

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: P946011

Luminaire Tested: **GALN-SB1D-750-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-750-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8729 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

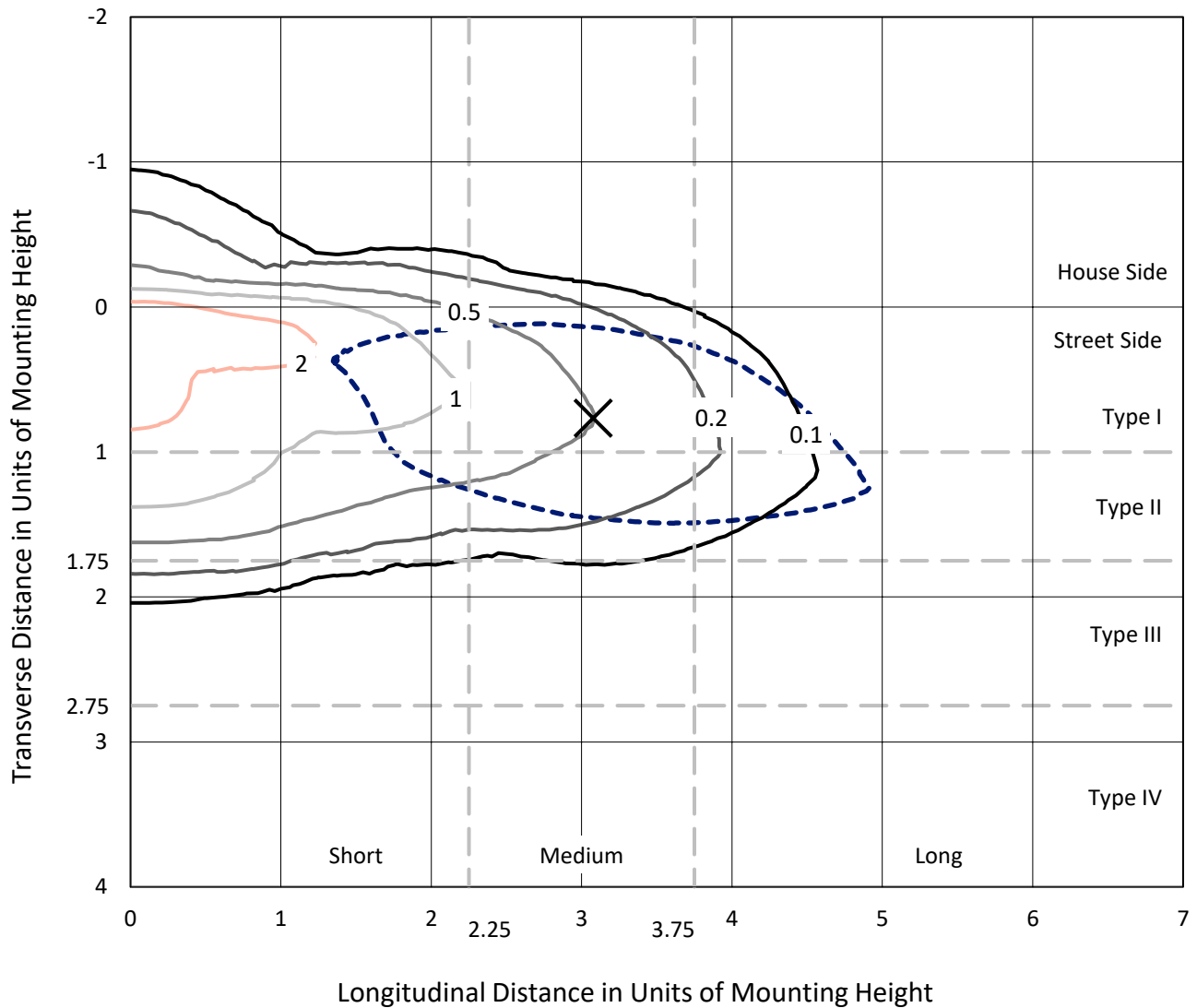
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

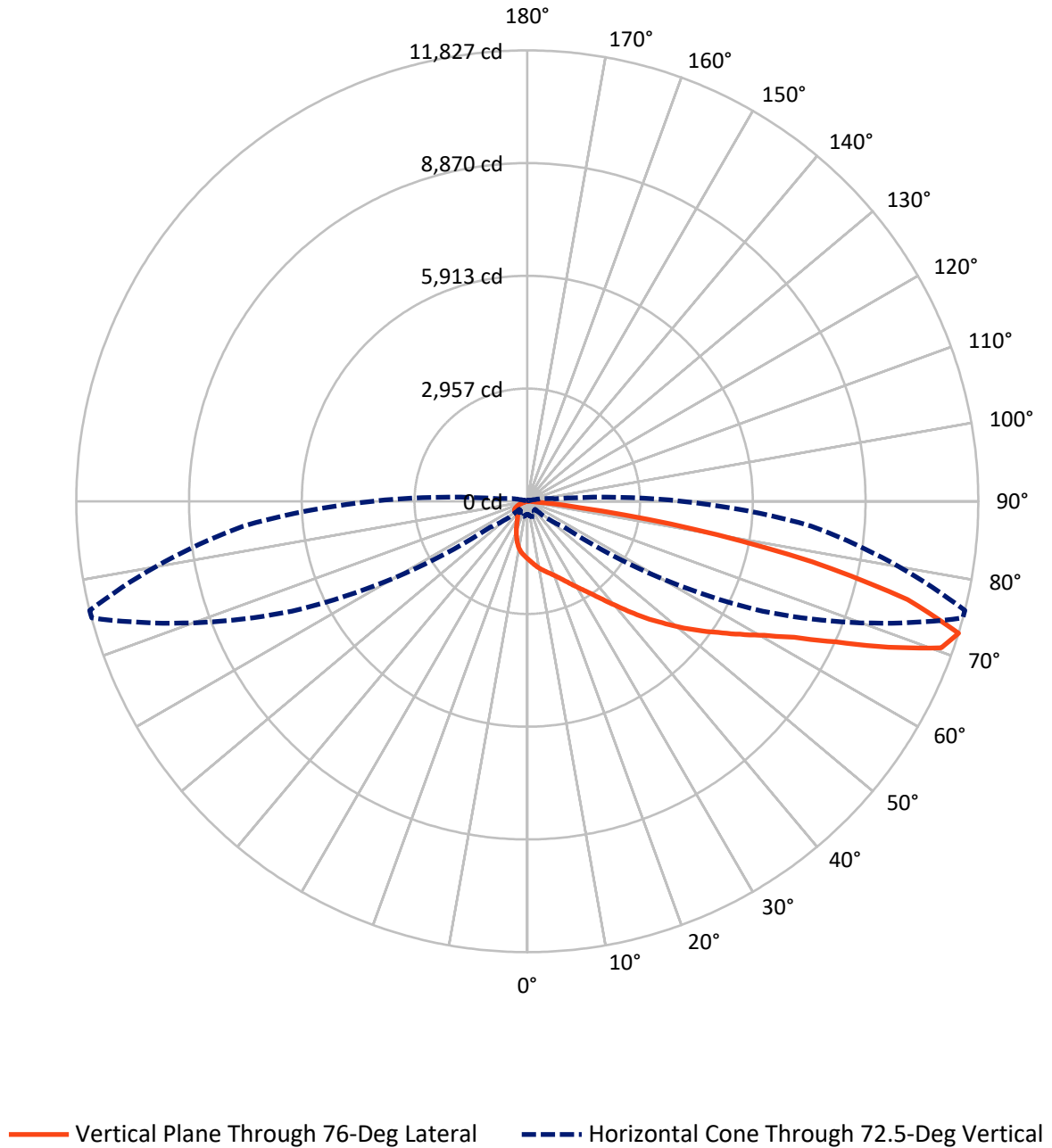
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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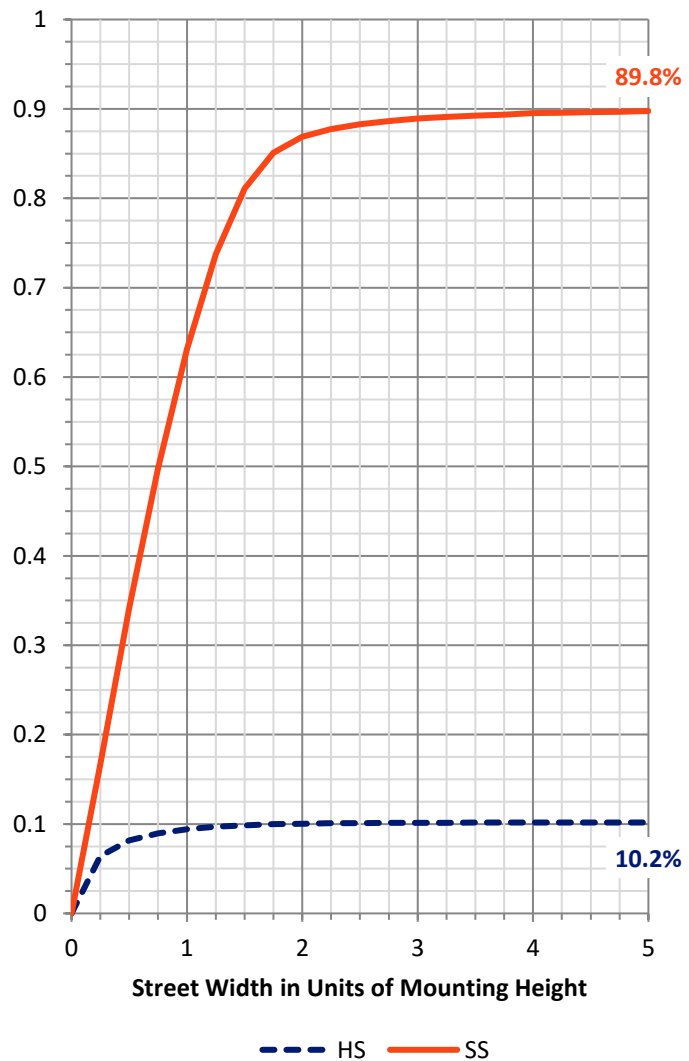
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	893.4	0.0	893.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	7835.6	0.0	7835.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	8729.0	0.0	8729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	1.6
10°-20°	367.9	4.2
20°-30°	582.2	6.7
30°-40°	900.8	10.3
40°-50°	1368.1	15.7
50°-60°	1886.1	21.6
60°-70°	1992.5	22.8
70°-80°	1366.9	15.7
80°-90°	127.2	1.5
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°	8729.0	100.0
0°-180°	8729.0	100.0

Coefficient of Utilization



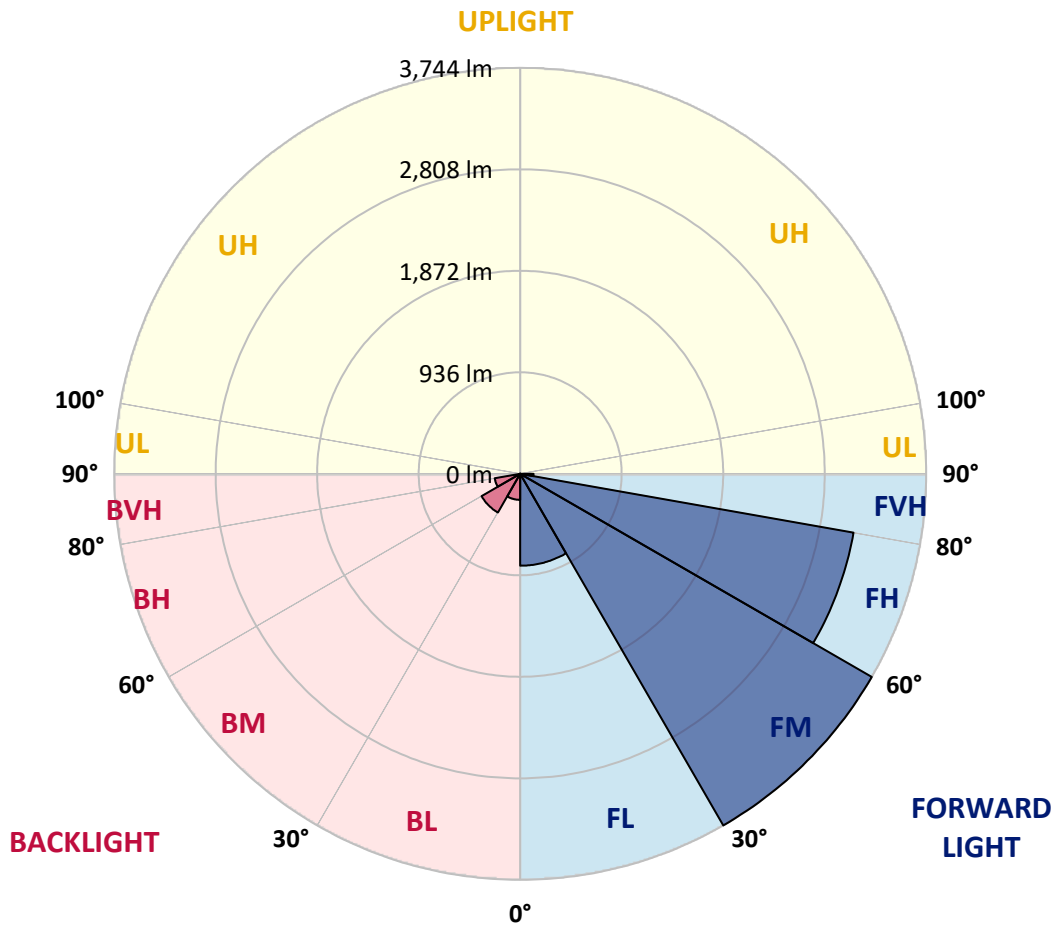
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.1	9.7			
FM (30°-60°)	3743.7	42.9			
FH (60°-80°)	3121.0	35.8			G2/5000
FVH (80°-90°)	123.8	1.4			G2/225
BL (0°-30°)	240.1	2.8	B1/500		
BM (30°-60°)	411.3	4.7	B1/1000		
BH (60°-80°)	238.5	2.7	B1/500		G1/500
BVH (80°-90°)	3.4	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4
2.5°	1753.6	1730.4	1734.9	1711.7	1701.0	1674.9	1647.7	1612.1	1572.4	1572.4
5°	1938.2	1923.5	1923.5	1896.3	1875.4	1834.6	1785.9	1723.0	1648.3	1640.9
7.5°	2051.5	2042.4	2048.1	2032.2	2015.2	1972.8	1915.0	1832.9	1727.0	1718.0
10°	2073.5	2073.0	2088.8	2093.4	2104.7	2083.2	2031.6	1937.1	1804.6	1791.6
12.5°	1988.0	1977.3	2016.4	2062.2	2126.8	2155.7	2129.0	2032.2	1875.4	1857.2
15°	1847.6	1849.9	1887.3	1958.0	2065.6	2168.7	2203.2	2125.1	1947.3	1925.8
17.5°	1767.2	1758.7	1791.0	1854.4	1973.3	2118.8	2237.8	2211.7	2023.7	1999.4
20°	1757.6	1757.0	1764.4	1793.3	1883.9	2047.5	2233.8	2296.1	2113.8	2085.4
22.5°	1824.4	1823.3	1817.0	1811.4	1836.3	1977.9	2216.8	2376.5	2221.3	2190.8
25°	1926.9	1925.2	1915.6	1881.0	1856.7	1940.5	2201.0	2451.2	2348.7	2314.8
27.5°	2052.0	2050.9	2033.3	1981.3	1918.4	1943.9	2193.0	2528.2	2496.0	2462.6
30°	2205.5	2203.2	2167.0	2093.4	2011.3	1997.7	2203.8	2614.9	2649.4	2623.9
32.5°	2398.0	2391.8	2344.2	2233.2	2118.3	2069.6	2224.2	2703.8	2831.2	2807.4
35°	2546.9	2537.3	2509.5	2411.6	2242.3	2157.9	2271.7	2809.1	3049.7	3028.8
37.5°	2674.9	2665.3	2642.6	2562.2	2420.1	2270.6	2348.2	2949.5	3307.9	3297.7
40°	2813.1	2797.2	2786.4	2700.4	2571.8	2433.1	2457.5	3113.7	3605.2	3606.3
42.5°	2919.5	2913.3	2914.4	2848.2	2718.5	2625.6	2602.4	3298.9	3961.4	3972.1
45°	3010.7	3005.6	3026.5	2980.1	2866.3	2751.9	2772.3	3508.4	4350.9	4373.0
47.5°	3080.9	3086.5	3116.6	3086.5	3019.7	2840.8	2922.9	3734.3	4760.3	4763.2
50°	3151.1	3153.4	3203.2	3188.5	3161.3	2953.5	3061.6	3986.9	5191.8	5196.9
52.5°	3173.2	3169.8	3249.1	3285.3	3286.4	3092.8	3241.1	4262.0	5614.8	5631.2
55°	3059.9	3069.6	3197.5	3344.7	3403.1	3285.3	3483.5	4610.3	6065.5	6072.3
57.5°	2506.2	2559.4	2842.5	3183.9	3478.4	3561.0	3831.7	5017.4	6585.9	6579.6
60°	1520.9	1584.3	1922.9	2670.4	3232.6	3837.9	4344.7	5648.2	7154.4	7136.8
62.5°	850.5	869.7	977.9	1598.5	2458.6	3661.8	4845.8	6458.5	7917.6	7858.2
65°	626.8	633.0	658.5	783.1	1208.3	2816.4	4736.0	7427.3	8990.1	8884.2
67.5°	544.7	550.9	575.9	592.8	539.6	1479.6	3901.9	7964.6	10351.9	10213.2
70°	458.6	462.0	502.2	513.6	386.2	562.8	2506.7	7798.7	11612.3	11513.2
72.5°	342.0	355.6	413.9	441.1	309.7	299.0	1180.0	6818.6	11825.8	11826.9
75°	232.2	244.6	311.4	363.0	239.0	209.5	476.2	5091.6	10297.5	10297.5
77.5°	158.5	168.7	216.9	284.8	181.2	143.8	246.9	3231.5	7387.7	7647.6
80°	70.2	76.4	139.9	206.7	137.6	92.9	139.9	1769.5	4467.6	4412.7
82.5°	34.5	39.6	89.5	129.1	88.9	57.2	73.6	841.4	1447.9	1375.9
85°	6.8	9.1	48.1	54.9	41.3	25.5	27.7	258.8	174.4	199.3
87.5°	0.0	0.0	14.7	10.2	4.5	5.7	5.7	23.2	13.6	15.9
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°
1508.4	0°	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4
1533.9	2.5°	1513.5	1492.6	1446.7	1401.4	1355.0	1312.5	1283.1	1253.6	1235.5	1227.6
1567.9	5°	1525.4	1483.0	1386.7	1285.9	1186.3	1088.9	1015.8	947.3	925.8	890.1
1608.1	7.5°	1544.1	1475.0	1323.3	1153.4	991.5	848.8	745.7	663.6	630.8	599.1
1642.6	10°	1556.6	1460.3	1239.5	1012.4	793.3	633.0	534.5	475.1	453.6	434.3
1674.9	12.5°	1561.7	1433.1	1143.2	854.4	617.2	482.4	423.5	395.8	388.4	381.6
1705.5	15°	1566.2	1406.5	1035.6	702.1	487.5	403.7	380.5	371.4	366.4	361.8
1736.6	17.5°	1570.2	1372.6	912.8	570.8	411.7	372.0	360.7	351.1	347.1	342.0
1781.4	20°	1583.8	1339.7	802.9	471.1	370.3	349.4	336.9	326.7	323.3	319.9
1844.8	22.5°	1609.2	1313.1	696.5	403.7	345.4	326.2	310.3	299.0	296.7	294.4
1921.8	25°	1639.8	1280.3	596.2	360.1	321.1	299.5	282.0	272.4	270.1	270.7
2010.7	27.5°	1678.9	1244.0	510.2	332.4	299.5	274.6	254.8	247.4	248.6	250.8
2113.2	30°	1721.9	1210.6	442.8	313.1	280.3	252.5	232.7	227.6	231.6	235.0
2250.2	32.5°	1785.9	1181.2	395.8	297.8	263.3	234.4	218.6	212.3	216.9	221.4
2425.2	35°	1873.1	1166.4	369.2	284.8	248.6	220.3	204.4	199.9	204.4	205.5
2638.7	37.5°	1980.1	1165.3	357.9	274.1	235.0	208.4	190.8	189.1	192.5	193.1
2895.2	40°	2118.3	1172.7	349.4	266.1	220.8	194.8	178.4	176.7	177.8	181.8
3203.8	42.5°	2293.2	1203.2	337.5	255.9	205.5	181.2	168.2	164.2	163.6	168.2
3549.2	45°	2512.9	1270.6	321.6	239.5	192.0	169.9	156.8	152.3	150.6	151.8
3905.9	47.5°	2752.5	1353.3	305.8	224.2	182.3	160.8	147.8	142.1	139.3	139.3
4239.4	50°	2984.6	1446.7	295.0	208.4	175.5	152.3	138.2	132.5	128.0	126.8
4582.5	52.5°	3214.5	1538.5	286.5	192.5	167.6	141.6	129.1	122.9	117.8	115.5
4922.3	55°	3424.0	1625.7	271.8	177.2	157.4	130.2	120.0	113.8	107.6	103.6
5266.5	57.5°	3625.0	1698.1	244.6	161.4	141.6	119.5	110.4	103.6	96.3	91.2
5614.8	60°	3807.9	1735.5	210.6	144.4	125.7	108.2	99.7	93.4	83.8	75.3
5957.3	62.5°	3947.2	1720.8	173.8	125.1	109.3	98.0	87.2	81.0	69.6	59.5
6367.9	65°	4089.9	1640.4	138.7	104.8	95.7	84.4	73.0	66.8	53.8	43.0
6923.3	67.5°	4275.1	1468.8	109.3	87.2	82.7	66.8	57.2	53.2	44.2	34.0
7519.6	70°	4394.0	1141.0	84.9	70.8	67.9	48.7	44.2	43.6	35.1	26.0
7479.4	72.5°	4067.8	748.0	65.1	53.8	48.7	31.7	34.0	34.0	25.5	17.6
6556.4	75°	3395.7	437.7	47.0	38.5	27.7	20.4	23.2	23.2	15.9	8.5
4673.1	77.5°	2425.2	233.3	31.1	23.8	14.2	9.1	12.5	11.9	5.1	0.6
1831.8	80°	927.5	80.4	14.7	9.6	4.0	1.7	1.1	0.6	0.6	0.0
285.9	82.5°	141.6	21.0	2.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
60.6	85°	25.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.9	87.5°	5.7	0.0	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>
1508.4
1228.7
892.4
598.5
433.7
381.6
361.8
342.0
320.5
292.7
269.5
249.7
233.9
220.3
205.0
192.0
181.2
167.6
153.4
139.3
126.3
114.4
101.9
88.9
73.0
55.5
40.2
31.7
23.2
15.3
6.8
0.0
0.0
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0.0
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