

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: P939947

Luminaire Tested: **GALN-SB2D-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939947
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-SB2D-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21545 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

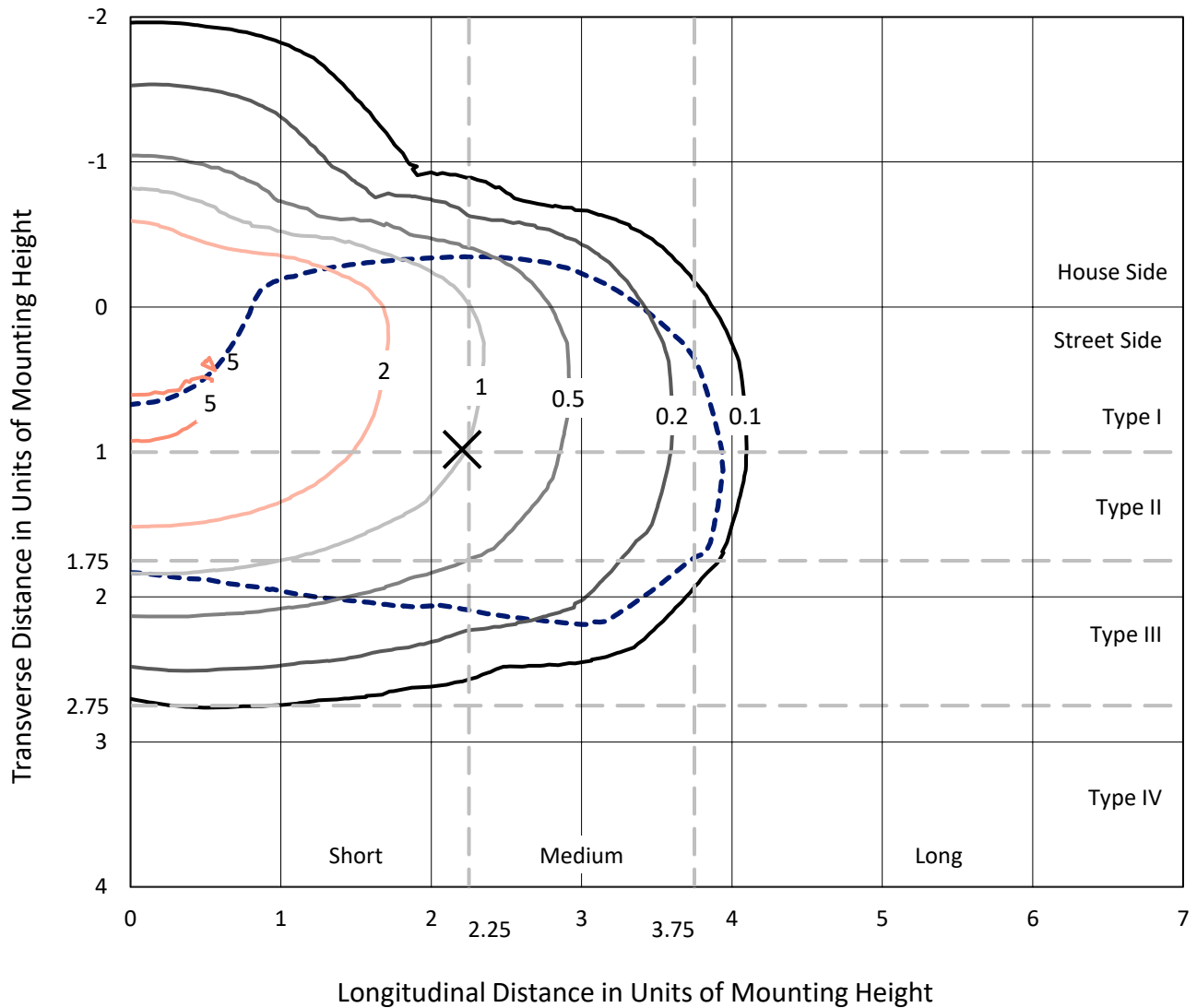
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

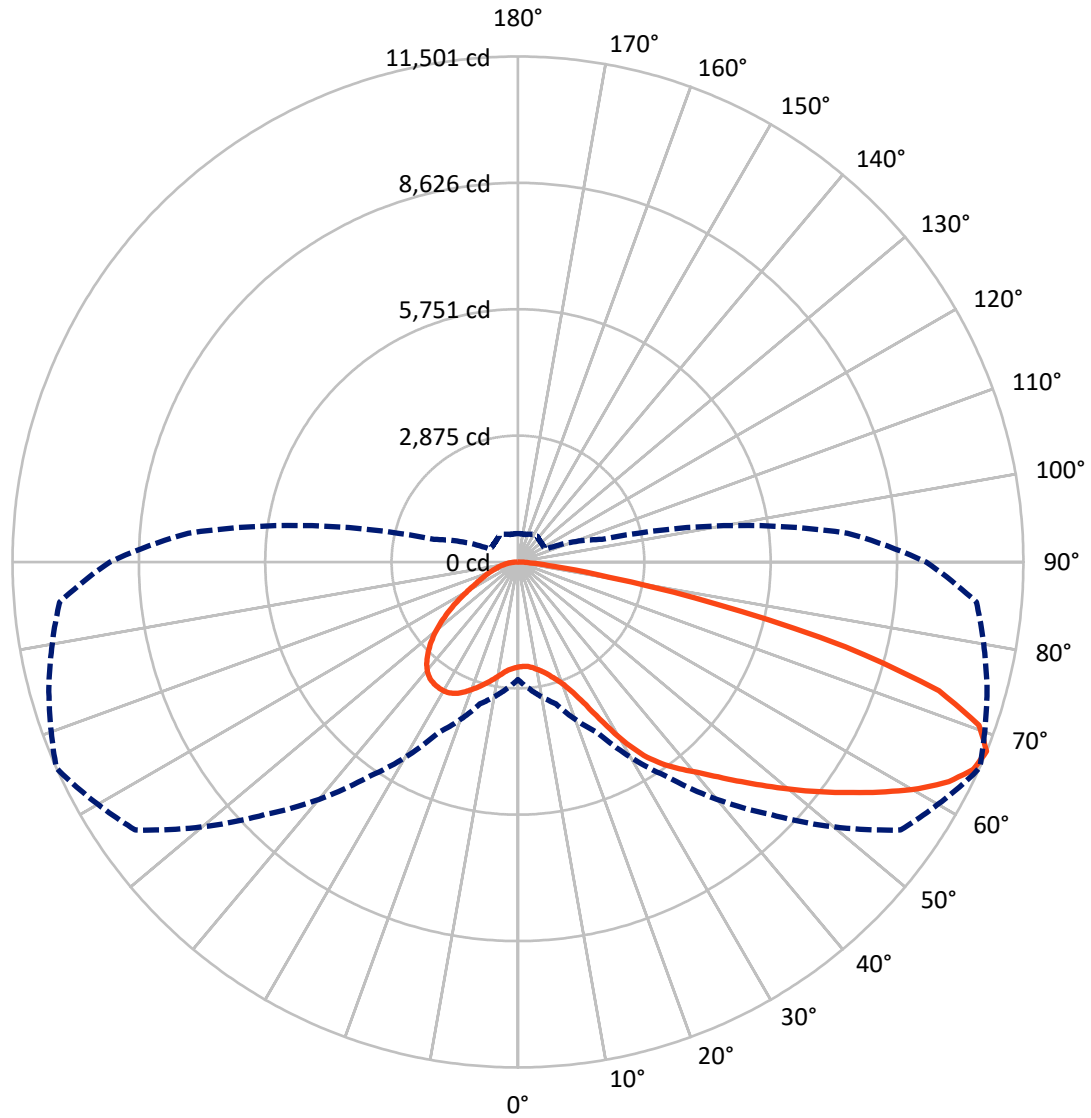
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	5357.1	0.0	5357.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	16187.9	0.0	16187.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	21545.0	0.0	21545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.9	1.1
10°-20°	782.8	3.6
20°-30°	1508.7	7.0
30°-40°	2645.4	12.3
40°-50°	3932.8	18.3
50°-60°	4985.2	23.1
60°-70°	4877.9	22.6
70°-80°	2326.8	10.8
80°-90°	248.7	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°	21545.0	100.0
0°-180°	21545.0	100.0

Coefficient of Utilization



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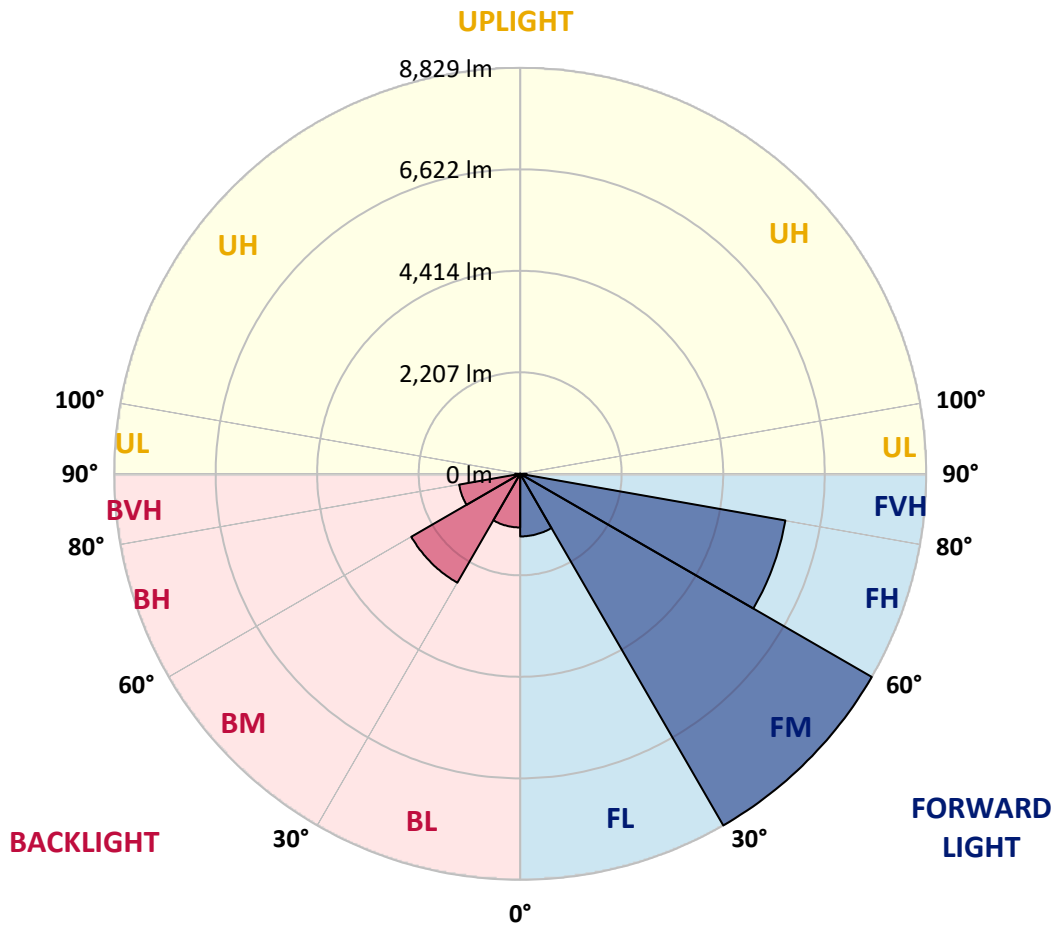
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1361.4	6.3			
FM (30°-60°)	8829.0	41.0			
FH (60°-80°)	5856.5	27.2			G3/7500
FVH (80°-90°)	141.0	0.7			G2/225
BL (0°-30°)	1167.0	5.4	B3/2500		
BM (30°-60°)	2734.3	12.7	B3/5000		
BH (60°-80°)	1348.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	107.7	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°	2389.6	2389.6	2389.6	2389.6	2389.6	2389.6	2389.6	2389.6	2389.6	2389.6
2.5°	2364.7	2378.3	2374.9	2369.2	2368.1	2370.4	2373.8	2377.2	2376.0	2381.7
5°	2357.9	2371.5	2370.4	2370.4	2374.9	2384.0	2389.6	2395.3	2389.6	2396.4
7.5°	2362.5	2372.6	2377.2	2381.7	2393.0	2410.0	2423.6	2436.0	2429.2	2437.2
10°	2420.2	2428.1	2432.6	2432.6	2440.6	2459.8	2473.4	2496.0	2490.4	2502.8
12.5°	2525.5	2533.4	2533.4	2528.9	2534.5	2547.0	2551.5	2576.4	2566.2	2586.6
15°	2654.5	2670.4	2657.9	2650.0	2652.2	2664.7	2663.6	2682.8	2672.6	2689.6
17.5°	2797.1	2817.5	2797.1	2796.0	2791.5	2805.1	2806.2	2823.2	2805.1	2817.5
20°	2965.8	2994.1	2977.1	2982.8	2972.6	2978.3	2983.9	3008.8	2980.5	2989.6
22.5°	3203.5	3237.5	3219.4	3240.9	3234.1	3229.6	3228.4	3272.6	3228.4	3231.8
25°	3549.9	3590.7	3559.0	3588.4	3588.4	3603.1	3620.1	3676.7	3603.1	3581.6
27.5°	4061.6	4102.3	4040.1	4058.2	4052.5	4088.7	4070.6	4211.0	4131.8	4096.7
30°	4677.4	4749.8	4632.1	4627.6	4621.9	4679.6	4705.7	4798.5	4718.1	4683.0
32.5°	5343.0	5418.8	5278.5	5237.7	5216.2	5251.3	5229.8	5304.5	5249.0	5194.7
35°	6047.1	6121.8	5988.2	5909.0	5822.9	5749.4	5672.4	5691.6	5639.6	5556.9
37.5°	6712.7	6849.7	6708.2	6623.3	6464.8	6321.0	6105.9	6016.5	5967.8	5892.0
40°	7390.7	7468.9	7361.3	7288.9	7116.8	6891.5	6547.4	6358.4	6292.7	6219.1
42.5°	7890.0	7964.7	7906.9	7857.1	7722.4	7460.9	7016.1	6779.5	6684.4	6601.8
45°	8286.1	8341.6	8305.4	8323.5	8265.8	8012.2	7501.7	7231.1	7132.7	7031.9
47.5°	8445.8	8504.6	8562.4	8669.9	8768.4	8581.6	8023.5	7720.2	7616.0	7513.0
50°	8427.6	8487.6	8655.2	8883.8	9189.5	9127.2	8573.7	8240.9	8144.6	8026.9
52.5°	8282.8	8350.7	8565.7	8946.1	9432.9	9535.9	9134.0	8778.6	8688.0	8547.6
55°	7902.4	7943.2	8265.8	8804.6	9490.6	9821.1	9683.0	9351.3	9260.8	9065.0
57.5°	7197.2	7256.0	7725.8	8423.1	9345.7	10014.7	10165.2	9953.6	9866.4	9584.5
60°	6276.9	6370.8	6908.5	7782.4	8976.7	10013.6	10603.3	10545.6	10473.1	10096.2
62.5°	5235.4	5344.1	5861.4	6876.8	8331.4	9729.4	10877.3	11041.4	11004.0	10568.2
65°	4020.8	4095.5	4610.6	5705.2	7327.4	9119.3	10909.0	11379.9	11386.7	10927.1
67.5°	2677.2	2892.2	3339.4	4281.2	5982.6	8122.0	10630.5	11435.3	11501.0	11050.5
70°	1306.3	1589.3	2027.4	2782.4	4281.2	6592.7	9902.6	10980.3	11126.3	10690.5
72.5°	542.2	633.9	872.8	1373.1	2457.5	4448.7	8440.1	9746.4	10017.0	9472.5
75°	365.6	396.2	499.2	704.1	1119.5	2193.8	6086.7	7267.4	7703.2	7154.2
77.5°	281.9	301.1	363.4	492.4	665.6	829.7	3257.9	4379.7	4604.9	4263.1
80°	221.9	236.6	271.7	358.8	472.0	443.7	1110.5	1984.4	2114.6	1773.8
82.5°	192.4	198.1	194.7	243.4	313.6	259.2	364.5	732.4	808.2	586.4
85°	139.2	155.1	161.9	150.6	166.4	131.3	149.4	259.2	285.3	254.7
87.5°	56.6	83.8	103.0	97.4	61.1	37.4	46.4	75.8	87.2	95.1
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°
2389.6	0°	2389.6	2389.6	2389.6	2389.6	2389.6	2389.6	2389.6	2389.6	2389.6	2389.6
2390.8	2.5°	2391.9	2399.8	2405.5	2412.3	2416.8	2423.6	2437.2	2445.1	2446.2	2451.9
2408.9	5°	2413.4	2424.7	2437.2	2455.3	2475.7	2492.6	2518.7	2536.8	2543.6	2549.2
2453.0	7.5°	2459.8	2475.7	2498.3	2530.0	2559.4	2582.1	2613.8	2635.3	2656.8	2664.7
2523.2	10°	2528.9	2551.5	2584.3	2627.3	2659.0	2688.5	2721.3	2739.4	2760.9	2770.0
2607.0	12.5°	2614.9	2638.7	2681.7	2741.7	2771.1	2791.5	2802.8	2798.3	2802.8	2810.7
2707.7	15°	2713.4	2739.4	2788.1	2852.6	2873.0	2854.9	2830.0	2807.3	2803.9	2806.2
2830.0	17.5°	2830.0	2849.2	2905.8	2960.1	2945.4	2870.7	2816.4	2780.2	2762.0	2756.4
2986.2	20°	2993.0	2993.0	3039.4	3073.3	2974.9	2848.1	2763.2	2704.3	2667.0	2651.1
3199.0	22.5°	3191.1	3173.0	3202.4	3178.6	2969.2	2784.7	2667.0	2565.1	2508.5	2485.8
3496.7	25°	3442.4	3420.9	3412.9	3265.8	2928.5	2683.9	2492.6	2369.2	2319.4	2307.0
3925.7	27.5°	3821.6	3767.3	3664.2	3313.3	2853.7	2525.5	2288.9	2174.5	2146.2	2147.4
4477.0	30°	4326.5	4217.8	3965.4	3321.3	2731.5	2301.3	2080.6	1999.1	1985.5	1991.2
4940.0	32.5°	4794.0	4691.0	4273.3	3285.0	2543.6	2081.7	1893.8	1839.5	1819.1	1825.9
5293.2	35°	5160.7	5132.4	4558.5	3234.1	2312.7	1875.7	1726.3	1679.9	1640.2	1631.2
5626.0	37.5°	5507.1	5495.8	4772.5	3162.8	2084.0	1729.7	1591.6	1530.4	1472.7	1441.0
5993.9	40°	5887.5	5876.1	4912.8	3053.0	1881.4	1602.9	1470.5	1390.1	1318.8	1261.0
6410.4	42.5°	6315.4	6248.6	4979.6	2895.6	1709.3	1495.4	1372.0	1263.3	1169.3	1116.1
6881.4	45°	6782.9	6632.3	4978.5	2695.3	1564.4	1396.9	1266.7	1112.7	1025.6	975.8
7364.7	47.5°	7278.7	6999.1	4917.4	2473.4	1424.0	1288.2	1103.7	986.0	928.2	897.7
7890.0	50°	7790.3	7342.1	4813.2	2218.7	1280.3	1164.8	1001.8	921.4	877.3	849.0
8410.7	52.5°	8271.4	7653.4	4687.6	1930.0	1134.3	1044.8	956.5	894.3	847.9	816.2
8915.5	55°	8718.6	7921.6	4509.8	1634.6	1015.4	964.5	935.0	883.0	829.7	792.4
9428.3	57.5°	9115.9	8096.0	4203.1	1357.3	930.5	909.0	912.4	863.7	802.6	770.9
9933.2	60°	9446.4	8223.9	3749.1	1100.3	861.4	854.7	877.3	827.5	756.2	719.9
10359.9	62.5°	9644.5	8221.6	3192.2	901.1	802.6	804.8	830.9	782.2	709.8	675.8
10582.9	65°	9627.6	8020.1	2580.9	770.9	746.0	748.2	782.2	732.4	671.3	650.9
10470.9	67.5°	9286.8	7528.8	1979.8	686.0	683.7	693.9	733.5	698.4	647.5	645.2
9803.0	70°	8364.3	6508.9	1426.3	618.1	619.2	633.9	686.0	676.9	635.0	639.6
8242.0	72.5°	6707.0	4962.6	957.7	546.7	547.9	571.7	640.7	659.9	622.6	682.6
5847.8	75°	4466.8	3094.9	615.8	470.9	472.0	502.6	601.1	627.1	588.6	680.3
3042.8	77.5°	2146.2	1391.2	446.0	396.2	396.2	424.5	519.6	561.5	501.5	528.6
978.0	80°	741.5	523.0	350.9	319.2	312.4	331.7	438.1	486.8	432.4	398.5
319.2	82.5°	292.1	271.7	281.9	247.9	225.3	237.7	340.7	401.9	318.1	287.5
180.0	85°	167.5	176.6	199.2	164.1	130.2	146.0	250.2	288.7	240.0	211.7
58.9	87.5°	45.3	62.3	91.7	84.9	58.9	62.3	118.9	159.6	138.1	106.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
2389.6
2450.8
2548.1
2665.8
2774.5
2813.0
2814.1
2764.3
2647.7
2482.4
2309.3
2150.8
2010.4
1835.0
1638.0
1442.2
1266.7
1119.5
973.5
890.9
838.8
802.6
777.7
750.5
704.1
665.6
649.8
648.6
638.4
691.6
686.0
484.5
373.6
286.4
216.2
109.8
0.0

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