

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: P949214

Luminaire Tested: **GALN-SB4A-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-740-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19275 lumens
Efficiency: N/A
Efficacy: 169.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

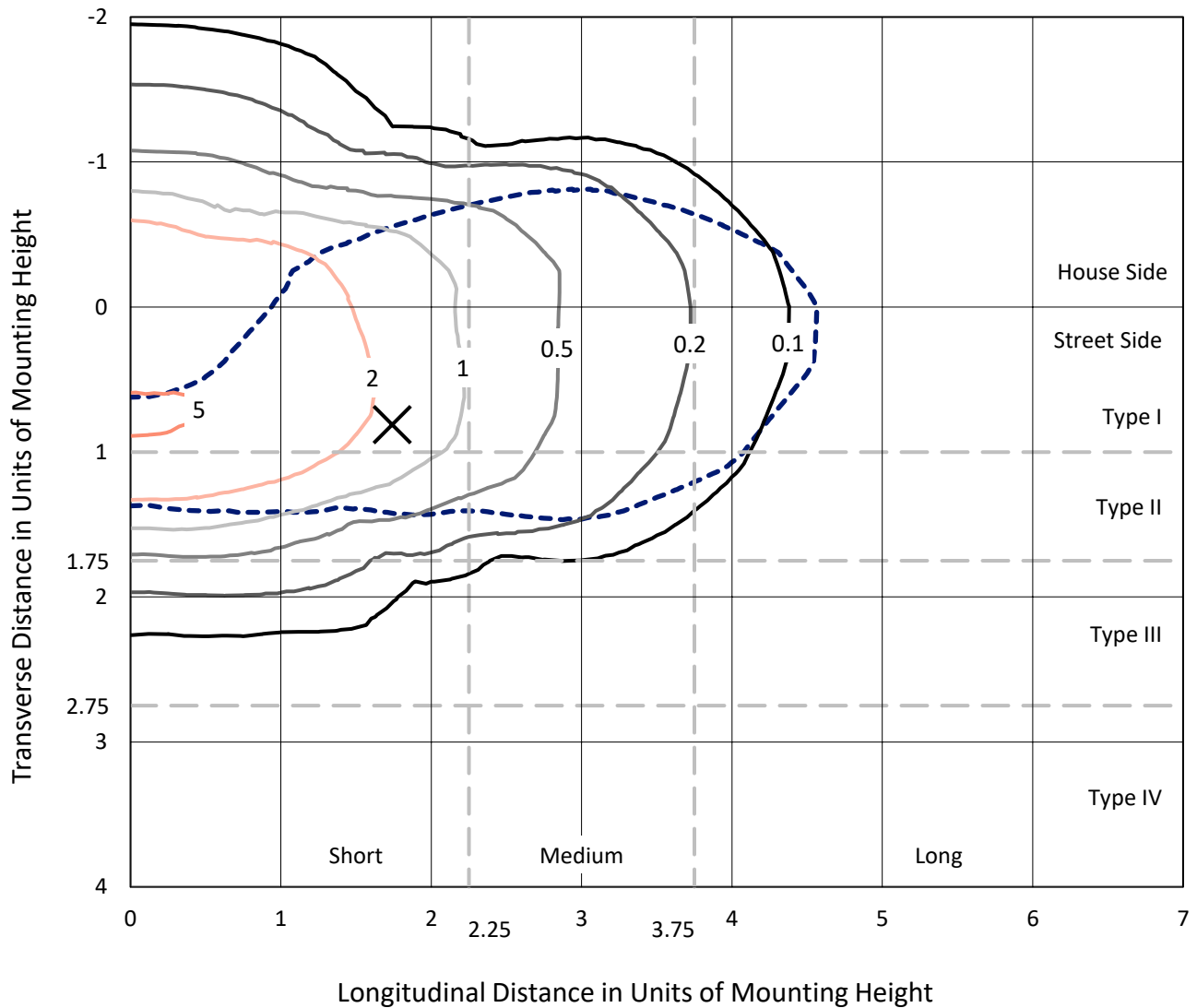
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

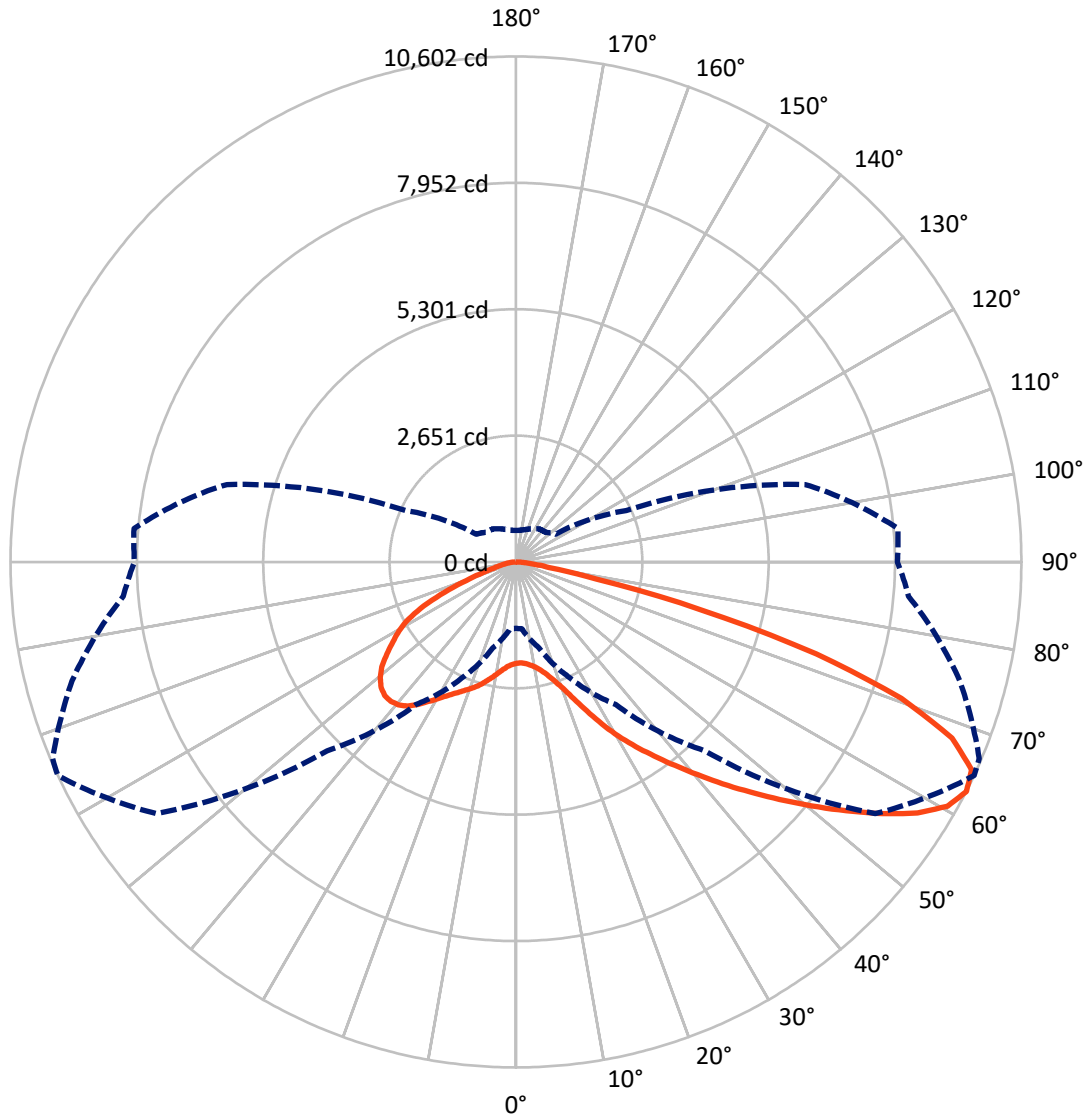
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6082.3	0.0	6082.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	13192.7	0.0	13192.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	19275.0	0.0	19275.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	1.1
10°-20°	718.1	3.7
20°-30°	1456.0	7.6
30°-40°	2519.6	13.1
40°-50°	3813.0	19.8
50°-60°	4470.5	23.2
60°-70°	3748.0	19.4
70°-80°	2069.2	10.7
80°-90°	268.8	1.4
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°	19275.0	100.0
0°-180°	19275.0	100.0



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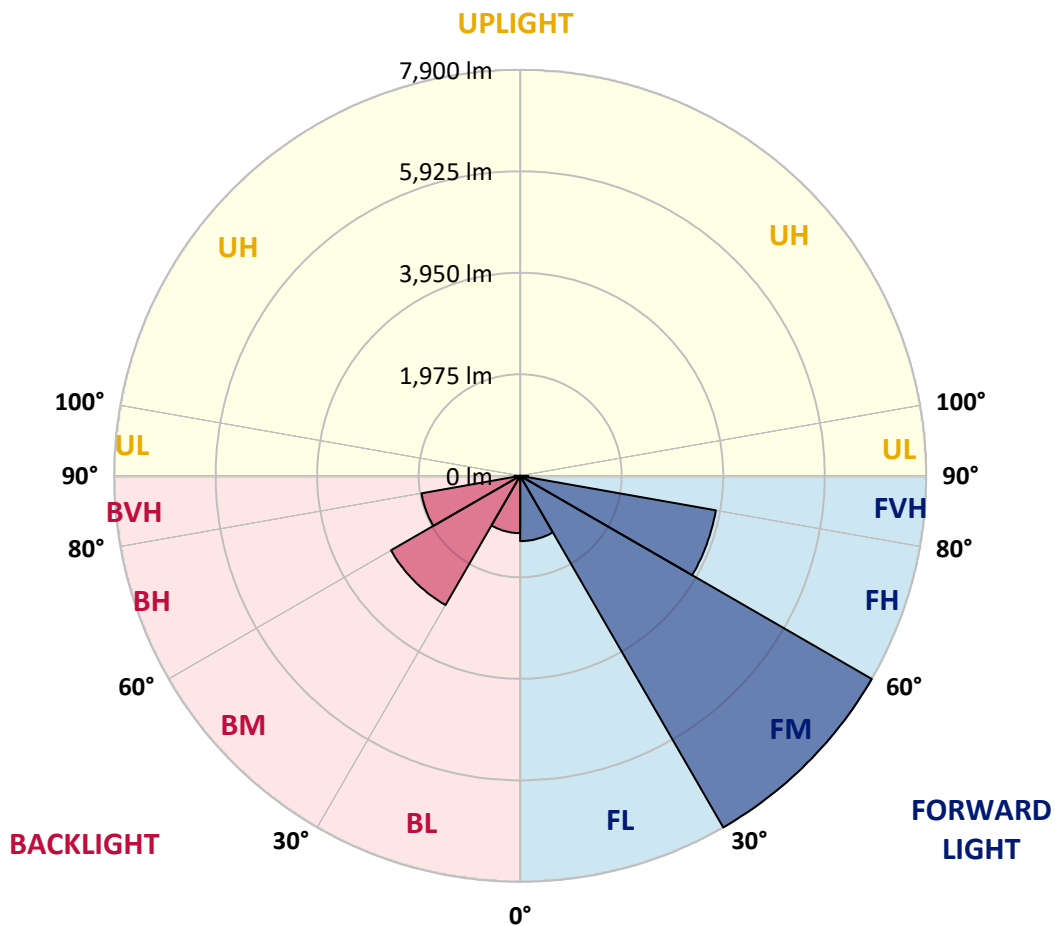
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1270.5	6.6			
FM (30°-60°)	7899.5	41.0			
FH (60°-80°)	3866.0	20.1			G2/5000
FVH (80°-90°)	156.6	0.8			G2/225
BL (0°-30°)	1115.4	5.8	B3/2500		
BM (30°-60°)	2903.6	15.1	B3/5000		
BH (60°-80°)	1951.2	10.1	B3/2500		G3/2500
BVH (80°-90°)	112.1	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2124.0	2124.0	2124.0	2124.0	2124.0	2124.0	2124.0	2124.0	2124.0	2124.0
2.5°	2110.0	2104.0	2109.0	2109.0	2111.0	2110.0	2117.0	2119.0	2122.0	2128.0
5°	2089.0	2088.0	2097.0	2105.0	2113.0	2120.0	2129.0	2142.0	2144.0	2151.0
7.5°	2082.0	2076.0	2090.0	2100.0	2119.0	2136.0	2160.0	2182.0	2191.0	2194.0
10°	2136.0	2126.0	2139.0	2145.0	2161.0	2178.0	2206.0	2241.0	2251.0	2263.0
12.5°	2228.0	2217.0	2236.0	2245.0	2260.0	2275.0	2294.0	2328.0	2333.0	2355.0
15°	2354.0	2341.0	2353.0	2364.0	2389.0	2403.0	2422.0	2455.0	2455.0	2472.0
17.5°	2525.0	2508.0	2517.0	2521.0	2537.0	2558.0	2590.0	2619.0	2634.0	2628.0
20°	2780.0	2759.0	2759.0	2739.0	2733.0	2750.0	2792.0	2832.0	2848.0	2817.0
22.5°	3163.0	3133.0	3116.0	3048.0	3021.0	3023.0	3065.0	3114.0	3127.0	3072.0
25°	3650.0	3603.0	3580.0	3480.0	3419.0	3366.0	3399.0	3462.0	3480.0	3412.0
27.5°	4137.0	4140.0	4118.0	3998.0	3897.0	3800.0	3783.0	3849.0	3868.0	3791.0
30°	4820.0	4749.0	4707.0	4563.0	4419.0	4283.0	4213.0	4240.0	4245.0	4153.0
32.5°	5409.1	5391.1	5301.1	5175.1	4990.1	4777.0	4660.0	4617.0	4609.0	4478.0
35°	6080.1	6070.1	5975.1	5825.1	5625.1	5329.1	5118.1	4995.1	4985.1	4801.0
37.5°	6762.1	6762.1	6669.1	6505.1	6298.1	5928.1	5607.1	5412.1	5380.1	5140.1
40°	7306.1	7273.1	7290.1	7221.1	6984.1	6591.1	6150.1	5867.1	5824.1	5536.1
42.5°	7615.1	7604.1	7706.1	7783.1	7686.1	7372.1	6748.1	6360.1	6300.1	5972.1
45°	7684.1	7672.1	7854.1	8136.1	8272.1	8143.1	7398.1	6879.1	6806.1	6428.1
47.5°	7525.1	7501.1	7768.1	8213.1	8649.1	8876.1	8102.1	7442.1	7336.1	6872.1
50°	7047.1	7024.1	7428.1	8019.1	8776.1	9374.1	8866.1	8039.1	7877.1	7348.1
52.5°	6008.1	6019.1	6652.1	7464.1	8609.1	9684.1	9524.1	8668.1	8473.1	7835.1
55°	4680.0	4704.0	5482.1	6376.1	7941.1	9637.1	9973.1	9316.1	9122.1	8293.1
57.5°	3351.0	3457.0	4186.0	5071.1	6658.1	8892.1	10071.1	9932.1	9744.1	8793.1
60°	2172.0	2191.0	2941.0	3833.0	5070.1	7568.1	9872.1	10399.1	10252.1	9303.1
62.5°	1392.0	1405.0	1862.0	2681.0	3649.0	5599.1	9202.1	10602.1	10557.1	9640.1
65°	1023.0	1013.0	1251.0	1772.0	2458.0	3453.0	7901.1	10504.1	10593.1	9851.1
67.5°	854.0	840.0	957.0	1227.0	1811.0	1961.0	5846.1	9867.1	10193.1	9827.1
70°	778.0	766.0	837.0	911.0	1413.0	1313.0	2947.0	8578.1	9080.1	9554.1
72.5°	659.0	638.0	735.0	809.0	1099.0	1007.0	1218.0	6589.1	7201.1	8679.1
75°	511.0	497.0	580.0	712.0	826.0	786.0	770.0	4001.0	4669.0	6712.1
77.5°	405.0	386.0	462.0	555.0	743.0	593.0	561.0	1723.0	2385.0	4285.0
80°	305.0	288.0	351.0	439.0	571.0	447.0	363.0	703.0	899.0	2171.0
82.5°	217.0	202.0	245.0	322.0	384.0	401.0	223.0	394.0	443.0	837.0
85°	139.0	130.0	164.0	202.0	244.0	258.0	136.0	206.0	226.0	345.0
87.5°	76.0	62.0	88.0	94.0	113.0	103.0	65.0	75.0	81.0	125.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949214
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2124.0	0°	2124.0	2124.0	2124.0	2124.0	2124.0	2124.0	2124.0	2124.0	2124.0	2124.0
2128.0	2.5°	2132.0	2135.0	2145.0	2148.0	2155.0	2164.0	2170.0	2176.0	2176.0	2182.0
2160.0	5°	2161.0	2168.0	2189.0	2200.0	2218.0	2236.0	2247.0	2260.0	2268.0	2272.0
2211.0	7.5°	2217.0	2228.0	2258.0	2277.0	2308.0	2333.0	2350.0	2368.0	2372.0	2383.0
2282.0	10°	2293.0	2306.0	2340.0	2376.0	2413.0	2444.0	2460.0	2473.0	2478.0	2480.0
2373.0	12.5°	2380.0	2399.0	2443.0	2487.0	2526.0	2553.0	2557.0	2554.0	2540.0	2528.0
2485.0	15°	2487.0	2504.0	2553.0	2601.0	2639.0	2644.0	2619.0	2603.0	2586.0	2583.0
2610.0	17.5°	2615.0	2624.0	2669.0	2716.0	2719.0	2702.0	2665.0	2650.0	2634.0	2623.0
2773.0	20°	2764.0	2761.0	2793.0	2813.0	2792.0	2740.0	2684.0	2659.0	2643.0	2630.0
2973.0	22.5°	2942.0	2919.0	2915.0	2910.0	2854.0	2745.0	2669.0	2637.0	2612.0	2594.0
3252.0	25°	3201.0	3113.0	3052.0	3018.0	2892.0	2718.0	2621.0	2550.0	2503.0	2472.0
3593.0	27.5°	3525.0	3377.0	3223.0	3140.0	2892.0	2663.0	2505.0	2390.0	2313.0	2281.0
3923.0	30°	3834.0	3679.0	3452.0	3287.0	2885.0	2573.0	2318.0	2158.0	2068.0	2036.0
4205.0	32.5°	4098.0	3929.0	3695.0	3448.0	2868.0	2427.0	2086.0	1909.0	1822.0	1784.0
4484.0	35°	4343.0	4163.0	3939.0	3625.0	2823.0	2213.0	1831.0	1696.0	1599.0	1538.0
4768.0	37.5°	4594.0	4380.0	4170.0	3785.0	2742.0	1963.0	1635.0	1520.0	1406.0	1324.0
5070.1	40°	4867.0	4611.0	4417.0	3880.0	2609.0	1725.0	1483.0	1378.0	1257.0	1170.0
5418.1	42.5°	5186.1	4888.0	4692.0	3929.0	2427.0	1556.0	1384.0	1281.0	1167.0	1096.0
5791.1	45°	5519.1	5193.1	4943.0	3928.0	2224.0	1477.0	1352.0	1250.0	1124.0	1050.0
6174.1	47.5°	5868.1	5512.1	5160.1	3864.0	2048.0	1488.0	1334.0	1183.0	1044.0	972.0
6561.1	50°	6218.1	5861.1	5370.1	3744.0	1973.0	1464.0	1267.0	1089.0	925.0	860.0
6924.1	52.5°	6565.1	6232.1	5551.1	3573.0	1897.0	1375.0	1181.0	967.0	876.0	831.0
7299.1	55°	6914.1	6599.1	5748.1	3324.0	1707.0	1271.0	1037.0	921.0	837.0	796.0
7666.1	57.5°	7264.1	7023.1	5935.1	3075.0	1468.0	1143.0	958.0	865.0	798.0	763.0
7973.1	60°	7628.1	7508.1	6128.1	2846.0	1232.0	979.0	900.0	820.0	752.0	713.0
8268.1	62.5°	8003.1	8042.1	6279.1	2551.0	1015.0	879.0	848.0	766.0	700.0	663.0
8512.1	65°	8381.1	8557.1	6378.1	2142.0	823.0	784.0	792.0	707.0	640.0	608.0
8691.1	67.5°	8666.1	8928.1	6350.1	1621.0	675.0	694.0	722.0	645.0	582.0	557.0
8662.1	70°	8698.1	8884.1	6074.1	1110.0	565.0	606.0	644.0	584.0	519.0	501.0
8254.1	72.5°	8272.1	8284.1	5305.1	725.0	478.0	532.0	562.0	522.0	459.0	441.0
7221.1	75°	7155.1	6851.1	3895.0	478.0	400.0	457.0	485.0	457.0	396.0	400.0
5403.1	77.5°	5421.1	4852.0	2365.0	340.0	334.0	384.0	422.0	402.0	350.0	393.0
2717.0	80°	2793.0	2625.0	1055.0	254.0	264.0	307.0	347.0	321.0	277.0	264.0
607.0	82.5°	640.0	744.0	416.0	182.0	191.0	221.0	265.0	241.0	199.0	168.0
253.0	85°	224.0	245.0	184.0	114.0	112.0	138.0	180.0	161.0	135.0	108.0
107.0	87.5°	71.0	93.0	69.0	46.0	48.0	62.0	83.0	76.0	63.0	41.0
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>
2124.0
2182.0
2274.0
2379.0
2475.0
2528.0
2583.0
2624.0
2631.0
2600.0
2484.0
2297.0
2055.0
1803.0
1558.0
1346.0
1187.0
1110.0
1062.0
982.0
864.0
831.0
792.0
757.0
710.0
662.0
607.0
558.0
502.0
440.0
386.0
346.0
241.0
166.0
114.0
43.0
0.0

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