

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: P939557

Luminaire Tested: **GALN-SB2A-950-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-950-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6245 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

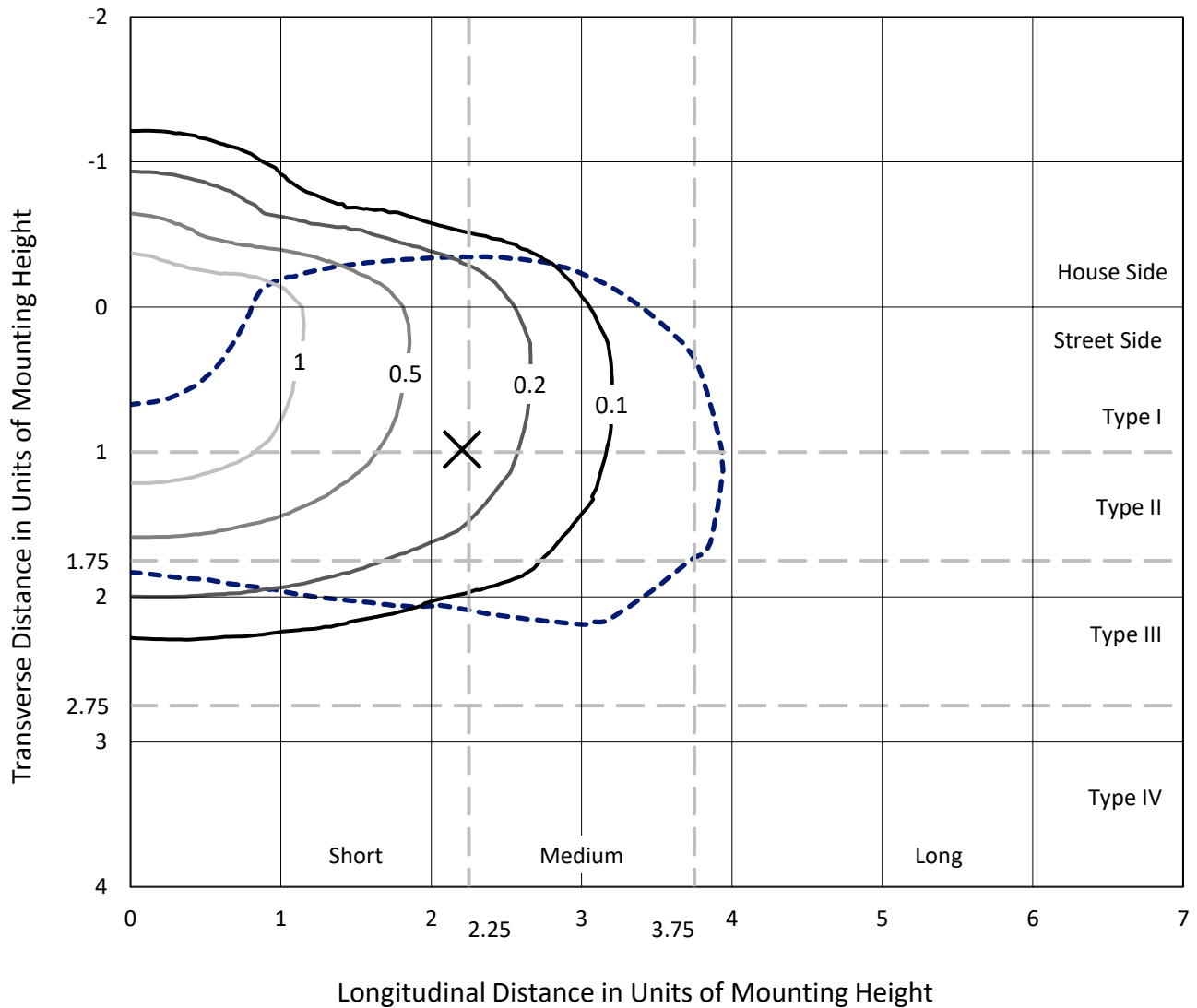
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

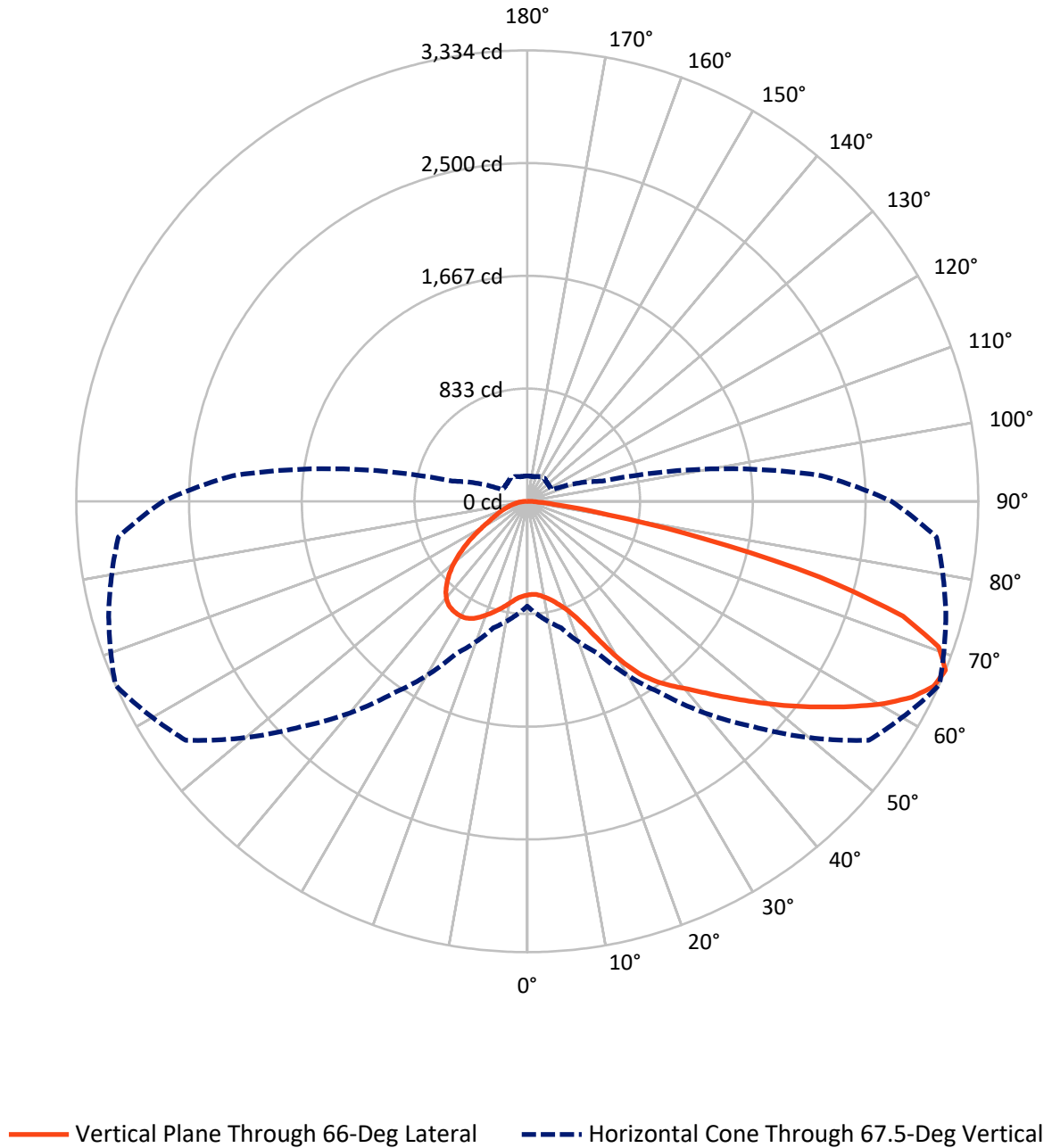
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1552.8	0.0	1552.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	4692.2	0.0	4692.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	6245.0	0.0	6245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	1.1
10°-20°	226.9	3.6
20°-30°	437.3	7.0
30°-40°	766.8	12.3
40°-50°	1139.9	18.3
50°-60°	1445.0	23.1
60°-70°	1413.9	22.6
70°-80°	674.4	10.8
80°-90°	72.1	1.2
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°	6245.0	100.0
0°-180°	6245.0	100.0

Coefficient of Utilization



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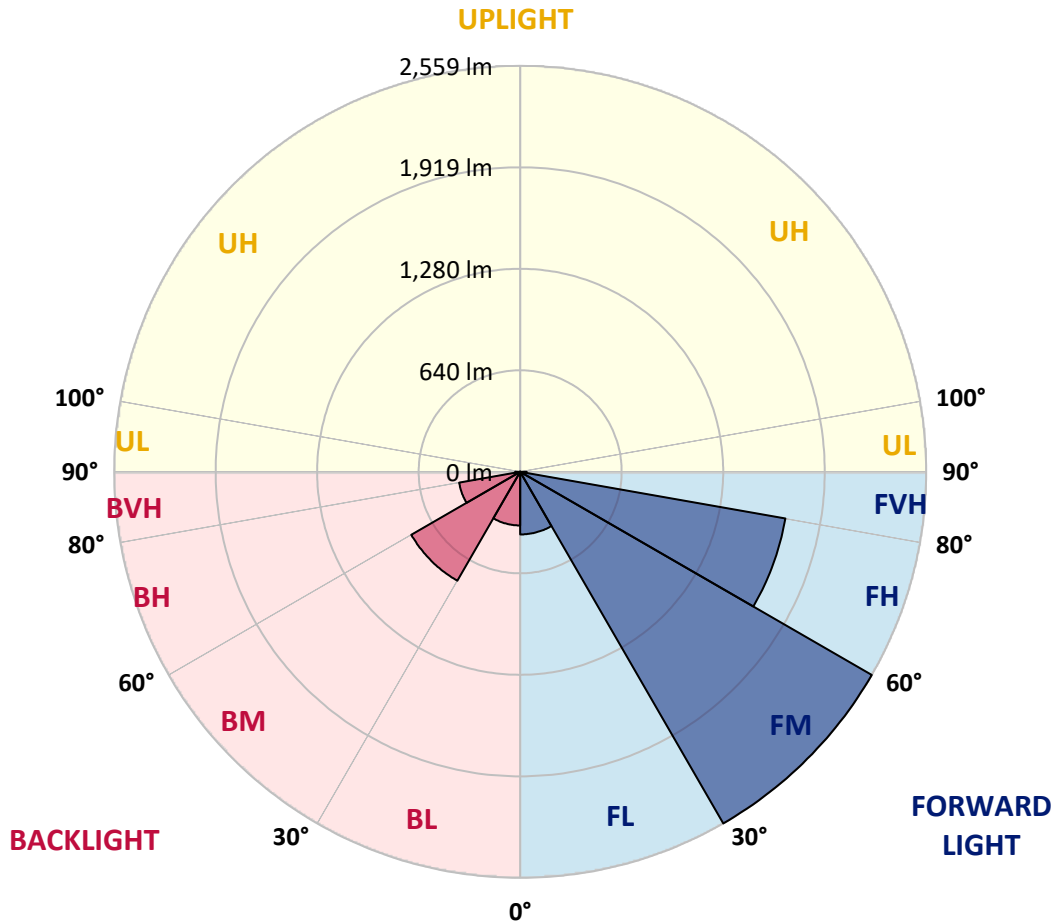
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	394.6	6.3			
FM (30°-60°)	2559.1	41.0			
FH (60°-80°)	1697.6	27.2			G1/1800
FVH (80°-90°)	40.9	0.7			G1/100
BL (0°-30°)	338.3	5.4	B1/500		
BM (30°-60°)	792.6	12.7	B1/1000		
BH (60°-80°)	390.8	6.3	B1/500		G1/500
BVH (80°-90°)	31.2	0.5			G1/100
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°	65°	66°	75°
0°	692.7	692.7	692.7	692.7	692.7	692.7	692.7	692.7	692.7	692.7
2.5°	685.4	689.4	688.4	686.7	686.4	687.1	688.1	689.0	688.7	690.4
5°	683.5	687.4	687.1	687.1	688.4	691.0	692.7	694.3	692.7	694.6
7.5°	684.8	687.7	689.0	690.4	693.6	698.6	702.5	706.1	704.1	706.4
10°	701.5	703.8	705.1	705.1	707.4	713.0	716.9	723.5	721.9	725.5
12.5°	732.0	734.3	734.3	733.0	734.7	738.3	739.6	746.8	743.8	749.7
15°	769.4	774.0	770.4	768.1	768.8	772.4	772.1	777.6	774.7	779.6
17.5°	810.8	816.7	810.8	810.4	809.1	813.1	813.4	818.3	813.1	816.7
20°	859.7	867.9	862.9	864.6	861.6	863.3	864.9	872.1	863.9	866.6
22.5°	928.6	938.4	933.2	939.4	937.4	936.1	935.8	948.6	935.8	936.8
25°	1029.0	1040.8	1031.6	1040.1	1040.1	1044.4	1049.3	1065.7	1044.4	1038.2
27.5°	1177.3	1189.1	1171.0	1176.3	1174.7	1185.2	1179.9	1220.6	1197.6	1187.5
30°	1355.8	1376.8	1342.7	1341.3	1339.7	1356.4	1364.0	1390.9	1367.6	1357.4
32.5°	1548.7	1570.7	1530.0	1518.2	1512.0	1522.1	1515.9	1537.6	1521.5	1505.7
35°	1752.8	1774.5	1735.7	1712.8	1687.8	1666.5	1644.2	1649.8	1634.7	1610.7
37.5°	1945.7	1985.4	1944.4	1919.8	1873.9	1832.2	1769.9	1743.9	1729.8	1707.8
40°	2142.3	2164.9	2133.7	2112.7	2062.9	1997.6	1897.8	1843.0	1824.0	1802.7
42.5°	2287.0	2308.6	2291.9	2277.5	2238.4	2162.6	2033.7	1965.1	1937.5	1913.6
45°	2401.8	2417.9	2407.4	2412.6	2395.9	2322.4	2174.4	2096.0	2067.5	2038.3
47.5°	2448.1	2465.1	2481.9	2513.0	2541.6	2487.4	2325.7	2237.8	2207.6	2177.7
50°	2442.8	2460.2	2508.8	2575.1	2663.6	2645.6	2485.2	2388.7	2360.8	2326.7
52.5°	2400.8	2420.5	2482.9	2593.1	2734.2	2764.0	2647.6	2544.5	2518.3	2477.6
55°	2290.6	2302.4	2395.9	2552.1	2750.9	2846.7	2806.7	2710.6	2684.3	2627.6
57.5°	2086.2	2103.2	2239.4	2441.5	2708.9	2902.8	2946.5	2885.1	2859.9	2778.2
60°	1819.4	1846.6	2002.5	2255.8	2602.0	2902.5	3073.5	3056.7	3035.7	2926.5
62.5°	1517.5	1549.0	1699.0	1993.3	2414.9	2820.2	3152.9	3200.4	3189.6	3063.3
65°	1165.5	1187.1	1336.4	1653.7	2123.9	2643.3	3162.1	3298.6	3300.5	3167.3
67.5°	776.0	838.3	967.9	1240.9	1734.1	2354.2	3081.3	3314.6	3333.7	3203.1
70°	378.6	460.7	587.7	806.5	1240.9	1910.9	2870.4	3182.7	3225.1	3098.7
72.5°	157.2	183.7	253.0	398.0	712.3	1289.5	2446.4	2825.1	2903.5	2745.7
75°	106.0	114.8	144.7	204.1	324.5	635.9	1764.3	2106.5	2232.8	2073.7
77.5°	81.7	87.3	105.3	142.7	192.9	240.5	944.3	1269.5	1334.8	1235.7
80°	64.3	68.6	78.7	104.0	136.8	128.6	321.9	575.2	612.9	514.2
82.5°	55.8	57.4	56.4	70.5	90.9	75.1	105.7	212.3	234.3	170.0
85°	40.4	45.0	46.9	43.6	48.2	38.1	43.3	75.1	82.7	73.8
87.5°	16.4	24.3	29.9	28.2	17.7	10.8	13.5	22.0	25.3	27.6
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°
692.7	0°	692.7	692.7	692.7	692.7	692.7	692.7	692.7	692.7	692.7	692.7
693.0	2.5°	693.3	695.6	697.2	699.2	700.5	702.5	706.4	708.7	709.1	710.7
698.2	5°	699.5	702.8	706.4	711.7	717.6	722.5	730.1	735.3	737.3	738.9
711.0	7.5°	713.0	717.6	724.2	733.3	741.9	748.4	757.6	763.9	770.1	772.4
731.4	10°	733.0	739.6	749.1	761.6	770.7	779.3	788.8	794.0	800.3	802.9
755.7	12.5°	757.9	764.8	777.3	794.7	803.2	809.1	812.4	811.1	812.4	814.7
784.9	15°	786.5	794.0	808.1	826.9	832.8	827.5	820.3	813.7	812.7	813.4
820.3	17.5°	820.3	825.9	842.3	858.0	853.8	832.1	816.4	805.9	800.6	799.0
865.6	20°	867.5	867.5	881.0	890.8	862.3	825.5	800.9	783.9	773.0	768.4
927.3	22.5°	925.0	919.7	928.2	921.3	860.6	807.2	773.0	743.5	727.1	720.5
1013.6	25°	997.8	991.6	989.3	946.6	848.8	778.0	722.5	686.7	672.3	668.7
1137.9	27.5°	1107.7	1092.0	1062.1	960.4	827.2	732.0	663.5	630.3	622.1	622.4
1297.7	30°	1254.1	1222.6	1149.4	962.7	791.7	667.1	603.1	579.5	575.5	577.2
1431.9	32.5°	1389.6	1359.7	1238.6	952.2	737.3	603.4	548.9	533.2	527.3	529.3
1534.3	35°	1495.9	1487.7	1321.3	937.4	670.3	543.7	500.4	486.9	475.4	472.8
1630.7	37.5°	1596.3	1593.0	1383.3	916.8	604.1	501.4	461.3	443.6	426.9	417.7
1737.4	40°	1706.5	1703.3	1424.0	884.9	545.3	464.6	426.2	402.9	382.3	365.5
1858.1	42.5°	1830.6	1811.2	1443.4	839.3	495.5	433.4	397.7	366.2	338.9	323.5
1994.6	45°	1966.1	1922.4	1443.1	781.2	453.5	404.9	367.2	322.5	297.3	282.8
2134.7	47.5°	2109.8	2028.7	1425.3	716.9	412.8	373.4	319.9	285.8	269.1	260.2
2287.0	50°	2258.1	2128.2	1395.1	643.1	371.1	337.6	290.4	267.1	254.3	246.1
2437.9	52.5°	2397.5	2218.4	1358.7	559.4	328.8	302.9	277.3	259.2	245.8	236.6
2584.2	55°	2527.1	2296.2	1307.2	473.8	294.3	279.6	271.0	255.9	240.5	229.7
2732.9	57.5°	2642.3	2346.7	1218.3	393.4	269.7	263.5	264.5	250.4	232.6	223.4
2879.2	60°	2738.1	2383.8	1086.7	318.9	249.7	247.7	254.3	239.9	219.2	208.7
3002.9	62.5°	2795.5	2383.1	925.3	261.2	232.6	233.3	240.8	226.7	205.7	195.9
3067.6	65°	2790.6	2324.7	748.1	223.4	216.2	216.9	226.7	212.3	194.6	188.7
3035.1	67.5°	2691.9	2182.3	573.9	198.8	198.2	201.1	212.6	202.4	187.7	187.0
2841.5	70°	2424.4	1886.7	413.4	179.2	179.5	183.7	198.8	196.2	184.1	185.4
2389.0	72.5°	1944.1	1438.5	277.6	158.5	158.8	165.7	185.7	191.3	180.5	197.9
1695.0	75°	1294.7	897.1	178.5	136.5	136.8	145.7	174.2	181.8	170.6	197.2
882.0	77.5°	622.1	403.3	129.3	114.8	114.8	123.0	150.6	162.7	145.4	153.2
283.5	80°	214.9	151.6	101.7	92.5	90.6	96.1	127.0	141.1	125.3	115.5
92.5	82.5°	84.7	78.7	81.7	71.9	65.3	68.9	98.8	116.5	92.2	83.3
52.2	85°	48.6	51.2	57.7	47.6	37.7	42.3	72.5	83.7	69.6	61.4
17.1	87.5°	13.1	18.0	26.6	24.6	17.1	18.0	34.5	46.3	40.0	30.8
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>
692.7
710.4
738.6
772.7
804.2
815.4
815.7
801.3
767.5
719.6
669.4
623.4
582.7
531.9
474.8
418.0
367.2
324.5
282.2
258.2
243.1
232.6
225.4
217.5
204.1
192.9
188.3
<i>188.0</i>
185.1
200.5
198.8
140.4
108.3
83.0
62.7
31.8
0.0

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