

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: P938976

Luminaire Tested: **GALN-SB1B-835-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4098 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

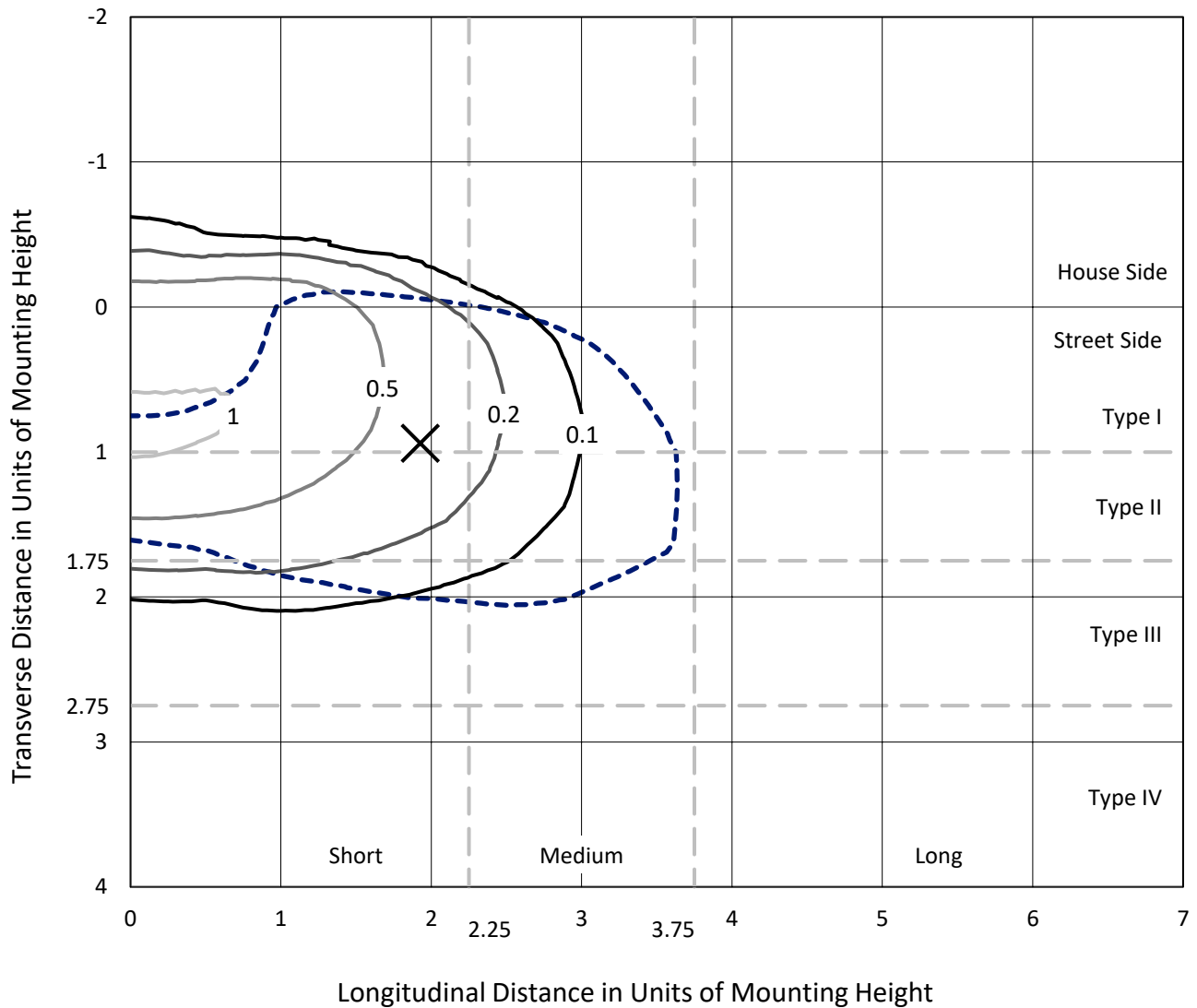
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

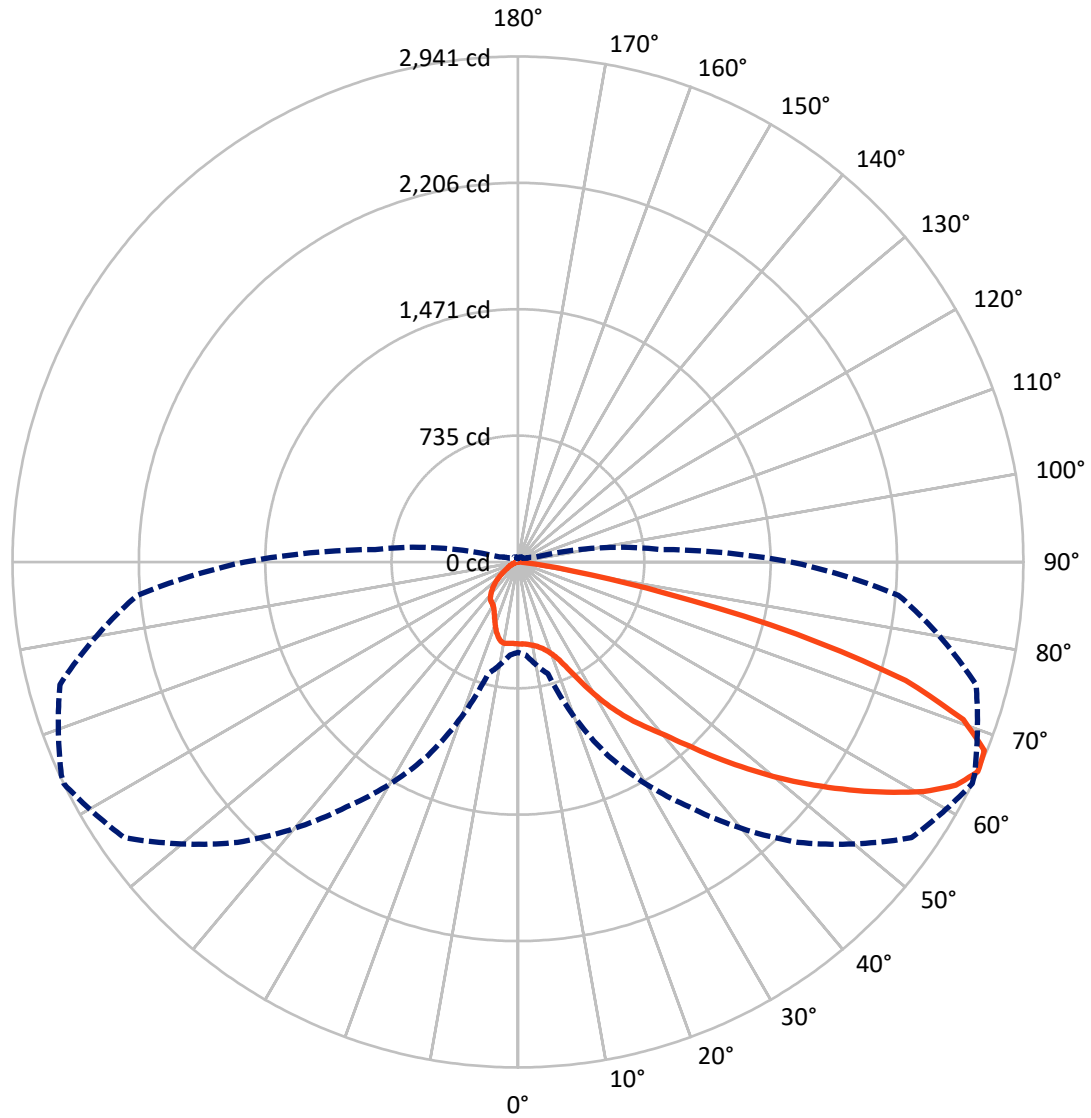
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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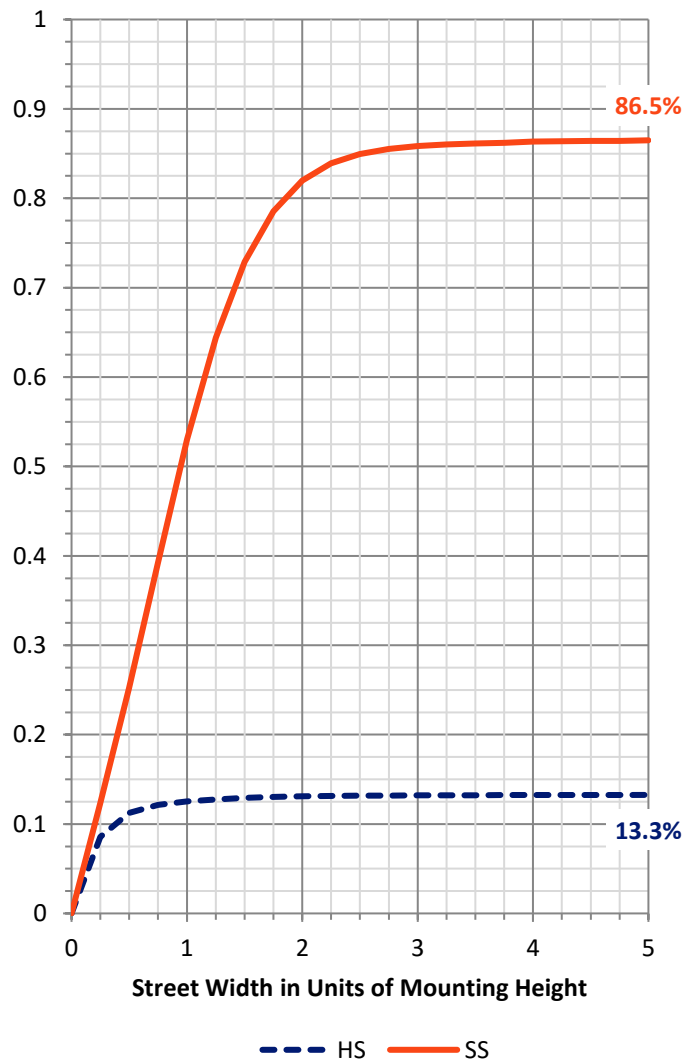
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	548.0	0.0	548.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3550.0	0.0	3550.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	4098.0	0.0	4098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	1.1
10°-20°	119.3	2.9
20°-30°	226.0	5.5
30°-40°	457.3	11.2
40°-50°	779.1	19.0
50°-60°	1059.5	25.9
60°-70°	994.9	24.3
70°-80°	398.6	9.7
80°-90°	19.3	0.5
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°	4098.0	100.0
0°-180°	4098.0	100.0

Coefficient of Utilization



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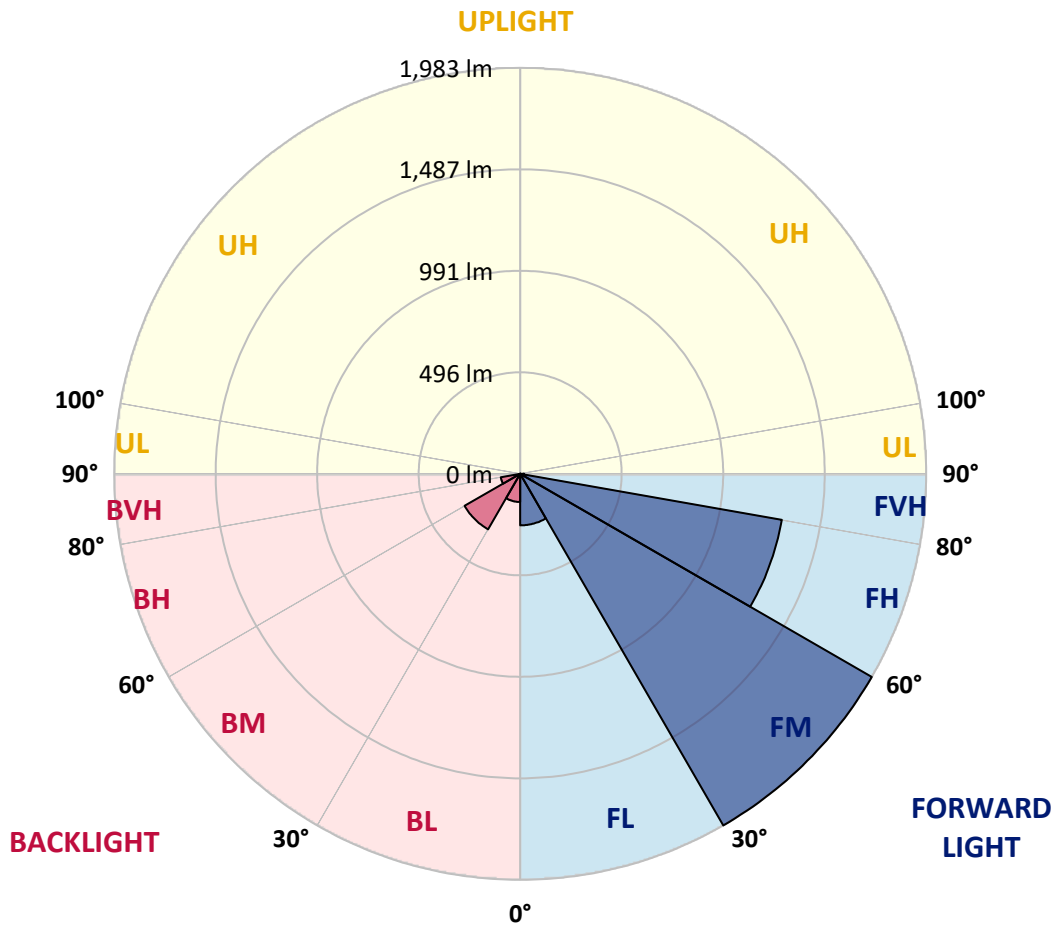
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	251.7	6.1			
FM (30°-60°)	1982.6	48.4			
FH (60°-80°)	1297.3	31.7			G1/1800
FVH (80°-90°)	18.4	0.4			G1/100
BL (0°-30°)	137.6	3.4	B1/500		
BM (30°-60°)	313.3	7.6	B1/1000		
BH (60°-80°)	96.2	2.3	B0/110		G0/110
BVH (80°-90°)	0.9	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	476.6	476.6	476.6	476.6	476.6	476.6	476.6	476.6	476.6	476.6
2.5°	475.0	478.3	477.5	476.6	476.4	476.9	477.2	476.9	476.9	476.9
5°	465.9	468.7	468.7	470.6	473.3	476.6	479.1	479.7	480.2	481.0
7.5°	448.6	450.8	452.5	458.8	465.7	474.4	481.9	485.7	486.3	489.3
10°	436.8	439.6	442.3	448.9	458.8	472.0	484.6	493.9	495.3	502.5
12.5°	436.3	439.0	442.6	449.7	461.3	475.3	490.7	504.1	506.6	517.0
15°	442.0	445.3	448.6	457.4	469.8	486.8	503.3	520.0	522.5	537.4
17.5°	453.8	458.2	460.7	469.5	482.7	501.6	523.3	542.6	544.8	562.1
20°	477.2	482.4	483.2	490.4	503.3	523.6	549.4	573.3	576.1	595.9
22.5°	525.5	533.0	526.4	529.9	541.5	561.8	589.8	620.0	623.9	646.4
25°	610.7	621.1	604.1	598.1	603.0	624.2	659.3	697.5	701.9	720.0
27.5°	778.0	764.5	738.7	713.4	698.6	710.7	750.3	797.5	803.0	820.6
30°	961.8	950.0	915.1	859.1	823.9	822.0	858.5	911.2	917.6	934.3
32.5°	1145.9	1134.6	1096.7	1027.7	966.7	936.5	961.8	1020.3	1023.6	1034.3
35°	1326.9	1315.4	1277.5	1206.8	1131.8	1063.2	1058.2	1124.2	1125.3	1136.5
37.5°	1509.0	1499.4	1459.0	1389.8	1315.9	1221.1	1175.3	1222.5	1223.9	1234.9
40°	1639.0	1643.1	1615.4	1561.8	1498.3	1394.8	1306.6	1327.2	1318.9	1337.3
42.5°	1750.5	1758.8	1734.6	1707.7	1670.8	1579.6	1469.2	1465.6	1452.4	1462.3
45°	1846.9	1853.8	1832.1	1825.8	1825.0	1761.0	1646.9	1625.5	1607.1	1605.2
47.5°	1882.4	1895.6	1904.9	1926.1	1967.3	1940.4	1830.7	1797.5	1776.9	1761.8
50°	1895.8	1909.9	1941.7	2003.3	2100.8	2112.3	2013.7	1976.3	1951.1	1923.6
52.5°	1877.7	1902.7	1945.6	2049.1	2190.6	2250.2	2189.2	2156.6	2127.7	2082.9
55°	1770.8	1795.8	1883.5	2048.6	2235.4	2346.9	2355.2	2340.6	2308.2	2237.6
57.5°	1545.6	1582.7	1721.4	1978.8	2234.6	2430.2	2517.8	2528.3	2492.0	2390.9
60°	1233.5	1283.8	1453.0	1824.1	2165.6	2475.2	2660.4	2712.6	2674.1	2542.0
62.5°	860.7	918.9	1079.1	1581.8	2007.9	2442.8	2764.5	2860.9	2831.8	2677.2
65°	525.0	543.7	672.8	1244.8	1739.8	2307.1	2796.7	2941.2	2931.5	2759.8
67.5°	349.7	365.4	402.5	853.6	1350.5	2036.0	2719.7	2927.1	2929.9	2746.4
70°	210.7	224.2	248.3	496.4	875.3	1611.5	2481.5	2748.6	2764.5	2566.4
72.5°	86.8	95.9	117.9	225.0	453.3	1022.8	1976.1	2359.8	2396.9	2157.9
75°	49.2	53.8	69.2	112.9	196.7	476.6	1197.0	1675.2	1729.9	1487.3
77.5°	32.7	34.9	44.8	73.1	110.7	162.6	511.5	872.8	977.2	812.3
80°	22.0	23.9	30.8	48.9	72.0	69.8	162.9	323.3	397.8	279.1
82.5°	14.8	15.1	22.0	32.1	45.6	33.8	48.1	100.5	126.4	80.8
85°	8.5	8.2	16.2	18.7	20.3	14.0	14.6	30.2	39.6	34.1
87.5°	1.1	1.6	6.3	4.9	2.7	3.0	3.0	5.2	7.7	8.2
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°
476.6	0°	476.6	476.6	476.6	476.6	476.6	476.6	476.6	476.6	476.6	476.6
477.2	2.5°	477.2	476.9	476.1	475.3	473.3	472.2	472.8	472.2	472.0	472.2
480.8	5°	480.8	479.9	477.7	475.0	471.1	466.5	463.5	459.1	454.9	452.5
490.4	7.5°	490.4	489.6	486.5	478.8	466.5	447.0	429.1	413.5	401.6	394.8
505.8	10°	505.8	504.4	499.7	482.7	450.3	407.7	372.2	342.9	323.6	314.6
523.9	12.5°	523.9	522.2	514.0	479.1	419.5	353.0	304.1	271.4	253.6	245.6
544.8	15°	545.3	543.1	526.9	462.1	374.7	292.6	247.8	223.3	211.8	204.7
571.4	17.5°	572.0	568.1	536.5	436.5	326.1	246.4	213.2	194.8	184.6	177.7
606.3	20°	606.6	600.3	544.2	406.0	281.3	217.3	189.8	174.4	166.8	160.7
655.8	22.5°	654.9	645.9	553.6	373.1	249.7	197.2	172.5	161.3	154.9	148.1
724.7	25°	714.8	704.1	565.1	342.6	228.0	179.9	159.9	150.5	143.1	135.2
815.1	27.5°	798.6	779.4	578.8	317.6	209.3	165.1	148.3	137.9	129.4	122.8
917.6	30°	892.0	860.4	590.9	302.5	192.3	151.4	133.2	122.8	114.8	110.2
1009.6	32.5°	980.5	937.6	598.9	295.9	176.9	135.7	116.8	105.5	99.4	98.1
1099.7	35°	1064.0	1007.4	598.1	289.6	163.2	120.1	100.5	89.0	84.3	85.2
1196.7	37.5°	1160.1	1081.8	592.3	279.7	151.9	105.8	86.5	76.4	72.3	72.5
1314.5	40°	1272.0	1167.8	588.7	261.0	139.6	92.6	75.0	66.8	63.7	62.6
1438.7	42.5°	1391.2	1251.1	589.3	239.8	124.2	80.8	67.0	60.2	57.4	56.6
1576.9	45°	1511.0	1330.5	590.1	217.9	108.0	71.7	61.3	55.5	53.8	52.7
1717.0	47.5°	1623.6	1398.1	574.7	194.2	92.0	64.8	56.6	52.7	51.4	50.0
1857.7	50°	1728.5	1443.1	537.6	166.8	79.4	59.3	53.0	50.3	48.9	47.5
1985.1	52.5°	1810.1	1450.2	476.4	138.5	70.6	55.2	50.8	48.4	46.7	45.3
2088.2	55°	1846.4	1405.5	389.3	112.1	63.7	51.6	48.6	46.2	44.2	42.9
2169.2	57.5°	1837.1	1311.2	303.6	90.1	57.1	48.1	45.9	44.2	42.0	39.8
2234.9	60°	1791.2	1185.1	228.8	75.0	51.1	44.2	42.9	41.5	38.5	35.2
2260.1	62.5°	1711.8	1026.6	163.2	62.1	44.5	39.8	39.3	38.2	33.8	27.7
2222.8	65°	1590.4	834.1	109.9	51.6	38.2	34.9	35.2	33.2	27.5	20.6
2086.0	67.5°	1412.9	609.9	70.3	42.3	31.9	29.1	29.4	28.3	23.4	17.6
1826.6	70°	1186.8	403.8	45.9	32.1	25.5	22.5	24.2	24.5	19.8	14.3
1401.9	72.5°	870.0	238.5	32.1	23.9	18.7	15.7	19.8	20.3	15.9	10.7
843.4	75°	495.9	113.2	24.2	17.3	11.5	11.0	15.4	15.4	11.0	7.1
365.1	77.5°	208.2	47.3	17.0	11.3	6.6	6.3	10.4	9.6	5.5	3.3
89.0	80°	60.2	21.2	9.1	5.5	2.7	2.5	4.1	3.0	1.4	0.5
33.8	82.5°	23.6	9.3	3.6	2.2	1.1	1.1	0.5	0.0	0.0	0.0
19.2	85°	14.0	3.8	1.6	0.8	0.3	0.0	0.0	0.0	0.0	0.0
4.1	87.5°	3.6	0.8	0.5	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>
476.6
473.3
453.0
395.0
313.7
244.8
204.9
177.2
159.6
147.0
134.3
121.4
109.3
98.9
85.2
73.6
62.4
56.3
52.7
50.0
47.5
45.1
42.6
39.6
34.6
27.2
20.1
16.8
13.7
10.2
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