

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: P939378

Luminaire Tested: **GALN-SB1D-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939378
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-SB1D-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5585 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

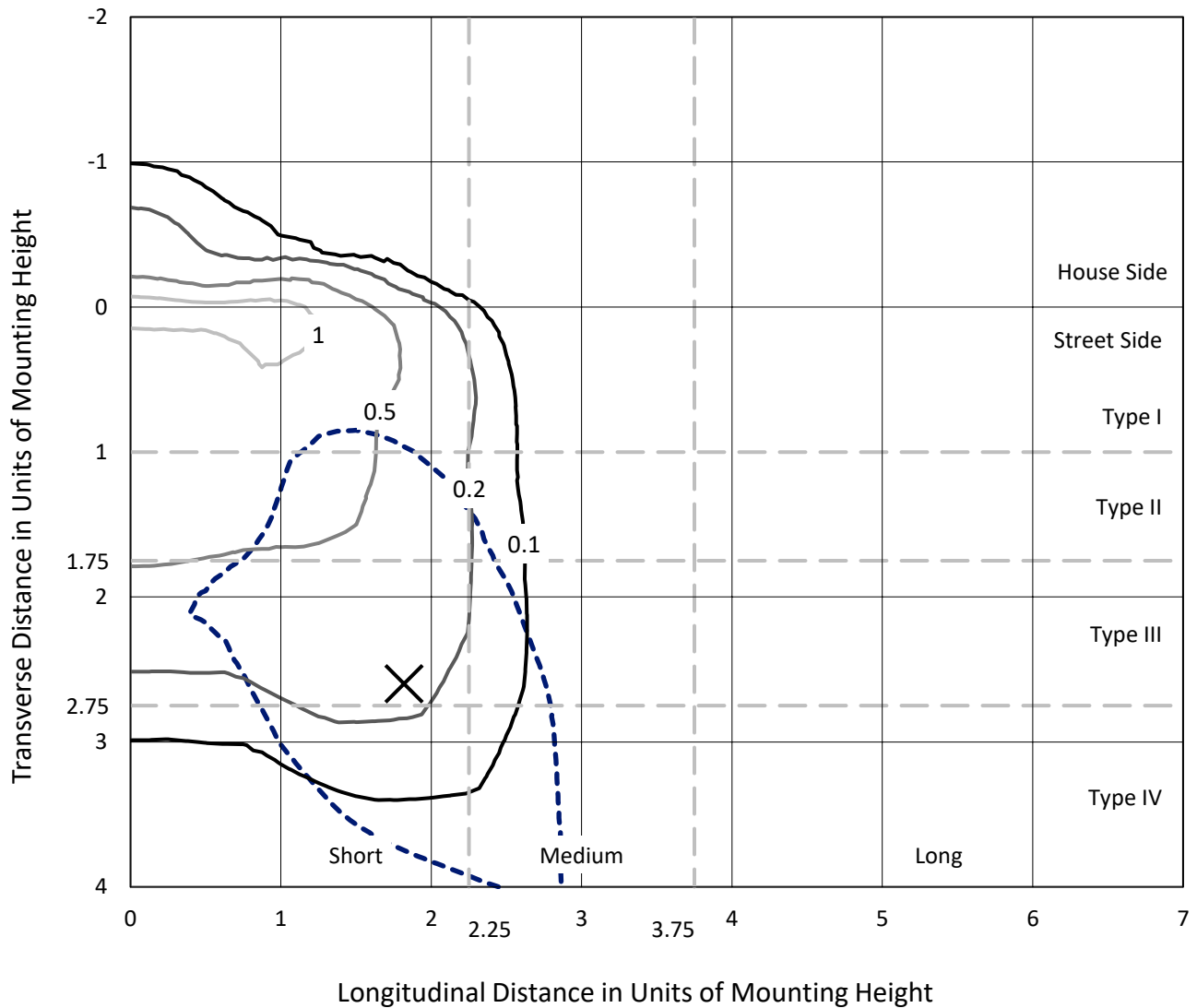
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

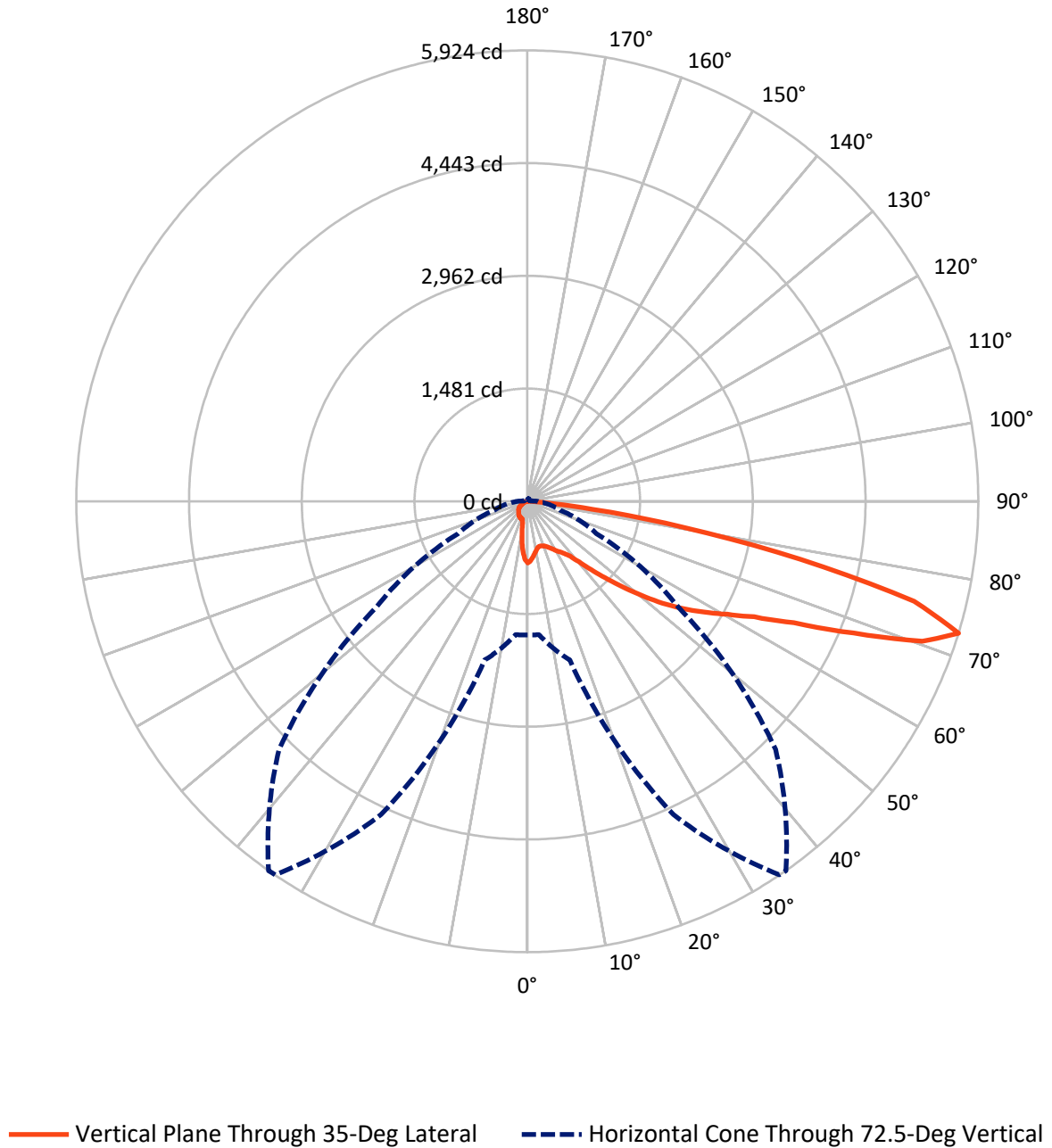
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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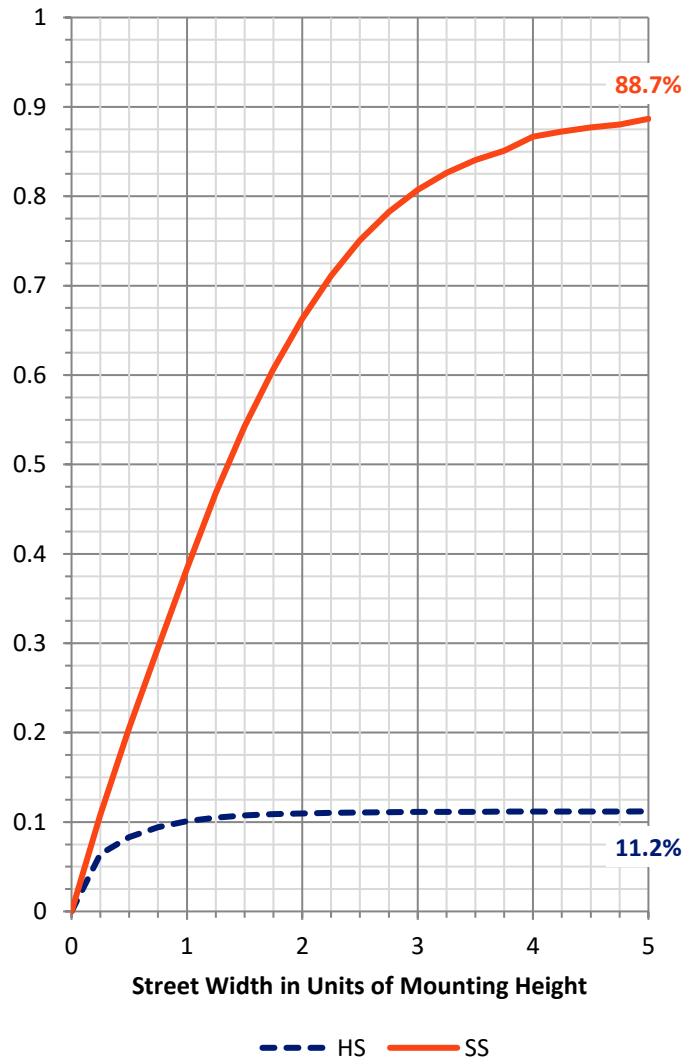
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	628.6	0.0	628.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4956.4	0.0	4956.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	5585.0	0.0	5585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	1.2
10°-20°	155.6	2.8
20°-30°	252.8	4.5
30°-40°	421.8	7.6
40°-50°	798.0	14.3
50°-60°	1268.0	22.7
60°-70°	1568.6	28.1
70°-80°	975.0	17.5
80°-90°	78.8	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°	5585.0	100.0
0°-180°	5585.0	100.0

Coefficient of Utilization



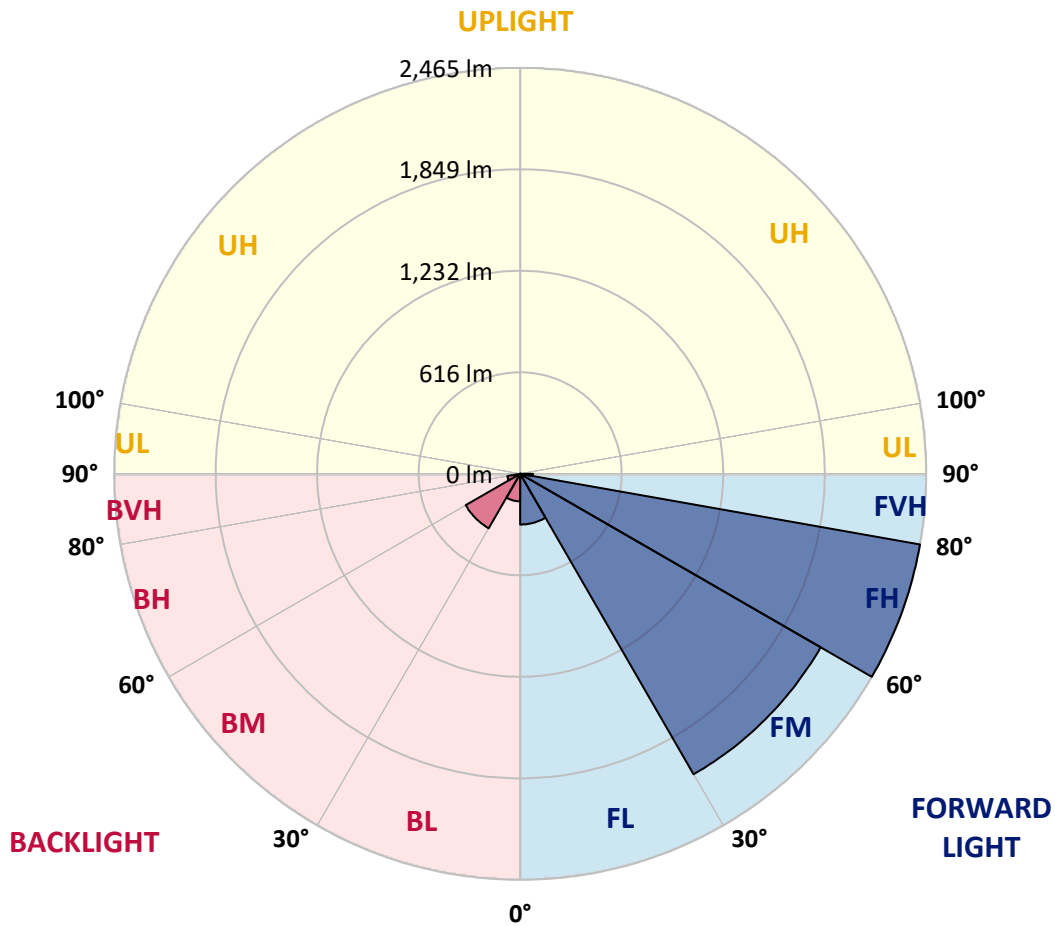
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.9	5.5			
FM (30°-60°)	2106.1	37.7			
FH (60°-80°)	2464.7	44.1			G2/5000
FVH (80°-90°)	77.7	1.4			G1/100
BL (0°-30°)	167.0	3.0	B1/500		
BM (30°-60°)	381.6	6.8	B1/1000		
BH (60°-80°)	78.9	1.4	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	809.5	809.5	809.5	809.5	809.5	809.5	809.5	809.5	809.5	809.5
2.5°	773.4	780.0	781.2	783.3	783.3	785.7	789.8	795.5	805.0	809.9
5°	712.9	717.8	723.9	728.8	738.2	739.5	755.4	771.0	792.7	809.0
7.5°	651.9	657.6	665.8	677.7	690.0	693.6	717.8	744.0	778.4	809.0
10°	608.9	609.3	616.7	628.6	648.2	652.7	682.2	719.4	762.4	804.1
12.5°	584.8	587.7	590.9	599.9	618.8	621.6	653.1	696.9	746.4	801.3
15°	584.8	586.8	588.9	593.4	608.5	611.0	638.8	682.6	738.2	802.5
17.5°	590.9	594.2	592.6	597.9	613.8	615.5	640.0	678.5	737.8	810.3
20°	605.7	608.1	604.8	608.1	624.1	627.3	652.7	686.3	744.8	823.8
22.5°	629.0	630.2	622.4	624.9	641.3	645.4	674.8	708.4	761.6	845.5
25°	658.4	660.9	649.0	651.9	667.5	672.4	706.3	741.5	788.2	875.3
27.5°	692.4	693.6	683.4	683.0	703.1	710.0	744.4	782.4	823.8	913.0
30°	731.3	735.0	725.2	723.5	748.9	754.6	788.6	832.8	876.2	969.5
32.5°	762.0	764.8	759.1	763.2	789.0	793.5	842.2	904.0	958.4	1049.7
35°	806.2	807.8	794.7	802.1	831.6	843.0	915.4	1003.8	1061.9	1150.3
37.5°	966.2	966.2	910.5	874.1	902.3	912.6	1015.7	1129.5	1189.6	1285.4
40°	1187.6	1183.9	1102.5	1028.0	1024.3	1044.4	1158.5	1287.8	1354.5	1447.4
42.5°	1423.7	1418.0	1307.1	1233.4	1221.1	1228.1	1323.4	1483.0	1551.0	1645.1
45°	1633.2	1631.6	1530.1	1431.1	1409.0	1431.1	1529.3	1711.4	1760.1	1859.1
47.5°	1808.8	1808.8	1734.7	1670.1	1658.6	1671.7	1808.0	1964.7	1960.2	2087.1
50°	2010.9	2009.3	1938.9	1911.1	1923.0	1941.4	2128.8	2231.5	2167.3	2310.9
52.5°	2152.5	2162.4	2138.2	2133.7	2194.3	2226.2	2454.6	2492.6	2352.7	2523.3
55°	2264.7	2276.1	2304.0	2335.5	2452.1	2493.8	2770.1	2740.2	2507.8	2707.5
57.5°	2423.5	2407.1	2450.1	2512.3	2700.9	2751.2	3075.8	2973.9	2632.6	2856.8
60°	2616.2	2618.7	2626.0	2704.6	2949.3	3014.0	3377.0	3194.8	2712.8	2948.5
62.5°	2847.8	2851.5	2866.6	2987.4	3282.8	3343.8	3697.8	3375.7	2749.6	2922.7
65°	2831.9	2847.4	3016.4	3429.3	3789.9	3850.0	4072.2	3502.6	2694.0	2687.0
67.5°	2579.8	2605.1	2887.9	3957.2	4554.3	4621.4	4524.8	3527.5	2453.7	2089.5
70°	2249.1	2258.1	2598.2	4431.9	5439.5	5507.4	4930.0	3253.0	1862.0	1165.5
72.5°	1756.4	1758.5	2157.5	4542.0	5919.9	5923.6	4612.0	2414.9	1001.4	447.7
75°	1254.7	1242.4	1445.0	3683.5	5208.2	5250.0	3457.6	1132.7	382.6	211.6
77.5°	672.8	686.3	817.6	2184.5	3597.9	3669.1	1886.5	326.6	194.8	144.0
80°	207.9	219.3	335.2	1000.2	2038.0	2080.9	699.4	145.3	135.9	102.7
82.5°	65.5	67.9	156.3	420.3	845.9	865.5	202.6	82.3	92.9	67.9
85°	18.8	19.2	69.6	156.7	209.1	213.2	56.9	31.9	53.2	42.2
87.5°	2.0	6.5	26.2	26.2	18.4	18.0	6.1	7.0	15.1	5.3
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°
809.5	0°	809.5	809.5	809.5	809.5	809.5	809.5	809.5	809.5	809.5	809.5
813.1	2.5°	811.1	811.5	806.2	797.2	787.4	779.2	768.9	760.8	755.0	753.4
820.5	5°	816.8	814.0	798.8	771.4	738.7	710.4	678.9	653.9	637.6	630.6
828.3	7.5°	825.4	817.2	784.1	730.1	667.5	611.8	555.3	511.5	483.7	469.8
835.6	10°	832.8	816.4	759.5	670.3	574.6	490.3	414.1	361.3	331.9	318.0
844.2	12.5°	839.7	816.0	727.6	599.5	469.8	366.7	295.9	269.7	261.5	258.6
858.2	15°	852.8	817.2	687.5	518.5	365.4	277.0	251.3	250.9	252.5	251.7
879.4	17.5°	870.8	818.5	642.1	432.6	282.0	244.3	243.1	246.8	249.2	248.0
906.0	20°	894.2	823.4	593.8	347.4	242.3	236.1	239.0	242.3	244.3	242.3
941.6	22.5°	926.9	832.0	541.0	279.1	229.6	231.2	233.7	237.4	239.4	236.5
987.1	25°	967.0	845.5	489.0	242.7	223.4	225.5	229.2	233.3	235.7	232.9
1044.4	27.5°	1019.0	867.2	441.1	234.5	217.3	218.5	223.8	230.0	233.3	229.6
1125.8	30°	1094.3	902.8	399.8	238.2	213.6	210.8	218.1	226.7	230.4	227.1
1236.7	32.5°	1194.1	953.1	374.4	243.9	212.0	201.7	208.7	219.8	225.9	223.8
1381.6	35°	1325.1	1029.6	364.6	250.4	210.8	192.3	197.2	209.1	219.8	221.8
1564.1	37.5°	1483.9	1136.0	367.5	253.3	207.1	184.6	187.0	197.2	211.2	217.7
1769.5	40°	1664.3	1260.0	383.9	250.4	203.0	178.0	178.4	186.2	198.5	208.3
1990.5	42.5°	1850.5	1404.9	414.1	239.8	199.3	172.3	171.1	176.4	184.6	191.5
2211.1	45°	2027.7	1553.8	444.0	225.1	194.8	166.6	163.7	165.7	167.4	170.2
2425.9	47.5°	2182.4	1658.6	435.4	211.6	188.7	160.0	155.1	154.3	149.4	149.0
2617.8	50°	2289.2	1681.5	386.7	198.1	179.7	152.6	144.9	140.0	131.4	127.3
2761.5	52.5°	2323.2	1591.1	315.9	184.6	164.9	142.8	131.8	124.0	113.4	109.7
2844.1	55°	2278.2	1413.9	252.5	168.2	144.5	129.7	117.4	107.2	98.6	94.1
2853.1	57.5°	2168.1	1188.4	199.7	149.0	122.8	115.0	102.7	92.5	85.1	80.6
2753.3	60°	1985.6	943.7	158.0	126.0	104.8	99.0	86.3	79.8	73.3	67.9
2495.5	62.5°	1708.5	673.6	124.0	99.9	87.6	81.0	73.7	68.8	61.0	53.6
2031.8	65°	1333.3	412.1	95.8	73.3	70.4	67.1	62.6	58.1	48.7	41.3
1325.5	67.5°	841.0	195.2	68.3	55.2	55.7	54.0	52.0	48.3	41.3	34.8
593.8	70°	370.4	94.5	45.0	42.2	41.3	41.3	43.0	41.7	35.2	29.1
206.3	72.5°	126.0	50.7	33.6	31.9	29.9	29.5	36.0	34.8	28.2	22.5
102.7	75°	65.9	34.0	24.6	22.9	18.0	21.7	28.6	27.0	20.1	14.7
67.9	77.5°	43.0	24.1	16.8	14.7	10.2	14.3	21.3	18.8	11.9	7.4
44.6	80°	27.0	16.0	9.8	7.0	4.9	7.8	11.5	8.2	4.5	1.6
26.2	82.5°	14.3	8.2	3.7	2.5	2.0	2.5	2.9	2.0	0.8	0.0
13.5	85°	5.7	2.9	1.2	0.8	0.4	0.0	0.8	0.4	0.0	0.0
2.5	87.5°	2.0	0.4	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

<u>180°</u>
809.5
756.3
633.1
471.8
318.4
257.8
251.3
247.6
241.9
236.1
232.4
229.6
226.7
223.8
221.8
219.3
211.6
194.4
171.9
148.5
127.7
109.3
94.1
79.8
66.7
52.4
40.1
34.0
27.8
21.3
13.5
6.5
1.2
0.0
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0.0
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