

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: P947237

Luminaire Tested: **GALN-SB2C-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7719 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

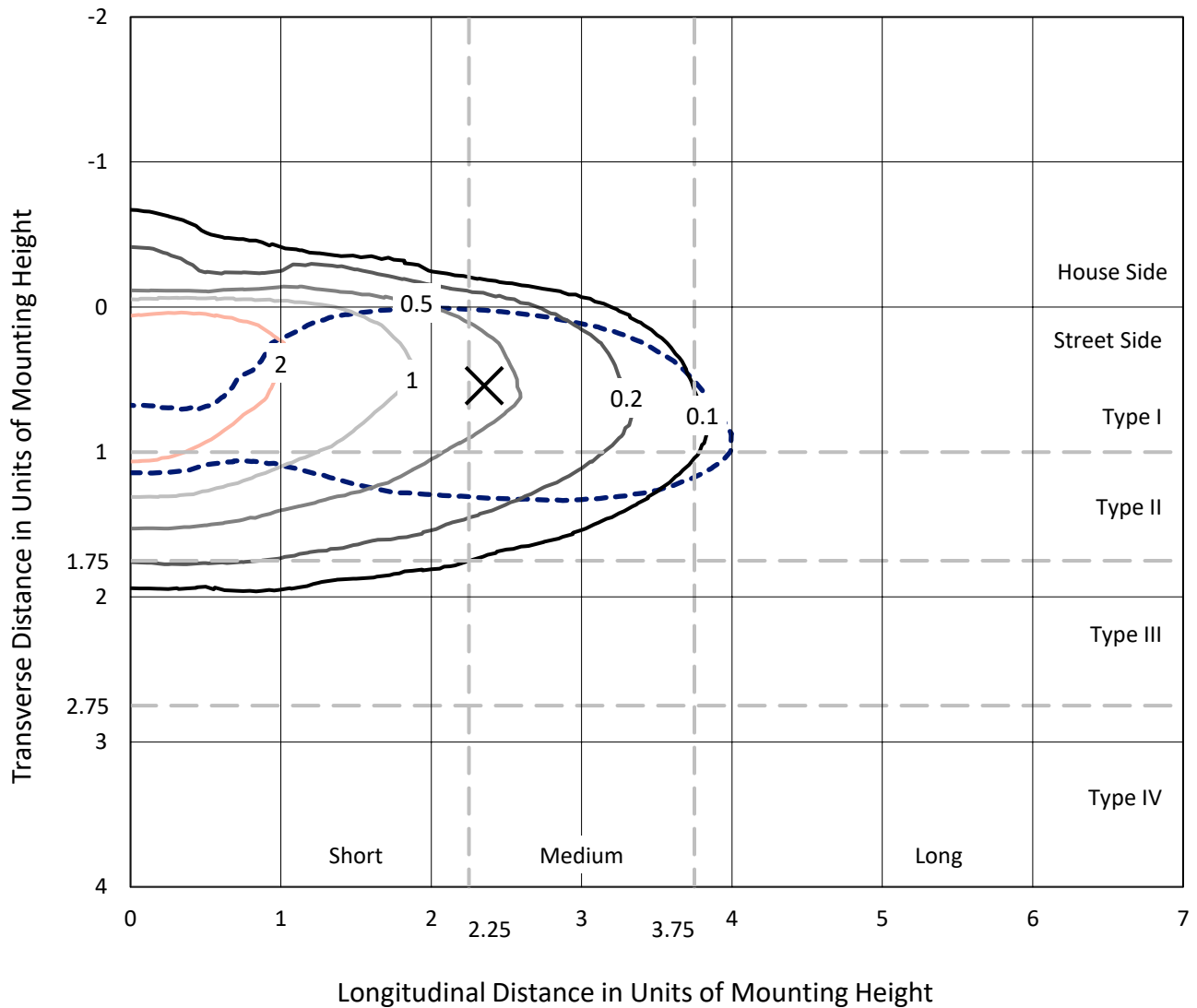
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

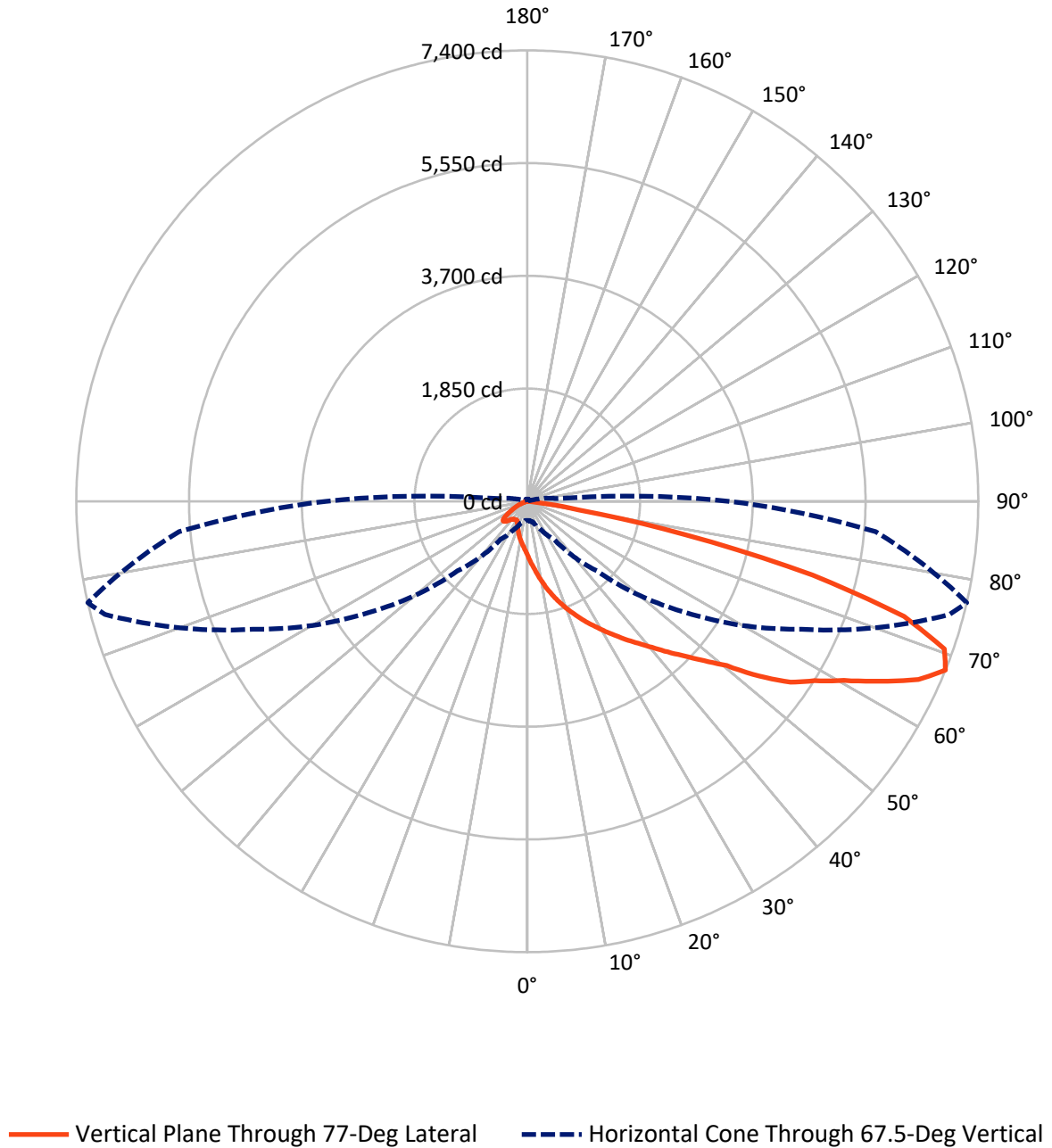
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	567.9	0.0	567.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	7151.1	0.0	7151.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	7719.0	0.0	7719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	1.2
10°-20°	318.1	4.1
20°-30°	613.9	8.0
30°-40°	1065.8	13.8
40°-50°	1547.5	20.0
50°-60°	1777.1	23.0
60°-70°	1542.9	20.0
70°-80°	726.7	9.4
80°-90°	35.9	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°	7719.0	100.0
0°-180°	7719.0	100.0

Coefficient of Utilization



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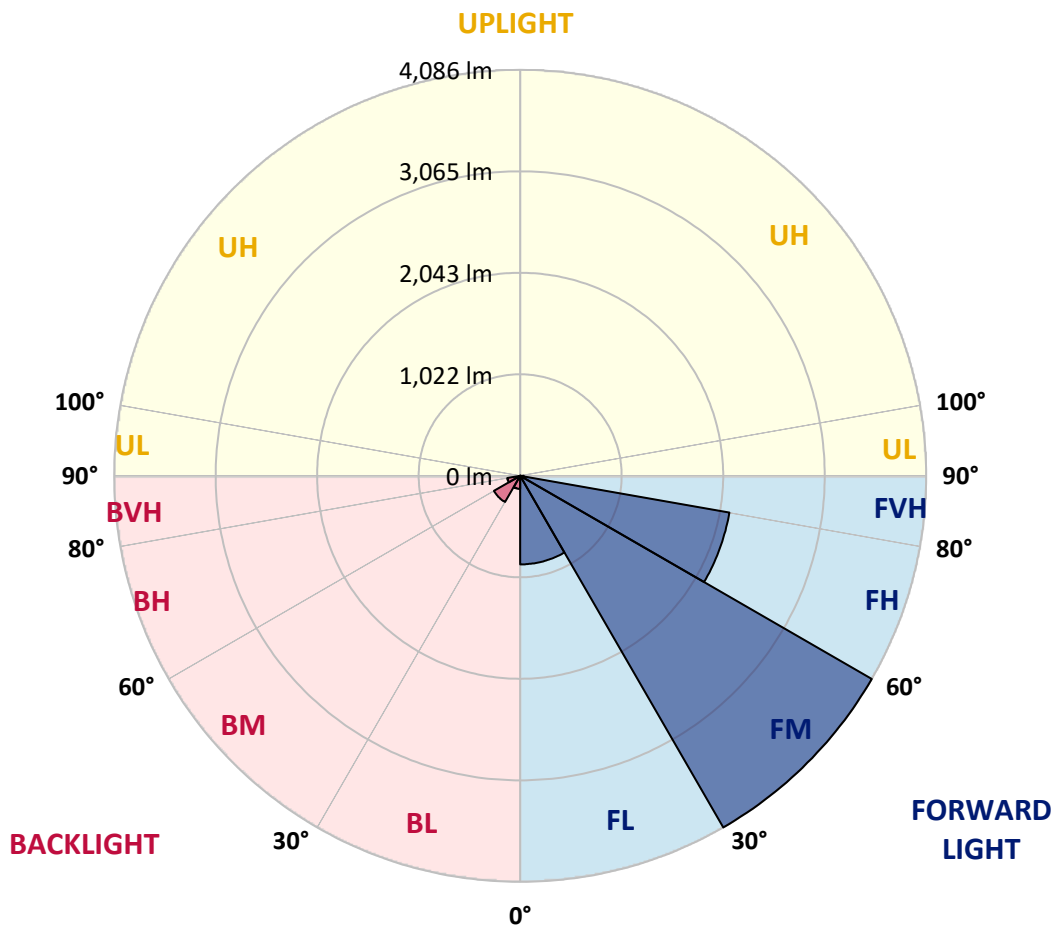
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	891.5	11.5			
FM (30°-60°)	4086.2	52.9			
FH (60°-80°)	2138.1	27.7			G2/5000
FVH (80°-90°)	35.3	0.5			G1/100
BL (0°-30°)	131.5	1.7	B1/500		
BM (30°-60°)	304.3	3.9	B1/1000		
BH (60°-80°)	131.5	1.7	B1/500		G1/500
BVH (80°-90°)	0.7	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	890.1	890.1	890.1	890.1	890.1	890.1	890.1	890.1	890.1	890.1
2.5°	1232.4	1240.0	1229.0	1207.9	1176.3	1155.7	1105.3	1057.9	1005.2	988.4
5°	1502.2	1508.9	1496.5	1473.5	1431.3	1391.0	1324.9	1225.6	1122.6	1089.5
7.5°	1702.1	1705.9	1701.1	1680.0	1639.8	1594.2	1520.4	1403.0	1250.1	1213.7
10°	1845.9	1858.4	1856.9	1848.8	1821.9	1785.0	1706.4	1572.7	1392.9	1346.0
12.5°	1941.3	1955.2	1963.3	1981.5	1980.1	1956.6	1887.6	1746.2	1535.3	1480.2
15°	1969.1	1983.9	2015.1	2057.3	2094.7	2106.7	2058.2	1916.4	1692.0	1621.6
17.5°	1953.3	1976.3	2013.7	2080.3	2162.3	2216.4	2211.1	2080.8	1834.4	1753.9
20°	1988.3	2010.3	2039.5	2095.6	2191.0	2289.3	2328.6	2238.0	1975.8	1891.4
22.5°	2181.9	2178.1	2180.9	2190.1	2247.1	2344.4	2425.4	2380.8	2115.8	2029.5
25°	2488.7	2471.4	2442.2	2392.8	2378.4	2425.4	2509.8	2507.4	2263.4	2170.9
27.5°	2840.5	2837.6	2769.1	2650.2	2583.1	2564.9	2605.2	2630.6	2409.6	2310.8
30°	3177.5	3185.1	3092.6	2960.3	2837.1	2765.7	2729.3	2747.5	2558.2	2461.8
32.5°	3470.8	3479.0	3378.3	3223.5	3071.1	2984.8	2908.1	2863.0	2720.2	2615.2
35°	3718.6	3726.8	3611.3	3440.1	3277.7	3199.5	3112.8	2989.6	2883.2	2785.4
37.5°	3940.1	3937.7	3782.9	3610.3	3450.7	3388.9	3343.3	3145.4	3050.9	2956.5
40°	4070.9	4081.0	3948.7	3758.4	3603.6	3558.5	3555.7	3338.5	3244.6	3153.0
42.5°	4109.3	4127.0	4031.2	3874.9	3734.5	3685.6	3760.8	3547.5	3469.9	3380.7
45°	4040.3	4057.5	4013.9	3905.6	3823.6	3792.0	3937.2	3764.2	3710.5	3622.3
47.5°	3838.9	3860.5	3871.1	3848.1	3847.1	3879.2	4095.4	3992.3	3996.2	3906.1
50°	3449.3	3485.7	3582.5	3664.0	3790.1	3948.2	4249.3	4239.7	4318.3	4240.6
52.5°	2740.8	2792.6	3126.2	3349.1	3632.4	3935.3	4418.5	4636.6	4883.4	4769.8
55°	2202.5	2202.5	2473.8	2890.8	3324.6	3850.0	4492.3	4894.4	5268.3	5241.5
57.5°	1795.6	1817.1	1990.2	2358.8	2879.3	3646.7	4537.8	5056.4	5578.4	5558.8
60°	1108.2	1154.7	1481.6	1845.4	2372.7	3284.8	4509.0	5220.4	5954.7	5970.5
62.5°	624.1	641.3	787.1	1327.7	1844.9	2798.3	4289.0	5311.9	6436.0	6503.1
65°	430.9	439.5	495.6	826.4	1278.9	2227.9	3859.1	5254.9	6918.2	7053.8
67.5°	313.0	317.3	352.3	504.7	758.8	1615.3	3185.1	4967.3	7173.6	7400.4
70°	240.6	243.5	268.9	331.7	448.2	997.0	2313.2	4395.4	6988.6	7259.4
72.5°	195.6	198.4	218.1	245.4	297.2	589.6	1402.0	3569.6	6171.8	6464.2
75°	164.9	168.7	186.5	204.2	233.0	378.7	657.6	2485.8	4641.3	4833.1
77.5°	91.6	84.4	151.5	169.2	196.5	239.7	307.7	1462.9	2599.4	2652.6
80°	57.0	59.0	120.3	136.1	151.0	120.8	140.9	563.2	901.1	856.1
82.5°	3.4	7.7	92.5	98.3	103.5	51.8	53.2	191.3	217.1	199.4
85°	0.0	0.0	42.2	34.0	35.9	14.9	15.3	44.6	29.2	31.6
87.5°	0.0	0.0	0.0	1.0	0.0	1.4	2.9	3.8	1.4	1.9
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°
890.1	0°	890.1	890.1	890.1	890.1	890.1	890.1	890.1	890.1	890.1	890.1
935.7	2.5°	902.1	868.5	800.5	733.9	679.7	629.4	593.4	559.4	542.1	541.2
996.0	5°	929.4	859.0	722.8	602.5	505.7	428.0	377.7	341.8	323.5	317.3
1070.3	7.5°	967.8	861.8	654.8	487.5	373.4	306.8	278.0	266.5	262.7	258.4
1154.2	10°	1016.2	868.5	593.9	392.6	294.3	260.8	249.3	244.5	241.6	238.7
1248.7	12.5°	1070.3	874.8	533.5	325.9	258.8	241.6	233.4	227.7	223.8	220.5
1345.5	15°	1123.1	878.6	470.7	279.4	240.6	226.7	218.1	211.9	206.6	202.8
1440.4	17.5°	1175.3	883.9	411.7	251.6	225.8	211.9	203.2	195.6	191.3	186.9
1540.1	20°	1233.3	882.9	356.1	232.0	210.9	197.0	187.9	180.7	176.4	171.6
1645.5	22.5°	1287.0	878.1	307.2	215.2	195.6	182.1	172.1	164.9	160.6	156.7
1753.4	25°	1348.8	874.3	266.5	199.9	181.2	167.8	156.7	150.0	145.2	141.9
1861.7	27.5°	1408.3	868.5	236.8	186.0	167.3	154.3	143.8	136.1	131.8	129.4
1973.4	30°	1466.7	867.1	225.8	172.6	154.8	141.9	131.3	124.1	120.8	119.8
2096.1	32.5°	1537.2	870.9	230.6	167.8	143.3	130.4	120.3	115.0	111.7	111.7
2232.7	35°	1612.5	870.0	237.7	172.1	135.7	118.9	111.2	107.8	104.5	104.5
2384.2	37.5°	1706.9	871.4	243.5	179.3	132.8	109.3	105.0	100.7	98.7	98.7
2550.0	40°	1847.8	918.9	240.6	185.5	131.8	102.6	93.9	92.5	91.1	91.1
2737.4	42.5°	2020.4	1021.9	244.5	186.0	131.3	97.8	86.3	89.2	85.8	85.3
2948.8	45°	2209.2	1134.6	268.9	175.9	130.9	95.4	82.4	85.8	80.5	80.5
3193.8	47.5°	2396.6	1246.3	293.8	161.5	129.4	94.9	79.1	77.2	75.7	76.2
3513.0	50°	2655.0	1337.3	303.4	141.9	126.1	93.9	72.9	73.3	72.4	73.3
3963.1	52.5°	2936.4	1356.5	291.9	119.8	116.5	91.1	68.5	70.5	70.0	70.9
4279.9	55°	3111.8	1335.9	241.1	99.7	101.6	79.6	64.2	68.1	68.1	68.1
4589.6	57.5°	3293.0	1248.2	171.1	81.0	84.4	65.2	60.4	65.7	65.2	64.7
4962.5	60°	3423.4	1106.3	112.6	66.6	67.1	53.7	56.1	61.8	61.4	59.0
5346.9	62.5°	3520.7	949.6	72.4	56.6	51.3	48.4	51.3	56.1	54.2	48.9
5672.9	65°	3509.6	732.4	55.6	48.4	42.2	42.2	44.6	48.9	43.1	34.5
5735.2	67.5°	3305.0	495.6	46.0	40.7	35.5	35.0	36.9	40.7	36.9	29.2
5415.9	70°	2939.2	324.0	36.9	31.6	28.3	25.9	29.7	35.0	31.2	23.5
4610.7	72.5°	2385.6	197.5	27.8	23.0	20.6	16.8	23.5	28.8	24.9	17.3
3206.2	75°	1543.4	100.7	19.2	14.9	11.0	10.1	17.3	21.6	17.3	10.5
1422.6	77.5°	590.5	42.2	10.5	6.7	5.8	4.8	9.6	12.9	7.2	2.4
275.6	80°	113.6	17.7	5.3	3.4	2.9	1.9	1.4	1.0	0.0	0.0
48.9	82.5°	19.7	5.8	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
9.6	85°	6.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.4	87.5°	2.4	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>
890.1
540.2
316.4
257.4
237.7
219.5
202.3
186.5
171.1
156.3
141.4
129.4
119.4
111.7
104.5
98.7
91.1
84.8
80.5
76.2
73.3
70.9
68.1
64.7
59.0
47.9
33.6
28.3
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