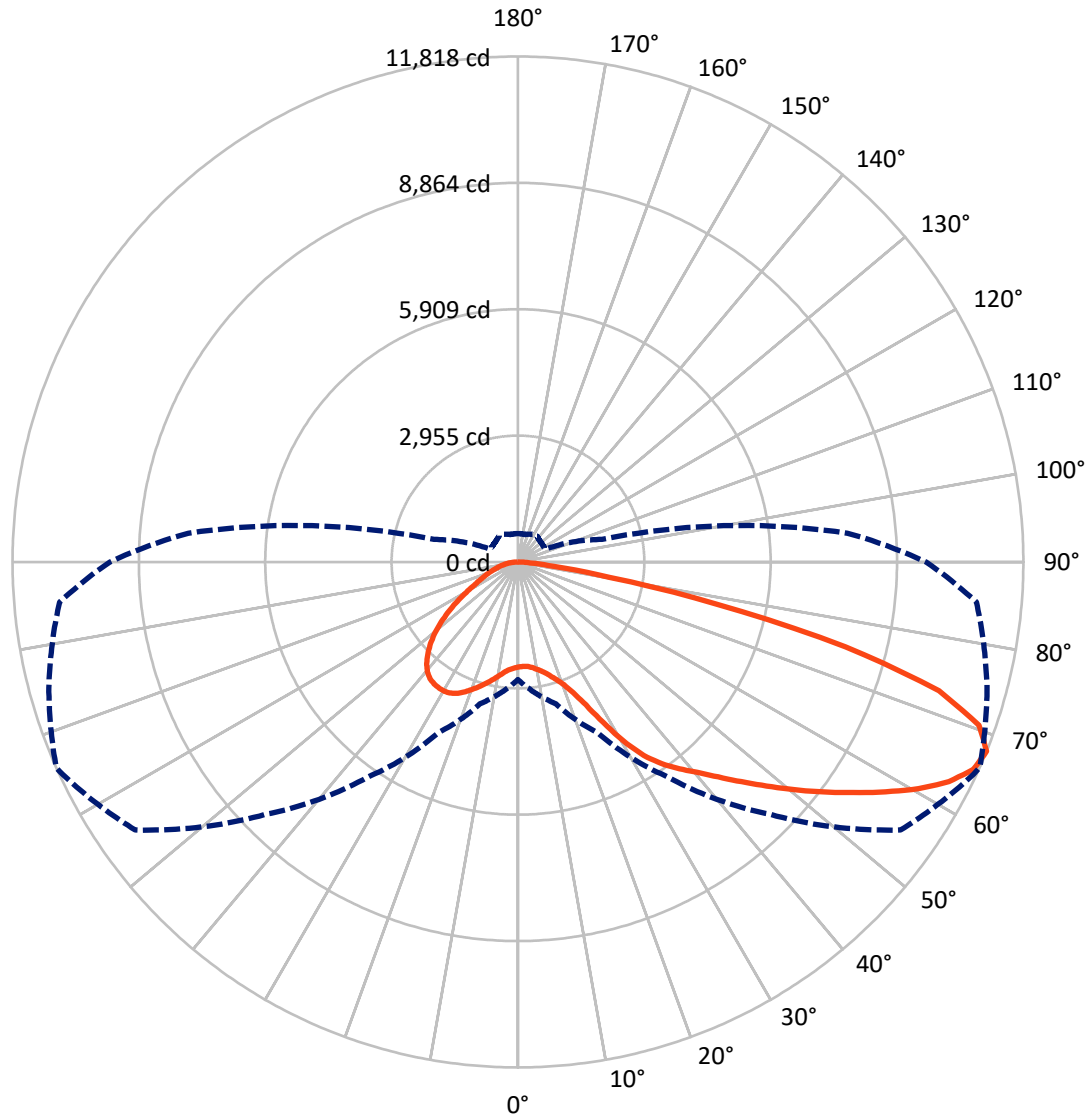
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5504.8	0.0	5504.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	16634.2	0.0	16634.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	22139.0	0.0	22139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	1.1
10°-20°	804.3	3.6
20°-30°	1550.3	7.0
30°-40°	2718.3	12.3
40°-50°	4041.2	18.3
50°-60°	5122.6	23.1
60°-70°	5012.3	22.6
70°-80°	2390.9	10.8
80°-90°	255.5	1.2
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°	22139.0	100.0
0°-180°	22139.0	100.0

Coefficient of Utilization



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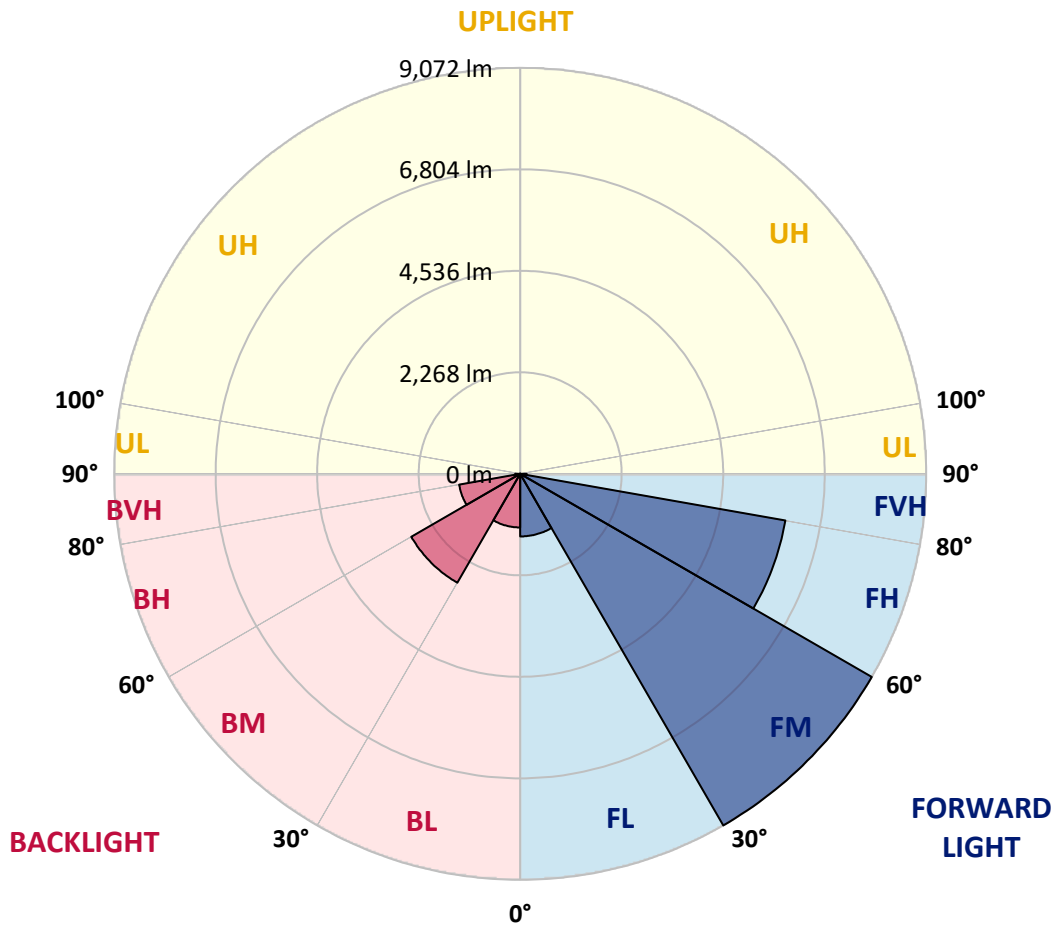
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1399.0	6.3			
FM (30°-60°)	9072.4	41.0			
FH (60°-80°)	6018.0	27.2			G3/7500
FVH (80°-90°)	144.9	0.7			G2/225
BL (0°-30°)	1199.1	5.4	B3/2500		
BM (30°-60°)	2809.7	12.7	B3/5000		
BH (60°-80°)	1385.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	110.7	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2455.5	2455.5	2455.5	2455.5	2455.5	2455.5	2455.5	2455.5	2455.5	2455.5
2.5°	2429.9	2443.9	2440.4	2434.6	2433.4	2435.7	2439.2	2442.7	2441.5	2447.4
5°	2422.9	2436.9	2435.7	2435.7	2440.4	2449.7	2455.5	2461.3	2455.5	2462.5
7.5°	2427.6	2438.1	2442.7	2447.4	2459.0	2476.4	2490.4	2503.2	2496.2	2504.4
10°	2486.9	2495.1	2499.7	2499.7	2507.9	2527.6	2541.6	2564.8	2559.0	2571.8
12.5°	2595.1	2603.2	2603.2	2598.6	2604.4	2617.2	2621.8	2647.4	2637.0	2657.9
15°	2727.7	2744.0	2731.2	2723.0	2725.4	2738.2	2737.0	2756.8	2746.3	2763.8
17.5°	2874.3	2895.2	2874.3	2873.1	2868.4	2882.4	2883.6	2901.0	2882.4	2895.2
20°	3047.6	3076.7	3059.2	3065.0	3054.6	3060.4	3066.2	3091.8	3062.7	3072.0
22.5°	3291.8	3326.7	3308.1	3330.2	3323.3	3318.6	3317.4	3362.8	3317.4	3320.9
25°	3647.8	3689.7	3657.1	3687.3	3687.3	3702.5	3719.9	3778.1	3702.5	3680.4
27.5°	4173.5	4215.4	4151.4	4170.1	4164.2	4201.5	4182.9	4327.1	4245.7	4209.6
30°	4806.3	4880.8	4759.8	4755.1	4749.3	4808.7	4835.4	4930.8	4848.2	4812.1
32.5°	5490.3	5568.2	5424.0	5382.1	5360.0	5396.1	5374.0	5450.7	5393.7	5337.9
35°	6213.8	6290.6	6153.3	6071.9	5983.5	5907.9	5828.8	5848.6	5795.0	5710.1
37.5°	6897.8	7038.5	6893.1	6805.9	6643.0	6495.3	6274.3	6182.4	6132.4	6054.4
40°	7594.5	7674.8	7564.3	7489.8	7313.0	7081.5	6727.9	6533.7	6466.2	6390.6
42.5°	8107.5	8184.3	8124.9	8073.7	7935.3	7666.6	7209.5	6966.4	6868.7	6783.8
45°	8514.6	8571.6	8534.4	8553.0	8493.7	8233.1	7708.5	7430.5	7329.3	7225.8
47.5°	8678.6	8739.1	8798.4	8908.9	9010.1	8818.2	8244.7	7933.0	7826.0	7720.1
50°	8660.0	8721.6	8893.8	9128.8	9442.8	9378.9	8810.0	8468.1	8369.2	8248.2
52.5°	8511.1	8580.9	8801.9	9192.7	9692.9	9798.8	9385.8	9020.6	8927.5	8783.3
55°	8120.3	8162.1	8493.7	9047.3	9752.2	10091.9	9950.0	9609.2	9516.1	9314.9
57.5°	7395.6	7456.1	7938.8	8655.3	9603.3	10290.8	10445.5	10228.0	10138.4	9848.8
60°	6449.9	6546.5	7099.0	7997.0	9224.1	10289.6	10895.7	10836.3	10761.9	10374.5
62.5°	5379.8	5491.5	6023.0	7066.4	8561.1	9997.7	11177.2	11345.8	11307.4	10859.6
65°	4131.7	4208.4	4737.7	5862.5	7529.4	9370.7	11209.7	11693.6	11700.6	11228.3
67.5°	2751.0	2972.0	3431.4	4399.2	6147.5	8345.9	10923.6	11750.6	11818.1	11355.1
70°	1342.3	1633.1	2083.3	2859.1	4399.2	6774.5	10175.6	11283.0	11433.1	10985.2
72.5°	557.2	651.4	896.8	1411.0	2525.3	4571.4	8672.8	10015.1	10293.1	9733.6
75°	375.7	407.1	513.0	723.5	1150.4	2254.3	6254.5	7467.7	7915.6	7351.4
77.5°	289.6	309.4	373.4	506.0	684.0	852.6	3347.7	4500.4	4731.9	4380.6
80°	228.0	243.1	279.2	368.7	485.1	456.0	1141.1	2039.1	2172.9	1822.7
82.5°	197.7	203.6	200.1	250.1	322.2	266.4	374.5	752.6	830.5	602.5
85°	143.1	159.4	166.3	154.7	171.0	134.9	153.5	266.4	293.1	261.7
87.5°	58.2	86.1	105.9	100.0	62.8	38.4	47.7	77.9	89.6	97.7
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°
2455.5	0°	2455.5	2455.5	2455.5	2455.5	2455.5	2455.5	2455.5	2455.5	2455.5	2455.5
2456.7	2.5°	2457.8	2466.0	2471.8	2478.8	2483.4	2490.4	2504.4	2512.5	2513.7	2519.5
2475.3	5°	2479.9	2491.6	2504.4	2523.0	2543.9	2561.4	2588.1	2606.7	2613.7	2619.5
2520.6	7.5°	2527.6	2543.9	2567.2	2599.7	2630.0	2653.3	2685.8	2707.9	2730.0	2738.2
2592.8	10°	2598.6	2621.8	2655.6	2699.8	2732.3	2762.6	2796.3	2814.9	2837.0	2846.3
2678.8	12.5°	2687.0	2711.4	2755.6	2817.3	2847.5	2868.4	2880.1	2875.4	2880.1	2888.2
2782.4	15°	2788.2	2814.9	2865.0	2931.3	2952.2	2933.6	2908.0	2884.7	2881.2	2883.6
2908.0	17.5°	2908.0	2927.8	2985.9	3041.8	3026.6	2949.9	2894.0	2856.8	2838.2	2832.4
3068.5	20°	3075.5	3075.5	3123.2	3158.1	3056.9	2926.6	2839.4	2778.9	2740.5	2724.2
3287.2	22.5°	3279.1	3260.4	3290.7	3266.3	3051.1	2861.5	2740.5	2635.8	2577.6	2554.4
3593.1	25°	3537.3	3515.2	3507.0	3355.8	3009.2	2757.9	2561.4	2434.6	2383.4	2370.6
4034.0	27.5°	3927.0	3871.1	3765.3	3404.7	2932.4	2595.1	2352.0	2234.5	2205.4	2206.6
4600.4	30°	4445.7	4334.1	4074.7	3412.8	2806.8	2364.8	2138.0	2054.2	2040.2	2046.1
5076.2	32.5°	4926.1	4820.3	4391.1	3375.6	2613.7	2139.1	1946.0	1890.2	1869.3	1876.2
5439.1	35°	5303.0	5273.9	4684.2	3323.3	2376.4	1927.4	1773.9	1726.2	1685.5	1676.2
5781.1	37.5°	5659.0	5647.3	4904.0	3250.0	2141.4	1777.4	1635.5	1572.6	1513.3	1480.7
6159.1	40°	6049.8	6038.2	5048.3	3137.1	1933.2	1647.1	1511.0	1428.4	1355.1	1295.8
6587.2	42.5°	6489.5	6420.8	5116.9	2975.5	1756.4	1536.6	1409.8	1298.1	1201.6	1146.9
7071.1	45°	6969.9	6815.2	5115.7	2769.6	1607.5	1435.4	1301.6	1143.4	1053.9	1002.7
7567.8	47.5°	7479.4	7192.0	5052.9	2541.6	1463.3	1323.7	1134.1	1013.1	953.8	922.4
8107.5	50°	8005.1	7544.5	4945.9	2279.9	1315.6	1196.9	1029.4	946.8	901.5	872.4
8642.5	52.5°	8499.5	7864.4	4816.8	1983.2	1165.5	1073.6	982.9	918.9	871.2	838.7
9161.3	55°	8958.9	8140.0	4634.2	1679.7	1043.4	991.0	960.8	907.3	852.6	814.2
9688.3	57.5°	9367.2	8319.2	4318.9	1394.7	956.1	934.0	937.5	887.5	824.7	792.1
10207.0	60°	9706.9	8450.6	3852.5	1130.6	885.2	878.2	901.5	850.3	777.0	739.8
10645.6	62.5°	9910.4	8448.3	3280.2	925.9	824.7	827.0	853.8	803.8	729.3	694.4
10874.7	65°	9893.0	8241.2	2652.1	792.1	766.5	768.9	803.8	752.6	689.8	668.8
10759.6	67.5°	9542.9	7736.4	2034.4	704.9	702.6	713.0	753.8	717.7	665.3	663.0
10073.3	70°	8594.9	6688.4	1465.6	635.1	636.3	651.4	704.9	695.6	652.6	657.2
8469.2	72.5°	6891.9	5099.5	984.1	561.8	563.0	587.4	658.4	678.1	639.8	701.4
6009.1	75°	4590.0	3180.2	632.8	483.9	485.1	516.5	617.7	644.4	604.9	699.1
3126.7	77.5°	2205.4	1429.6	458.3	407.1	407.1	436.2	533.9	576.9	515.3	543.2
1005.0	80°	761.9	537.4	360.6	328.0	321.0	340.8	450.2	500.2	444.3	409.4
328.0	82.5°	300.1	279.2	289.6	254.7	231.5	244.3	350.1	412.9	326.9	295.5
184.9	85°	172.2	181.5	204.7	168.7	133.8	150.1	257.1	296.6	246.6	217.5
60.5	87.5°	46.5	64.0	94.2	87.2	60.5	64.0	122.1	164.0	141.9	109.3
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>
2455.5
2518.3
2618.4
2739.3
2851.0
2890.5
2891.7
2840.5
2720.7
2550.9
2372.9
2210.1
2065.8
1885.5
1683.1
1481.9
1301.6
1150.4
1000.3
915.4
861.9
824.7
799.1
771.2
723.5
684.0
667.7
666.5
656.0
710.7
704.9
497.8
383.9
294.3
222.2
112.8
0.0

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