

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: P940738

Luminaire Tested: **GALN-SB3D-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16751 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

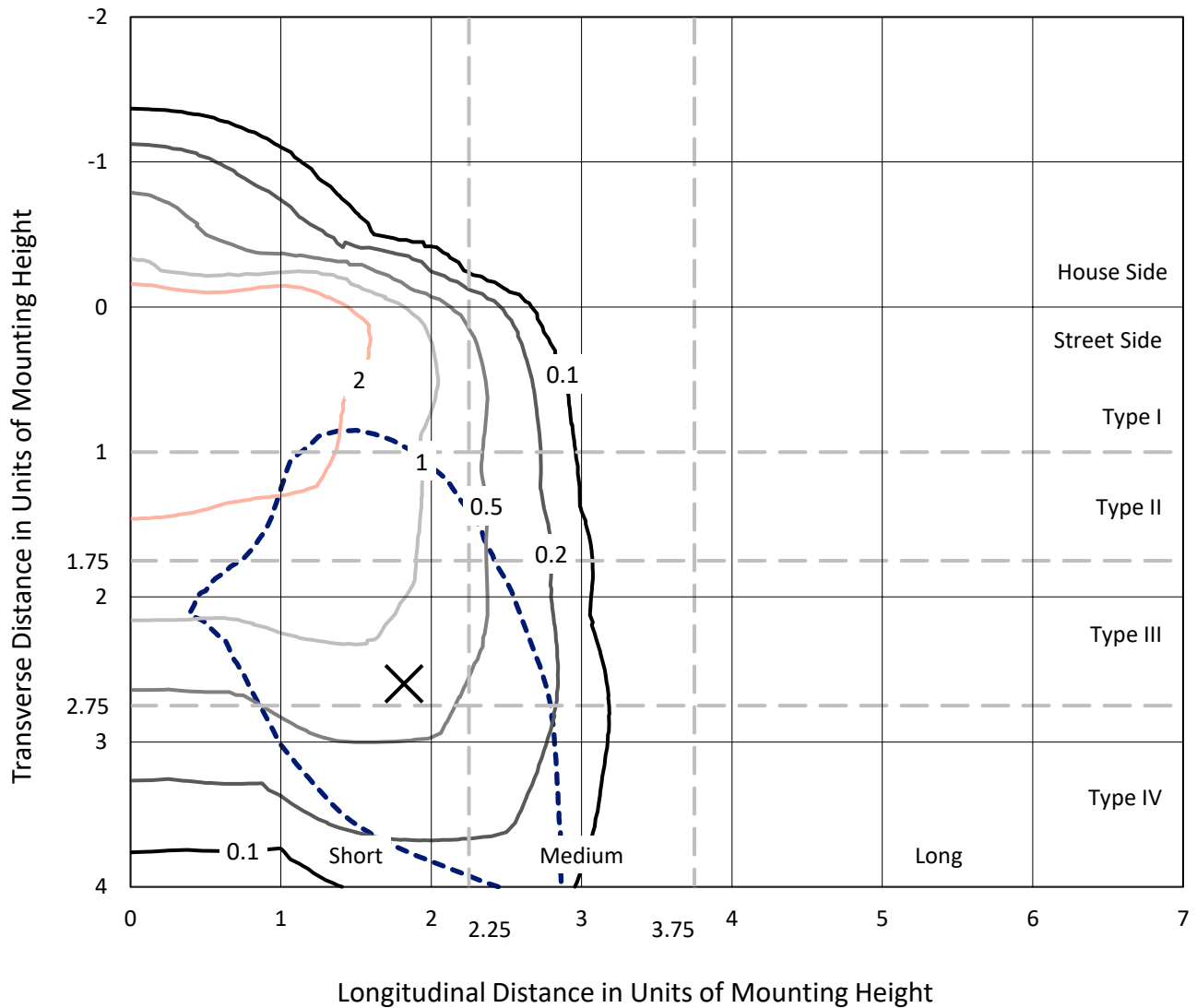
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

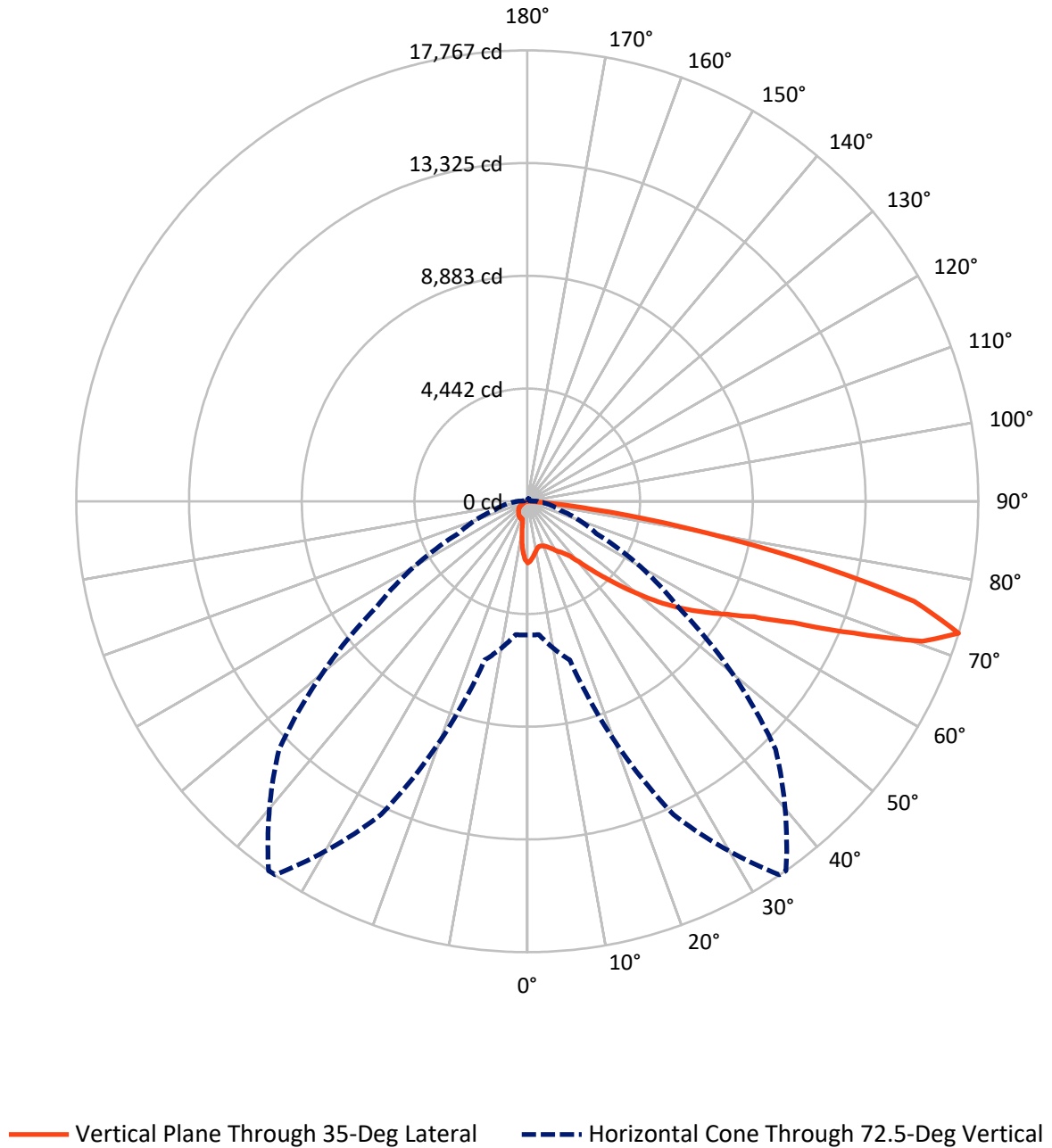
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1885.2	0.0	1885.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	14865.7	0.0	14865.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	16751.0	0.0	16751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	1.2
10°-20°	466.7	2.8
20°-30°	758.1	4.5
30°-40°	1265.0	7.6
40°-50°	2393.3	14.3
50°-60°	3803.0	22.7
60°-70°	4704.6	28.1
70°-80°	2924.4	17.5
80°-90°	236.3	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°	16751.0	100.0
0°-180°	16751.0	100.0

Coefficient of Utilization



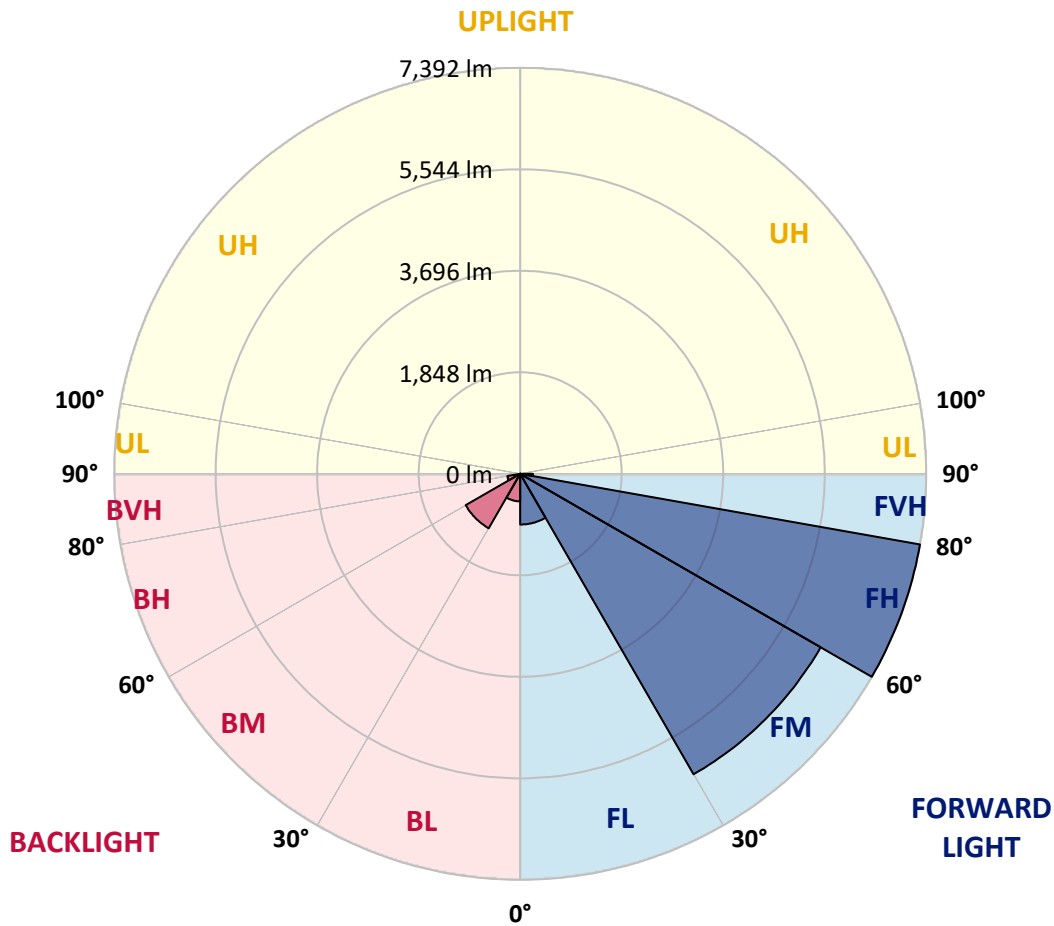
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	923.4	5.5			
FM	(30°-60°)	6316.8	37.7			
FH	(60°-80°)	7392.4	44.1			G3/7500
FVH	(80°-90°)	233.1	1.4			G3/500
BL	(0°-30°)	500.9	3.0	B2/1000		
BM	(30°-60°)	1144.5	6.8	B2/2500		
BH	(60°-80°)	236.6	1.4	B1/500		G1/500
BVH	(80°-90°)	3.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2427.8	2427.8	2427.8	2427.8	2427.8	2427.8	2427.8	2427.8	2427.8	2427.8
2.5°	2319.8	2339.4	2343.1	2349.2	2349.2	2356.6	2368.9	2386.1	2414.3	2429.0
5°	2138.1	2152.8	2171.3	2186.0	2214.2	2217.9	2265.8	2312.4	2377.5	2426.6
7.5°	1955.2	1972.4	1997.0	2032.6	2069.4	2080.4	2152.8	2231.4	2334.5	2426.6
10°	1826.4	1827.6	1849.7	1885.3	1944.2	1957.7	2046.1	2157.8	2286.6	2411.8
12.5°	1753.9	1762.5	1772.4	1799.4	1855.8	1864.4	1958.9	2090.2	2238.8	2403.2
15°	1753.9	1760.1	1766.2	1779.7	1825.1	1832.5	1916.0	2047.3	2214.2	2406.9
17.5°	1772.4	1782.2	1777.3	1793.2	1841.1	1846.0	1919.6	2035.0	2213.0	2430.2
20°	1816.5	1823.9	1814.1	1823.9	1871.8	1881.6	1957.7	2058.3	2233.9	2470.7
22.5°	1886.5	1890.2	1866.9	1874.2	1923.3	1935.6	2024.0	2124.6	2284.2	2535.8
25°	1974.9	1982.2	1946.6	1955.2	2001.9	2016.6	2118.5	2224.0	2364.0	2625.4
27.5°	2076.7	2080.4	2049.7	2048.5	2108.7	2129.5	2232.6	2346.8	2470.7	2738.3
30°	2193.3	2204.4	2174.9	2170.0	2246.1	2263.3	2365.2	2497.7	2627.8	2907.7
32.5°	2285.4	2294.0	2276.8	2289.1	2366.4	2379.9	2526.0	2711.3	2874.6	3148.3
35°	2418.0	2422.9	2383.6	2405.7	2494.1	2528.4	2745.7	3010.8	3185.1	3450.2
37.5°	2897.9	2897.9	2730.9	2621.7	2706.4	2737.1	3046.4	3387.6	3568.0	3855.2
40°	3561.9	3550.8	3306.6	3083.2	3072.2	3132.3	3474.7	3862.6	4062.7	4341.3
42.5°	4270.1	4252.9	3920.3	3699.4	3662.5	3683.4	3969.4	4448.1	4651.8	4934.1
45°	4898.5	4893.6	4589.2	4292.2	4225.9	4292.2	4586.8	5133.0	5279.0	5576.0
47.5°	5425.1	5425.1	5202.9	5009.0	4974.6	5013.9	5422.6	5892.7	5879.2	6259.7
50°	6031.4	6026.5	5815.4	5731.9	5767.5	5822.7	6384.9	6693.0	6500.3	6931.1
52.5°	6456.1	6485.5	6413.1	6399.6	6581.3	6677.0	7361.9	7476.0	7056.3	7568.1
55°	6792.4	6826.8	6910.2	7004.7	7354.5	7479.7	8308.2	8218.6	7521.5	8120.4
57.5°	7268.6	7219.5	7348.4	7535.0	8100.8	8251.8	9225.1	8919.5	7895.8	8568.4
60°	7846.7	7854.1	7876.2	8111.8	8845.8	9039.7	10128.4	9582.2	8136.4	8843.4
62.5°	8541.4	8552.5	8597.9	8960.0	9846.1	10029.0	11090.7	10124.8	8246.8	8766.0
65°	8493.6	8540.2	9047.1	10285.5	11366.9	11547.3	12213.8	10505.2	8079.9	8059.1
67.5°	7737.5	7813.6	8661.7	11868.9	13659.6	13860.9	13571.3	10580.1	7359.4	6267.1
70°	6745.7	6772.7	7792.7	13292.7	16314.5	16518.2	14786.4	9756.5	5584.6	3495.6
72.5°	5268.0	5274.1	6470.8	13622.8	17755.5	17766.5	13832.7	7242.8	3003.4	1342.8
75°	3763.2	3726.4	4333.9	11047.8	15621.0	15746.2	10370.2	3397.4	1147.6	634.6
77.5°	2017.8	2058.3	2452.3	6551.8	10791.2	11004.8	5658.3	979.5	584.2	432.0
80°	623.5	657.9	1005.2	2999.7	6112.4	6241.3	2097.6	435.7	407.5	308.1
82.5°	196.4	203.7	468.9	1260.5	2537.0	2595.9	607.6	246.7	278.6	203.7
85°	56.5	57.7	208.7	470.1	627.2	639.5	170.6	95.7	159.6	126.4
87.5°	6.1	19.6	78.6	78.6	55.2	54.0	18.4	20.9	45.4	16.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2427.8	0°	2427.8	2427.8	2427.8	2427.8	2427.8	2427.8	2427.8	2427.8	2427.8	2427.8
2438.8	2.5°	2432.7	2433.9	2418.0	2391.0	2361.5	2337.0	2306.3	2281.7	2264.5	2259.6
2460.9	5°	2449.9	2441.3	2395.9	2313.6	2215.4	2130.8	2036.2	1961.4	1912.3	1891.4
2484.2	7.5°	2475.6	2451.1	2351.7	2189.7	2001.9	1835.0	1665.6	1534.2	1450.8	1409.0
2506.3	10°	2497.7	2448.6	2278.0	2010.5	1723.3	1470.4	1242.1	1083.8	995.4	953.7
2532.1	12.5°	2518.6	2447.4	2182.3	1798.1	1409.0	1099.7	887.4	808.9	784.3	775.7
2573.8	15°	2557.9	2451.1	2062.0	1555.1	1096.1	830.9	753.6	752.4	757.3	754.8
2637.7	17.5°	2611.9	2454.8	1925.8	1297.4	845.7	732.8	729.1	740.1	747.5	743.8
2717.4	20°	2681.9	2469.5	1780.9	1042.1	726.6	708.2	716.8	726.6	732.8	726.6
2824.2	22.5°	2780.0	2495.3	1622.6	837.1	688.6	693.5	700.8	711.9	718.0	709.4
2960.5	25°	2900.3	2535.8	1466.7	727.8	670.2	676.3	687.3	699.6	707.0	698.4
3132.3	27.5°	3056.2	2600.8	1323.1	703.3	651.7	655.4	671.4	689.8	699.6	688.6
3376.6	30°	3282.0	2707.6	1199.2	714.3	640.7	632.1	654.2	680.0	691.0	681.2
3709.2	32.5°	3581.5	2858.6	1123.1	731.5	635.8	605.1	626.0	659.1	677.5	671.4
4143.7	35°	3974.3	3088.1	1093.6	751.2	632.1	576.9	591.6	627.2	659.1	665.2
4691.1	37.5°	4450.5	3407.2	1102.2	759.8	621.1	553.6	560.9	591.6	633.3	653.0
5307.2	40°	4991.8	3779.1	1151.3	751.2	608.8	533.9	535.1	558.5	595.3	624.7
5970.0	42.5°	5550.3	4213.6	1242.1	719.3	597.7	516.7	513.0	529.0	553.6	574.4
6631.6	45°	6081.7	4660.4	1331.7	675.1	584.2	499.5	491.0	497.1	502.0	510.6
7276.0	47.5°	6545.7	4974.6	1305.9	634.6	565.8	479.9	465.2	462.7	448.0	446.8
7851.6	50°	6866.0	5043.4	1159.9	594.1	538.8	457.8	434.5	419.8	394.0	381.7
8282.4	52.5°	6967.9	4772.1	947.5	553.6	494.6	428.4	395.2	371.9	340.0	328.9
8530.4	55°	6832.9	4240.6	757.3	504.5	433.3	389.1	352.3	321.6	295.8	282.3
8557.4	57.5°	6502.7	3564.3	599.0	446.8	368.2	344.9	308.1	277.4	255.3	241.8
8257.9	60°	5955.3	2830.4	473.8	378.0	314.2	297.0	259.0	239.3	219.7	203.7
7484.6	62.5°	5124.4	2020.3	371.9	299.5	262.7	243.0	220.9	206.2	182.9	160.8
6094.0	65°	3998.8	1236.0	287.2	219.7	211.1	201.3	187.8	174.3	146.1	124.0
3975.5	67.5°	2522.3	585.5	205.0	165.7	166.9	162.0	155.9	144.8	124.0	104.3
1780.9	70°	1110.8	283.5	135.0	126.4	124.0	124.0	128.9	125.2	105.6	87.1
618.6	72.5°	378.0	152.2	100.6	95.7	89.6	88.4	108.0	104.3	84.7	67.5
308.1	75°	197.6	101.9	73.6	68.7	54.0	65.1	85.9	81.0	60.1	44.2
203.7	77.5°	128.9	72.4	50.3	44.2	30.7	43.0	63.8	56.5	35.6	22.1
133.8	80°	81.0	47.9	29.5	20.9	14.7	23.3	34.4	24.5	13.5	4.9
78.6	82.5°	43.0	24.5	11.0	7.4	6.1	7.4	8.6	6.1	2.5	0.0
40.5	85°	17.2	8.6	3.7	2.5	1.2	0.0	2.5	1.2	0.0	0.0
7.4	87.5°	6.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

180°
2427.8
2268.2
1898.8
1415.2
954.9
773.3
753.6
742.6
725.4
708.2
697.2
688.6
680.0
671.4
665.2
657.9
634.6
583.0
515.5
445.5
382.9
327.7
282.3
239.3
200.1
157.1
120.3
101.9
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