

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: P940354

Luminaire Tested: **GALN-SB3B-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11801 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

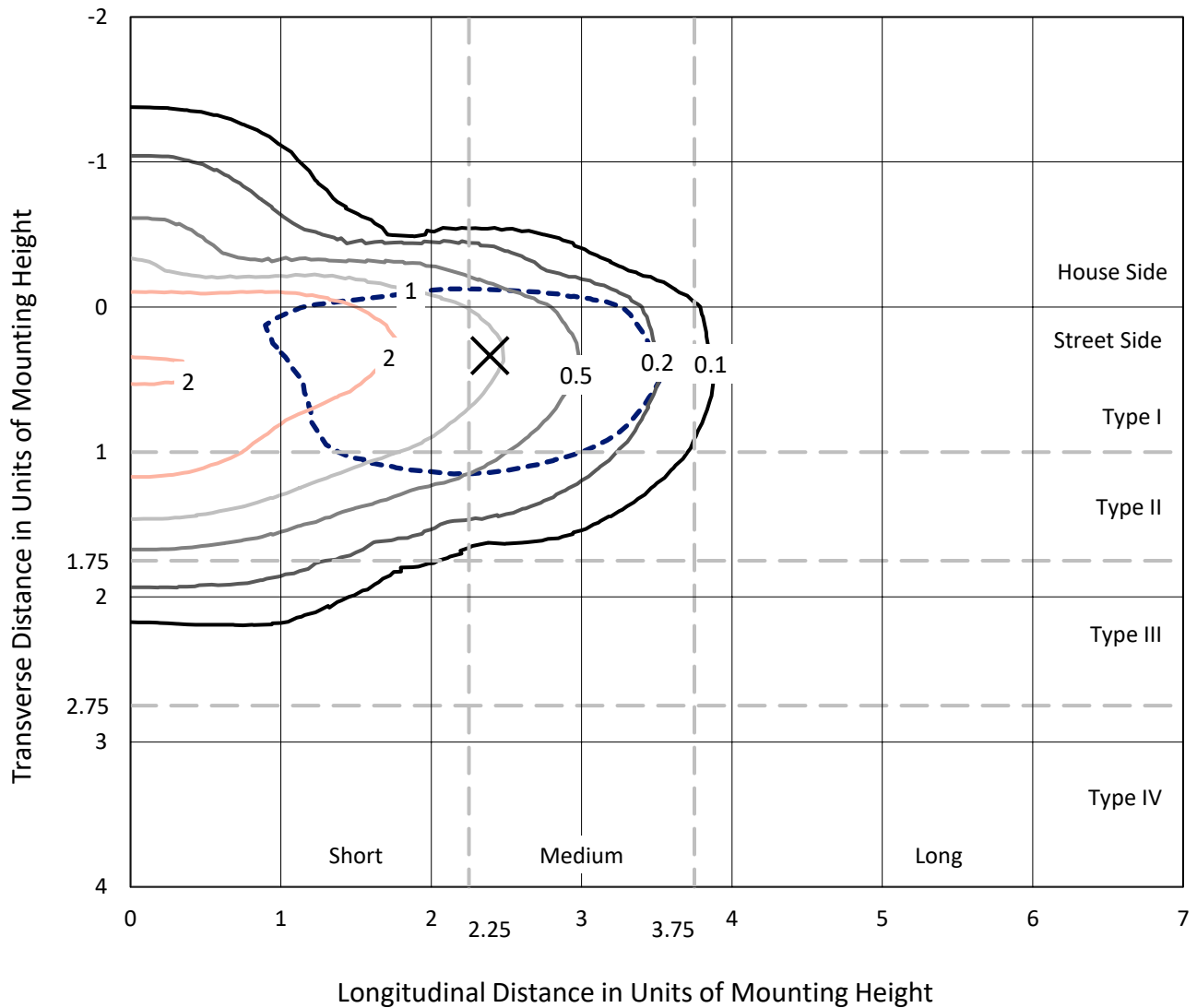
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

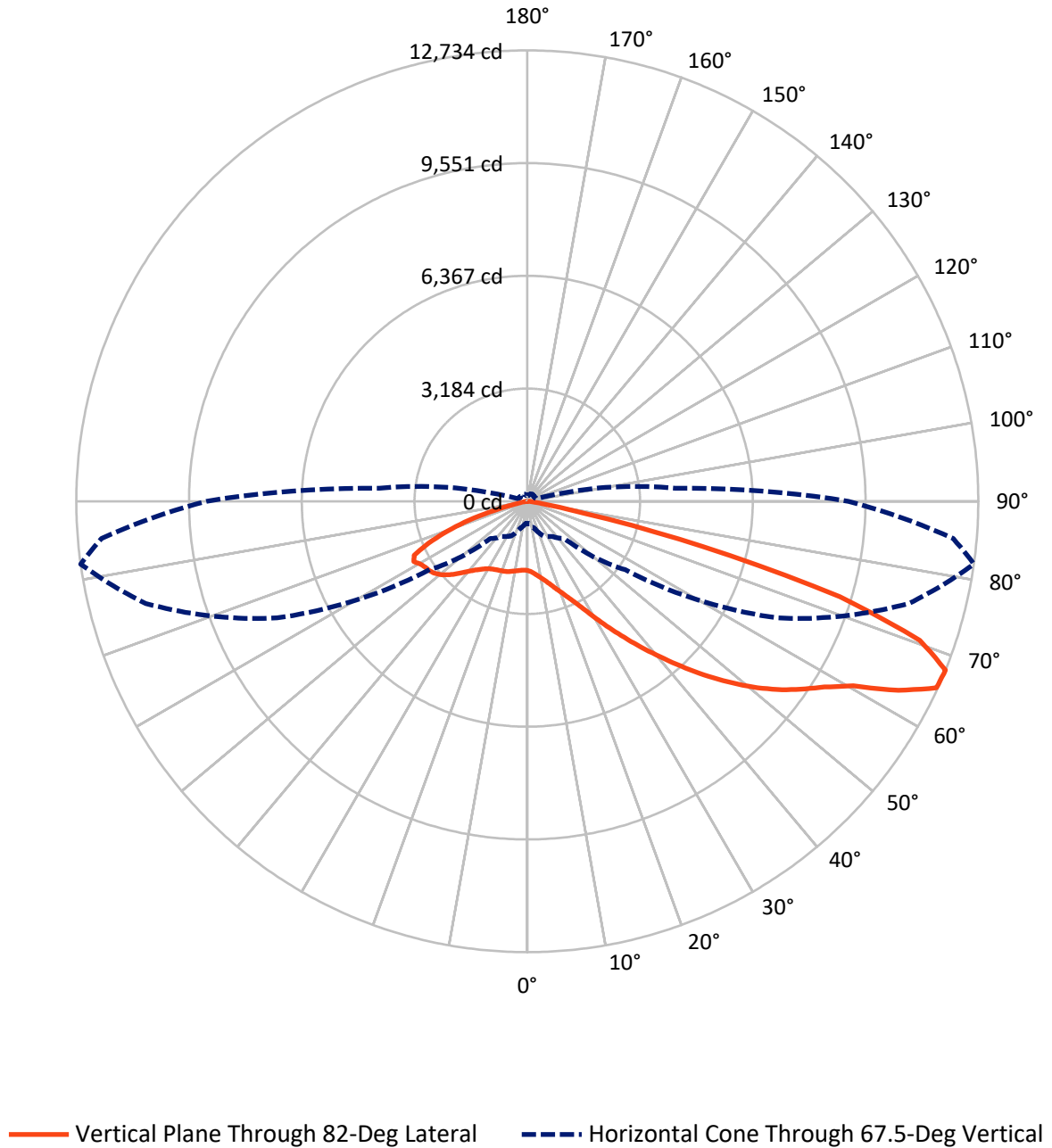
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	2137.6	0.0	2137.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9663.4	0.0	9663.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	11801.0	0.0	11801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	1.5
10°-20°	452.6	3.8
20°-30°	725.0	6.1
30°-40°	1281.9	10.9
40°-50°	2246.1	19.0
50°-60°	2995.6	25.4
60°-70°	2788.8	23.6
70°-80°	1070.3	9.1
80°-90°	66.5	0.6
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°	11801.0	100.0
0°-180°	11801.0	100.0

Coefficient of Utilization



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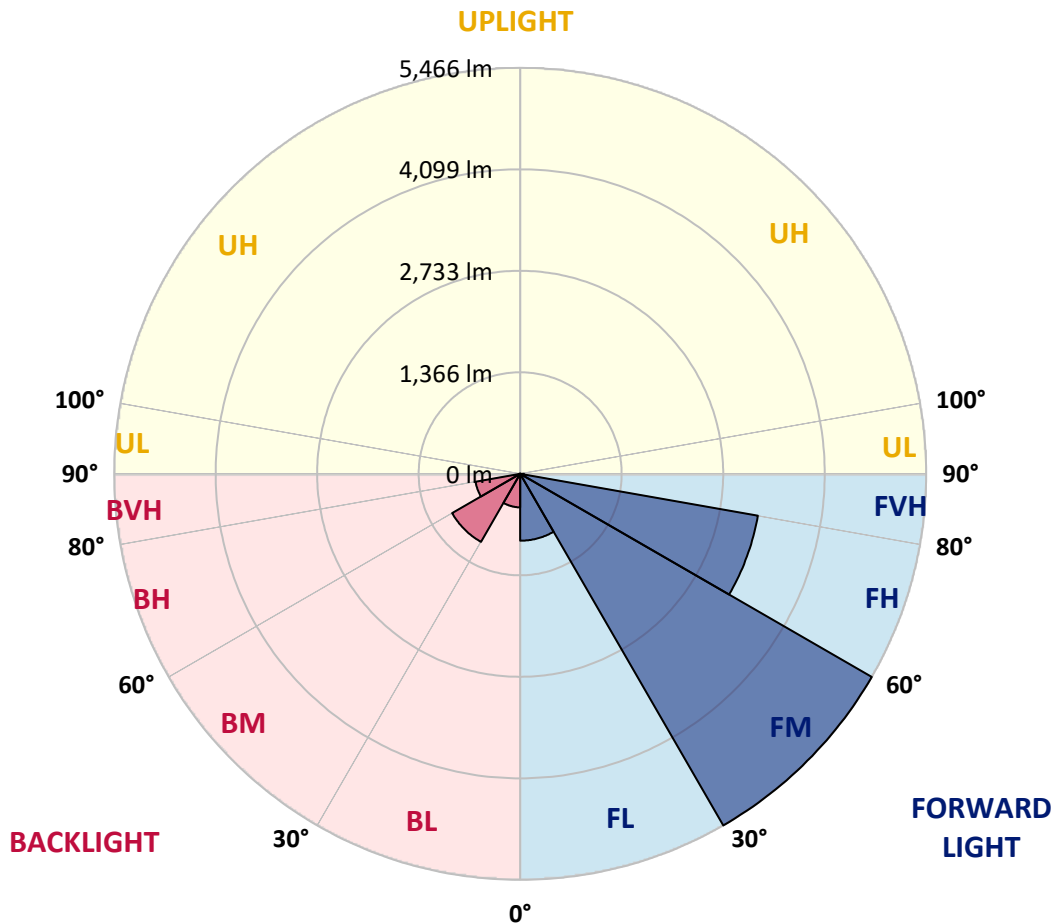
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	900.3	7.6			
FM (30°-60°)	5465.7	46.3			
FH (60°-80°)	3249.0	27.5			G2/5000
FVH (80°-90°)	48.3	0.4			G1/100
BL (0°-30°)	451.5	3.8	B1/500		
BM (30°-60°)	1057.9	9.0	B2/2500		
BH (60°-80°)	610.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	18.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0
2.5°	2066.3	2078.2	2071.4	2068.0	2062.1	2053.6	2046.8	2025.5	2003.5	1989.0
5°	2108.0	2119.9	2119.0	2122.4	2126.7	2129.2	2127.5	2103.7	2072.3	2047.6
7.5°	2072.3	2085.9	2096.9	2113.9	2143.6	2175.1	2190.4	2185.3	2153.0	2119.0
10°	1971.2	1985.6	2012.0	2051.9	2114.8	2182.7	2239.7	2266.0	2245.6	2208.2
12.5°	1785.9	1800.4	1852.2	1938.9	2044.2	2162.3	2271.1	2341.6	2346.7	2309.3
15°	1577.8	1592.2	1647.5	1756.2	1916.8	2106.3	2288.1	2421.5	2466.5	2434.2
17.5°	1448.6	1461.4	1503.0	1590.5	1757.9	1994.1	2282.1	2506.4	2609.3	2583.8
20°	1409.6	1420.6	1440.1	1501.3	1640.7	1877.7	2243.1	2586.3	2763.0	2748.6
22.5°	1451.2	1461.4	1467.3	1494.5	1582.0	1801.2	2193.8	2667.9	2941.5	2943.2
25°	1547.2	1557.4	1550.6	1567.6	1605.8	1777.5	2175.1	2763.9	3165.8	3184.5
27.5°	1705.2	1706.1	1689.9	1689.1	1695.0	1813.1	2194.6	2866.7	3448.7	3483.5
30°	2022.1	2009.4	1947.4	1880.3	1849.7	1920.2	2249.0	2988.2	3782.6	3844.6
32.5°	2510.7	2492.0	2378.1	2217.6	2056.1	2092.7	2346.7	3126.7	4146.3	4258.4
35°	3040.9	3035.8	2916.8	2678.1	2396.0	2338.2	2505.6	3308.5	4543.0	4721.5
37.5°	3533.7	3531.1	3463.1	3181.9	2838.7	2680.6	2760.5	3546.4	4967.9	5226.1
40°	3984.0	3991.6	3923.6	3672.2	3326.3	3119.9	3107.1	3840.4	5440.3	5775.9
42.5°	4373.1	4381.6	4312.8	4126.7	3808.1	3605.9	3532.8	4200.6	5901.6	6366.4
45°	4637.3	4690.0	4679.8	4531.1	4302.6	4092.7	4044.3	4652.6	6427.5	6992.6
47.5°	4712.1	4760.5	4837.0	4857.4	4718.1	4511.6	4569.4	5197.3	6959.4	7619.6
50°	4527.7	4572.8	4731.7	4943.2	5040.1	4976.4	5080.0	5781.0	7504.0	8244.9
52.5°	4164.1	4210.0	4410.5	4745.3	5140.3	5340.8	5592.3	6356.2	8031.7	8837.1
55°	3638.2	3686.6	3944.0	4323.0	4949.2	5491.2	6019.7	6930.5	8515.1	9369.9
57.5°	2922.8	2958.5	3226.1	3756.3	4468.3	5341.7	6334.9	7557.6	8970.5	9893.2
60°	1904.9	1936.3	2247.3	2838.7	3671.3	4842.1	6397.8	8256.8	9575.5	10573.8
62.5°	1266.8	1288.1	1472.4	1906.6	2585.5	3882.9	6029.9	8815.0	10462.5	11758.2
65°	869.2	890.4	1074.8	1377.3	1670.4	2568.5	4972.1	8741.1	11266.3	12698.7
67.5°	620.2	638.1	794.4	1079.9	1209.0	1492.0	3370.5	7796.3	11150.7	12734.4
70°	444.4	454.6	583.7	841.1	960.9	896.4	1874.3	5962.8	9763.2	11759.0
72.5°	311.0	314.4	405.3	640.6	774.0	654.2	892.1	3975.5	7384.2	9229.7
75°	210.7	215.0	272.7	469.9	621.1	499.6	472.4	2131.8	4334.9	5108.9
77.5°	129.1	130.8	175.9	321.2	464.8	380.6	304.2	903.2	1677.2	1646.6
80°	73.1	73.1	112.2	199.7	316.9	245.5	213.3	384.0	531.0	466.5
82.5°	40.8	41.6	81.6	124.0	209.9	145.3	117.3	177.6	229.4	203.1
85°	17.0	18.7	50.1	58.6	100.3	72.2	47.6	74.8	85.0	75.6
87.5°	1.7	2.5	15.3	11.0	11.9	14.4	6.8	14.4	11.9	11.9
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°
1955.0	0°	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0
1983.9	2.5°	1967.8	1955.0	1922.7	1885.4	1836.1	1812.3	1780.0	1757.9	1739.2	1740.9
2033.2	5°	2006.0	1973.7	1901.5	1811.4	1699.3	1619.4	1534.5	1475.8	1428.2	1418.1
2101.2	7.5°	2058.7	2007.7	1881.1	1718.8	1529.4	1385.8	1257.5	1175.1	1116.4	1097.7
2183.6	10°	2126.7	2052.7	1854.8	1602.4	1329.7	1147.0	1009.4	944.8	904.9	891.3
2280.4	12.5°	2205.7	2104.6	1819.9	1460.5	1124.1	948.2	860.7	828.4	815.7	811.4
2399.4	15°	2305.1	2169.1	1767.3	1292.3	949.9	826.7	789.3	785.1	786.8	785.1
2542.1	17.5°	2423.2	2239.7	1681.4	1119.0	832.6	764.7	751.1	754.5	758.7	757.9
2701.9	20°	2552.3	2309.3	1571.8	965.2	752.8	720.5	712.8	716.2	719.6	717.9
2886.2	22.5°	2699.3	2384.1	1450.3	845.4	699.3	679.7	671.2	672.1	672.1	668.7
3119.9	25°	2875.2	2466.5	1322.9	760.4	658.5	643.2	633.0	629.6	624.5	614.3
3403.7	27.5°	3085.1	2554.0	1200.5	701.0	626.2	611.7	599.8	591.4	578.6	561.6
3744.4	30°	3321.3	2660.2	1096.9	663.6	600.7	586.3	572.7	559.9	541.2	520.0
4136.1	32.5°	3599.1	2774.1	1021.3	638.9	577.8	562.5	546.3	531.0	510.6	489.4
4576.2	35°	3930.4	2911.7	977.1	621.9	559.9	539.5	521.7	504.7	489.4	470.7
5054.5	37.5°	4289.8	3057.9	963.5	613.4	548.0	516.6	496.2	484.3	482.6	471.6
5572.0	40°	4683.2	3231.2	973.7	608.3	535.3	494.5	472.4	469.9	474.1	454.6
6125.1	42.5°	5099.6	3436.8	990.7	602.4	517.4	472.4	451.2	451.2	447.8	420.6
6709.6	45°	5549.9	3673.9	1007.7	588.0	496.2	450.3	434.2	428.2	413.8	387.4
7297.6	47.5°	6003.6	3915.2	1020.4	561.6	470.7	431.6	417.2	403.6	382.3	358.5
7874.5	50°	6434.3	4131.8	1006.8	522.5	441.8	413.8	398.5	379.8	356.8	340.7
8420.8	52.5°	6819.2	4319.6	949.1	476.6	411.2	395.1	381.5	361.9	343.3	326.3
8913.6	55°	7154.0	4471.7	847.1	433.3	384.0	378.9	365.3	340.7	315.2	300.8
9402.1	57.5°	7475.2	4587.2	719.6	397.6	359.4	361.1	340.7	318.6	294.8	279.5
10060.6	60°	7902.5	4741.9	590.5	364.5	333.1	338.2	316.1	299.9	270.2	250.6
11189.8	62.5°	8585.6	4982.3	469.0	323.7	302.5	304.2	294.8	275.3	239.6	216.7
12026.7	65°	9127.7	4893.9	369.6	279.5	267.6	270.2	270.2	248.9	210.7	184.4
12071.7	67.5°	9066.5	4190.4	294.8	236.2	234.5	236.2	242.1	224.3	186.9	165.7
11152.4	70°	8352.0	3333.1	236.2	196.3	203.9	199.7	216.7	204.8	168.2	147.0
8646.0	72.5°	6815.0	2401.1	180.1	162.3	156.3	163.1	195.4	184.4	140.2	116.4
4579.6	75°	3982.3	1281.3	134.2	128.3	113.0	135.9	173.3	157.2	107.1	85.8
1403.6	77.5°	1296.6	446.9	98.6	94.3	84.1	109.6	147.8	132.5	87.5	68.0
411.2	80°	347.5	135.1	67.1	62.0	54.4	81.6	117.3	105.4	62.9	44.2
176.7	82.5°	139.3	56.9	39.1	34.8	29.7	56.1	92.6	85.0	46.7	28.0
55.2	85°	45.0	18.7	14.4	11.0	13.6	34.8	55.2	57.8	33.1	14.4
8.5	87.5°	5.9	2.5	2.5	3.4	2.5	5.9	17.0	16.1	9.3	1.7
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>
1955.0
1723.9
1395.1
1079.0
881.1
808.9
784.2
756.2
717.1
667.0
612.6
559.9
518.3
490.2
469.0
470.7
455.4
420.6
386.6
357.7
338.2
324.6
299.1
277.8
248.1
215.0
181.8
162.3
144.4
113.9
83.3
65.4
43.3
28.0
11.0
0.0
0.0

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