

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: P949364

Luminaire Tested: **GALN-SB4A-850-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-850-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13246 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

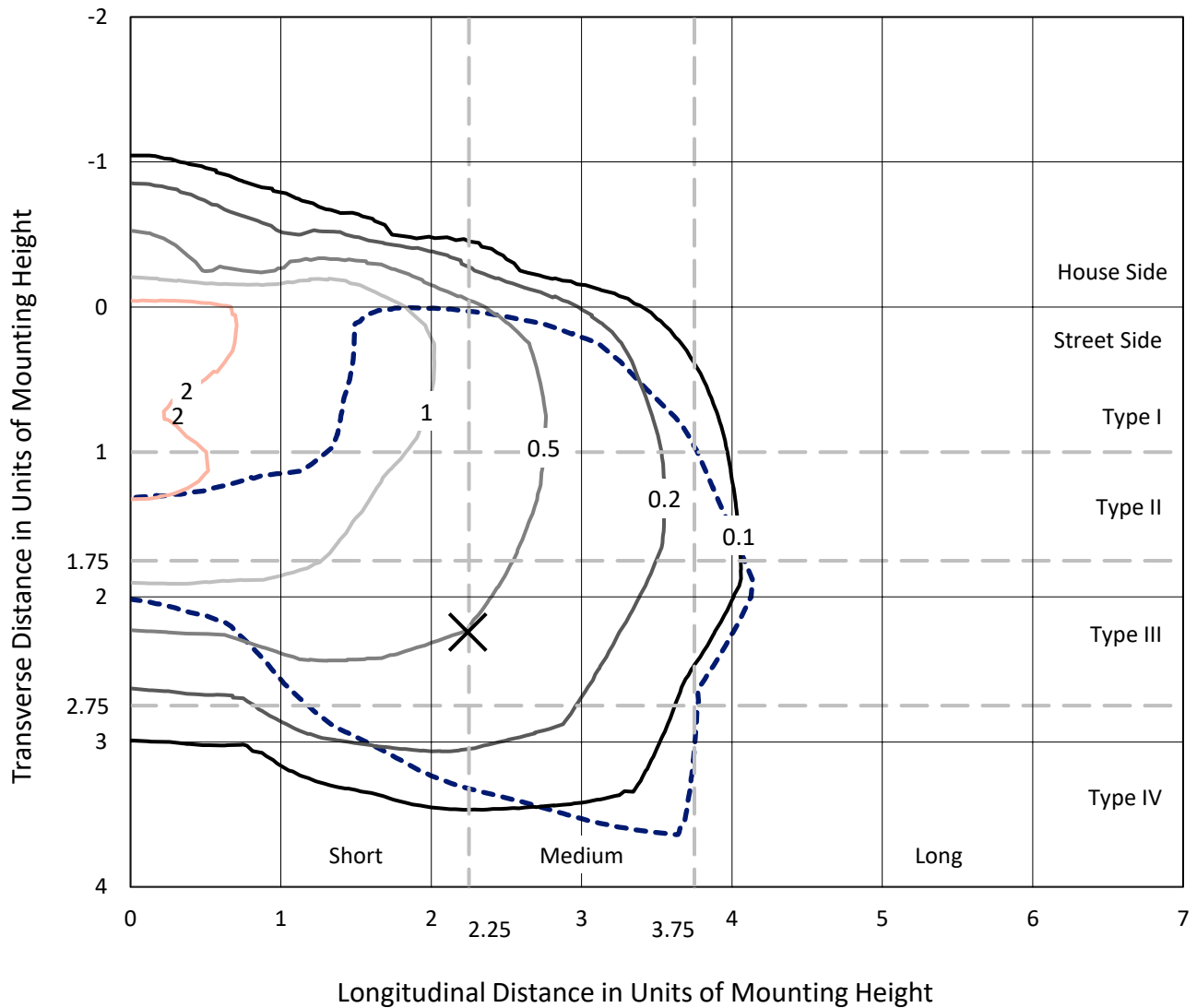
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

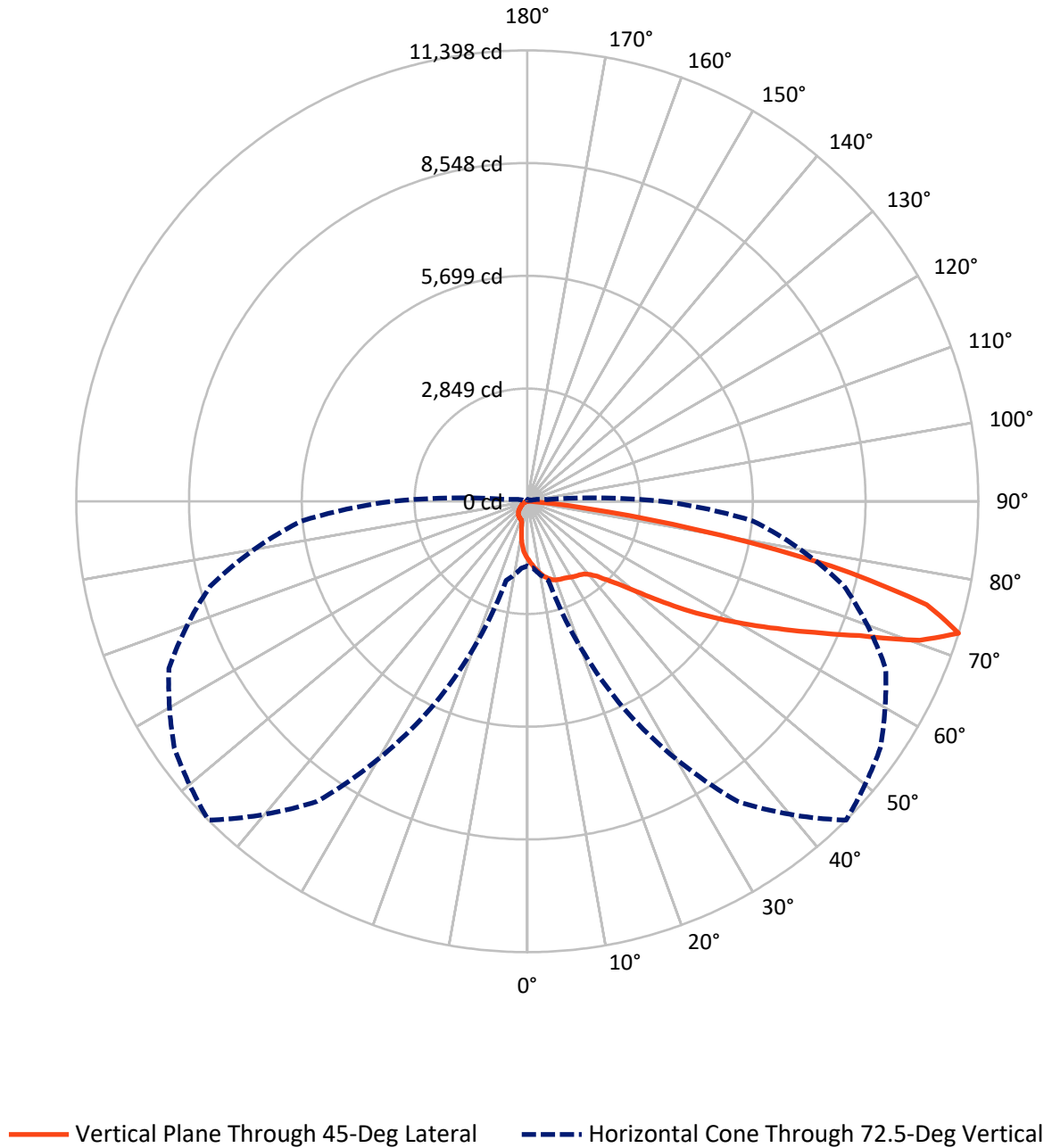
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P949364
CATALOG NUMBER: GALN-SB4A-850-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1391.8	0.0	1391.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11854.2	0.0	11854.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	13246.0	0.0	13246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	1.0
10°-20°	399.6	3.0
20°-30°	656.2	5.0
30°-40°	930.6	7.0
40°-50°	1538.2	11.6
50°-60°	2763.3	20.9
60°-70°	3836.9	29.0
70°-80°	2783.2	21.0
80°-90°	201.2	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°	13246.0	100.0
0°-180°	13246.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949364

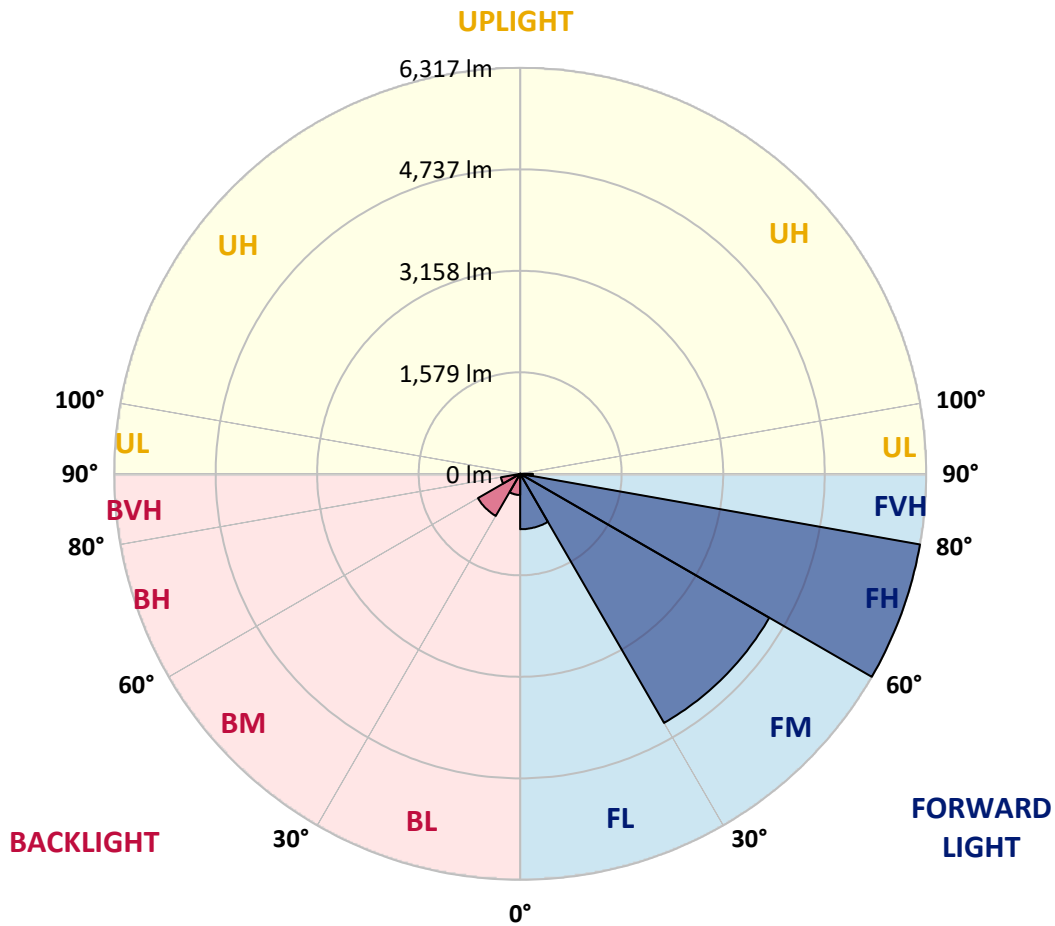
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.8	6.5			
FM (30°-60°)	4475.2	33.8			
FH (60°-80°)	6316.6	47.7			G3/7500
FVH (80°-90°)	199.5	1.5			G2/225
BL (0°-30°)	329.7	2.5	B1/500		
BM (30°-60°)	756.9	5.7	B1/1000		
BH (60°-80°)	303.5	2.3	B1/500		G1/500
BVH (80°-90°)	1.7	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-G3

Type IV Short



REPORT NUMBER: P949364
 CATALOG NUMBER: GALN-SB4A-850-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1
2.5°	1584.9	1587.7	1585.8	1575.0	1556.9	1547.0	1541.5	1523.5	1511.7	1490.9
5°	1730.5	1741.4	1735.0	1713.3	1679.0	1654.6	1647.3	1610.3	1576.8	1537.9
7.5°	1885.1	1890.5	1878.8	1850.8	1804.6	1763.1	1756.7	1705.2	1651.8	1592.2
10°	2018.9	2025.2	2007.2	1966.5	1914.0	1862.5	1853.5	1796.5	1733.2	1660.0
12.5°	2131.0	2137.4	2113.9	2065.0	2007.2	1953.8	1944.8	1885.1	1815.5	1734.1
15°	2216.0	2227.8	2196.1	2143.7	2081.3	2028.0	2023.4	1964.7	1896.9	1806.5
17.5°	2265.7	2277.5	2247.7	2184.4	2131.0	2085.8	2080.4	2031.6	1968.3	1881.5
20°	2273.9	2284.7	2253.1	2197.9	2153.6	2117.5	2114.8	2079.5	2033.4	1950.2
22.5°	2249.5	2263.0	2234.1	2189.8	2159.1	2140.1	2136.5	2116.6	2090.3	2019.8
25°	2224.2	2235.0	2213.3	2174.4	2158.2	2156.3	2159.1	2155.4	2150.0	2090.3
27.5°	2222.3	2234.1	2209.7	2172.6	2163.6	2182.6	2185.3	2202.5	2207.0	2154.5
30°	2237.7	2245.9	2222.3	2183.5	2179.0	2222.3	2223.3	2254.0	2261.2	2208.8
32.5°	2271.2	2280.2	2256.7	2199.7	2193.4	2254.0	2256.7	2297.4	2309.1	2266.7
35°	2349.8	2360.7	2333.6	2245.0	2222.3	2283.8	2292.0	2339.9	2363.4	2328.1
37.5°	2546.0	2514.4	2477.3	2336.3	2288.4	2330.8	2344.4	2400.5	2442.1	2401.4
40°	3033.4	2933.9	2818.2	2491.8	2404.1	2431.2	2442.1	2498.1	2555.1	2515.3
42.5°	3764.8	3647.3	3461.0	2849.8	2578.6	2592.1	2600.3	2649.1	2729.6	2697.9
45°	4416.7	4374.2	4184.3	3461.0	2905.0	2838.1	2848.0	2873.3	2991.8	2980.0
47.5°	4917.6	4893.1	4746.7	4162.6	3456.5	3139.1	3167.2	3178.9	3349.8	3391.4
50°	5302.7	5293.7	5162.6	4786.5	4177.1	3583.1	3593.0	3567.7	3823.6	3926.6
52.5°	5666.2	5696.9	5600.2	5366.0	4946.5	4164.4	4162.6	4043.3	4388.6	4544.2
55°	5994.4	6005.2	6015.2	5957.3	5720.4	4826.2	4809.1	4613.8	5044.1	5205.1
57.5°	6302.7	6307.2	6395.8	6514.3	6526.0	5536.9	5505.2	5271.1	5760.2	5875.0
60°	6509.7	6530.5	6717.7	7046.8	7190.5	6270.1	6253.0	6014.3	6488.9	6542.3
62.5°	6211.4	6337.9	6809.9	7462.7	7818.0	7082.9	7074.8	6850.6	7255.6	7212.2
65°	5027.9	5242.1	6072.1	7743.9	8433.7	7990.7	8002.4	7763.8	8043.1	7902.1
67.5°	3517.1	3743.1	4725.0	7766.5	9121.8	9056.7	9124.5	8750.2	8879.5	8563.0
70°	2432.1	2548.7	3188.0	7280.0	9657.9	10525.0	10523.2	9961.7	9711.3	8864.1
72.5°	1635.6	1696.1	2070.5	5775.6	9263.7	11397.5	11345.0	10887.5	9991.5	8290.0
75°	689.9	734.2	958.4	3245.8	7328.9	10427.3	10285.4	9621.7	8877.6	6527.8
77.5°	218.8	237.8	377.9	1161.8	4036.9	7837.9	7687.8	6008.8	5950.1	3274.8
80°	104.0	121.2	212.5	466.5	1588.6	4263.0	4242.2	2725.9	2559.6	884.2
82.5°	45.2	53.3	117.5	249.5	710.6	1520.7	1551.5	927.6	767.6	335.4
85°	14.5	19.0	54.2	114.8	300.2	377.9	373.4	220.6	309.2	182.6
87.5°	0.0	0.0	18.1	26.2	30.7	21.7	24.4	19.0	85.9	50.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949364

CATALOG NUMBER: GALN-SB4A-850-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1451.1	0°	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1
1469.2	2.5°	1458.4	1443.9	1418.6	1395.1	1374.3	1353.5	1340.8	1322.7	1320.9	1320.9
1492.7	5°	1468.3	1444.8	1399.6	1351.7	1296.5	1244.1	1191.6	1141.0	1124.7	1113.0
1530.7	7.5°	1497.2	1460.2	1388.7	1297.4	1192.5	1077.7	997.3	910.5	877.0	858.9
1581.3	10°	1538.8	1488.2	1379.7	1219.7	1049.7	893.3	778.5	684.4	648.3	632.9
1636.5	12.5°	1584.9	1522.6	1363.4	1122.9	893.3	706.1	594.0	550.6	545.2	545.2
1702.5	15°	1640.1	1564.1	1335.4	1009.0	729.6	558.8	519.0	520.8	526.2	529.8
1766.7	17.5°	1697.1	1608.4	1291.1	881.5	585.0	502.7	503.6	506.3	510.8	514.4
1836.3	20°	1758.5	1652.7	1232.3	745.9	501.8	486.4	489.1	491.8	495.5	497.3
1901.4	22.5°	1824.5	1694.3	1162.7	613.0	473.8	472.9	473.8	476.5	481.0	481.0
1977.3	25°	1895.1	1740.4	1083.1	516.3	459.3	459.3	461.1	462.9	466.5	466.5
2050.6	27.5°	1967.4	1782.9	999.1	465.6	446.6	445.7	445.7	448.4	450.3	451.2
2122.9	30°	2046.9	1832.7	915.0	454.8	436.7	432.2	429.5	431.3	433.1	434.0
2198.8	32.5°	2128.3	1880.6	839.9	459.3	426.7	418.6	409.6	407.8	407.8	411.4
2277.5	35°	2218.7	1933.0	782.1	474.7	421.3	398.7	384.3	376.1	377.0	382.4
2371.5	37.5°	2327.2	1996.3	739.6	488.2	417.7	376.1	352.6	342.7	336.3	342.7
2500.8	40°	2469.2	2089.4	708.8	499.1	413.2	349.9	318.3	302.0	290.2	293.8
2701.5	42.5°	2678.0	2235.9	697.1	500.0	403.2	319.2	283.0	261.3	244.1	245.0
3003.5	45°	2971.0	2467.4	757.7	488.2	381.5	285.7	245.9	217.0	206.1	203.4
3454.7	47.5°	3372.4	2804.6	897.8	463.8	349.9	253.2	209.8	185.3	177.2	172.7
4046.9	50°	3910.4	3237.7	1053.3	436.7	318.3	222.4	179.9	164.6	159.1	154.6
4749.4	52.5°	4534.2	3677.1	1180.8	409.6	286.6	195.3	160.9	151.9	147.4	143.8
5427.5	55°	5106.5	3980.0	1173.6	380.6	255.9	173.6	147.4	141.9	136.5	132.9
6011.6	57.5°	5462.7	4022.5	967.4	349.0	220.6	156.4	134.7	131.1	124.8	120.2
6517.0	60°	5626.4	3780.2	678.1	307.4	185.3	140.1	121.2	119.3	111.2	104.9
6995.2	62.5°	5656.2	3329.9	452.1	255.9	154.6	124.8	107.6	104.9	94.0	83.2
7384.0	65°	5535.1	2686.2	312.8	199.8	132.0	108.5	92.2	86.8	75.0	64.2
7476.2	67.5°	5151.7	1886.0	217.9	143.8	112.1	85.9	73.2	71.4	62.4	53.3
7006.1	70°	4449.2	1075.0	145.6	107.6	88.6	58.8	57.9	59.7	50.6	43.4
5724.0	72.5°	3411.3	491.8	90.4	78.7	60.6	39.8	46.1	47.0	38.9	32.5
3571.3	75°	2008.1	210.7	57.0	50.6	30.7	26.2	33.5	34.4	26.2	20.8
1305.6	77.5°	683.5	79.6	36.2	29.8	15.4	14.5	21.7	21.7	14.5	8.1
262.2	80°	155.5	29.8	18.1	11.8	7.2	6.3	7.2	6.3	3.6	0.9
80.5	82.5°	44.3	11.8	7.2	4.5	2.7	2.7	0.9	0.0	0.0	0.0
28.0	85°	12.7	5.4	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
9.9	87.5°	5.4	0.9	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>
1451.1
1325.5
1118.4
861.6
632.9
545.2
529.8
514.4
498.2
482.8
467.4
452.1
435.8
414.1
385.2
340.9
292.0
241.4
199.8
170.0
153.7
142.9
131.1
119.3
103.1
77.8
60.6
50.6
39.8
28.9
18.1
6.3
0.0
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