

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: P946418

Luminaire Tested: **GALN-SB2A-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946418
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-SB2A-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA 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: 6605 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

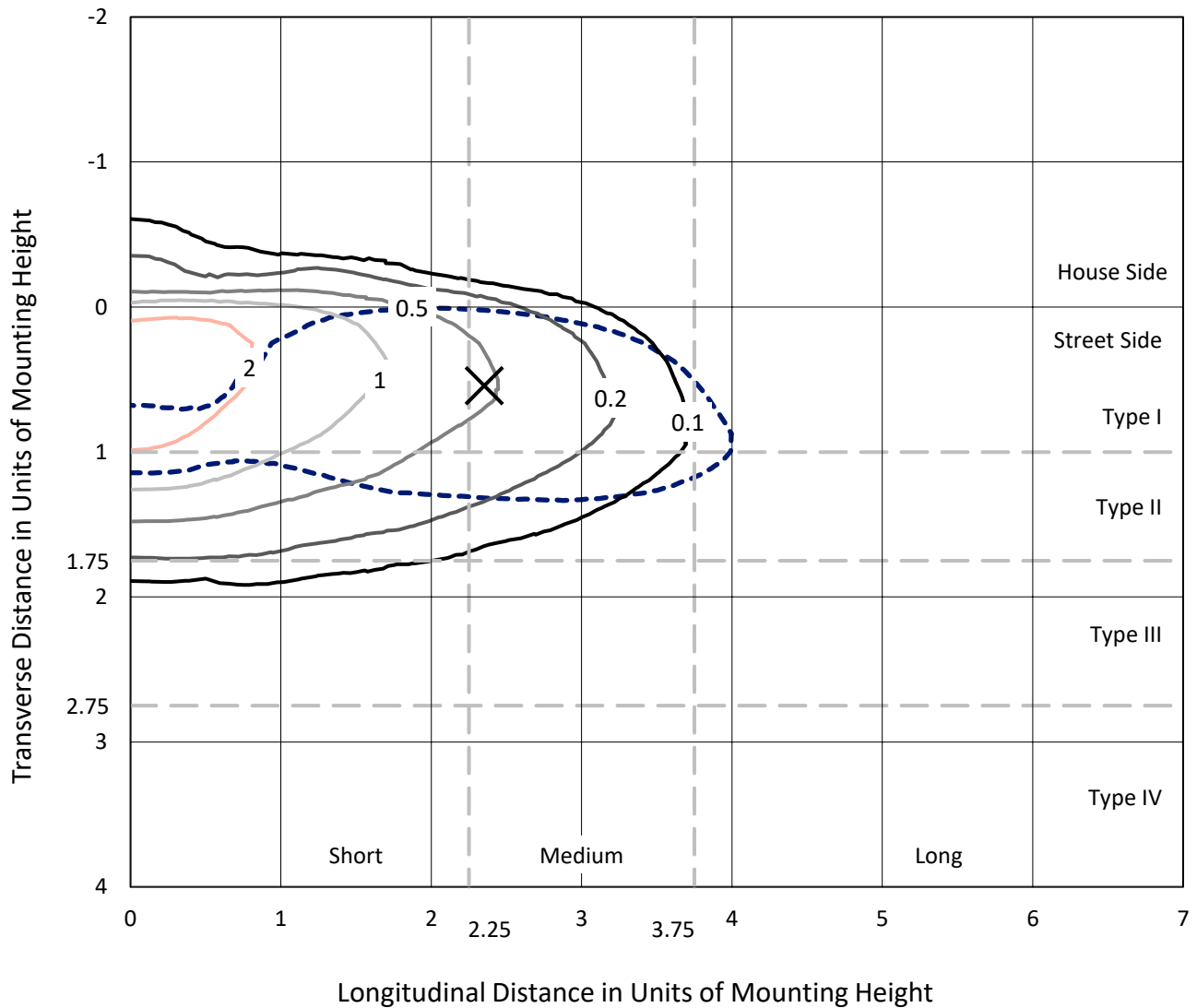
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946418
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Iso-Footcandle Lines of Horizontal Illumination

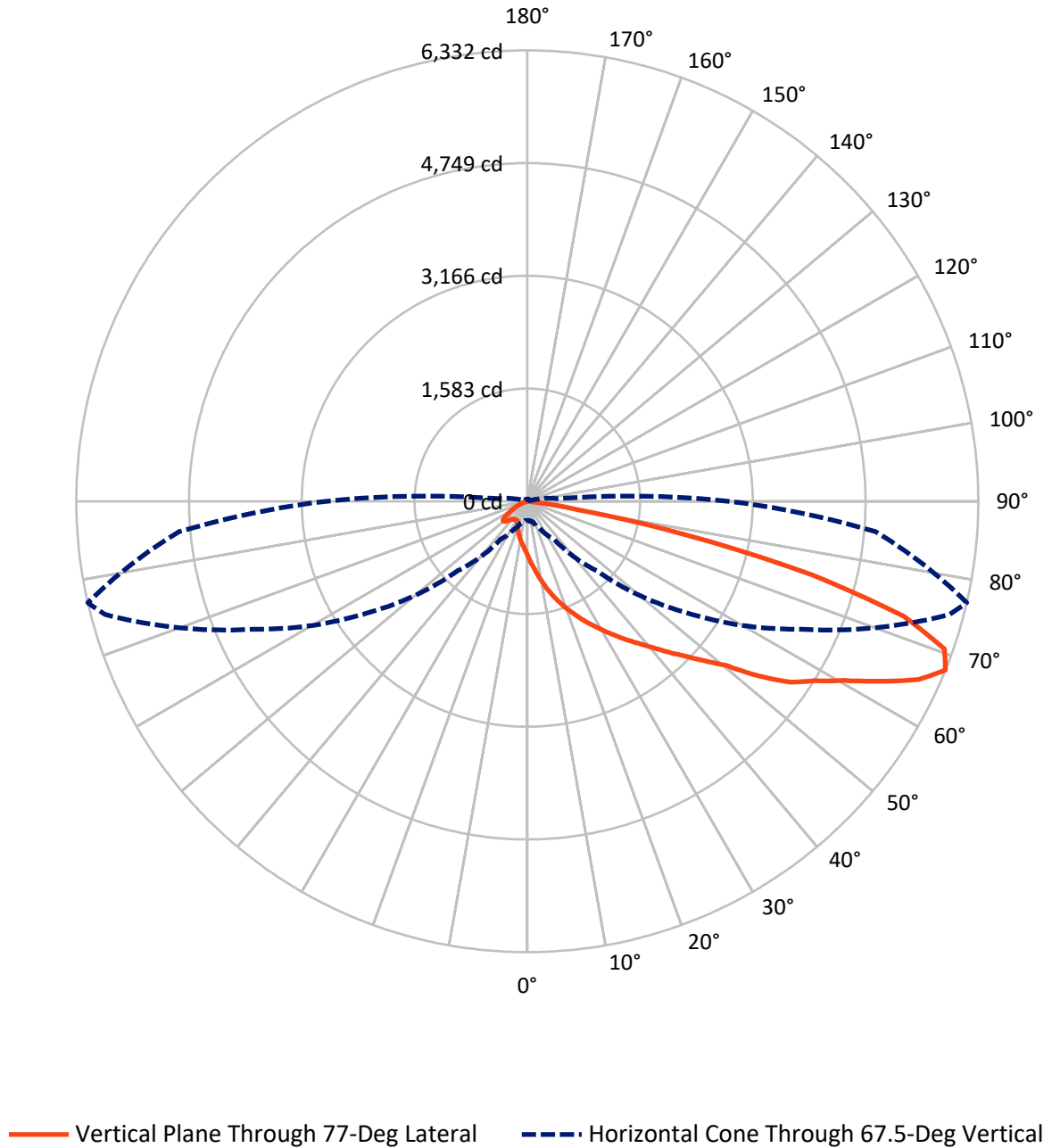
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P946418
CATALOG NUMBER: GALN-SB2A-827-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	485.9	0.0	485.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	6119.1	0.0	6119.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	6605.0	0.0	6605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	1.2
10°-20°	272.2	4.1
20°-30°	525.3	8.0
30°-40°	912.0	13.8
40°-50°	1324.2	20.0
50°-60°	1520.7	23.0
60°-70°	1320.2	20.0
70°-80°	621.8	9.4
80°-90°	30.8	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°	6605.0	100.0
0°-180°	6605.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946418

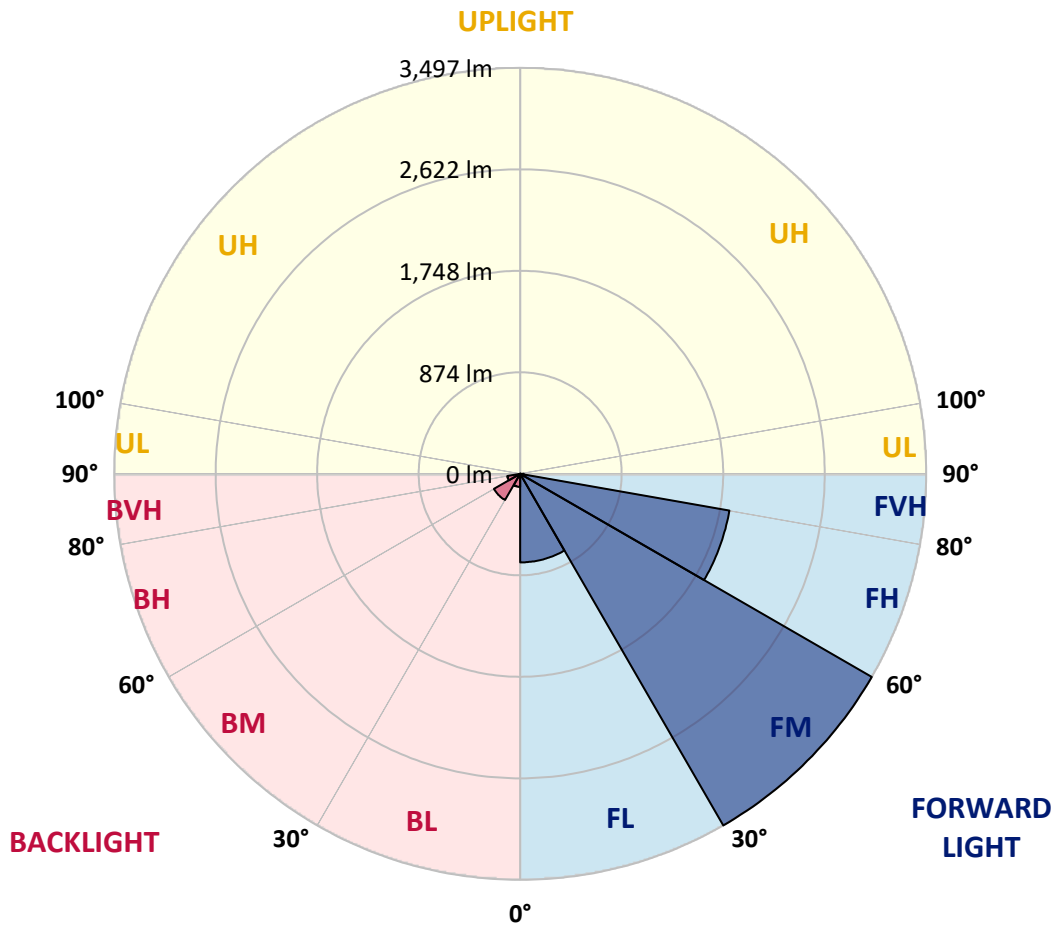
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.8	11.5			
FM (30°-60°)	3496.5	52.9			
FH (60°-80°)	1829.6	27.7			G2/5000
FVH (80°-90°)	30.2	0.5			G1/100
BL (0°-30°)	112.5	1.7	B1/500		
BM (30°-60°)	260.4	3.9	B1/1000		
BH (60°-80°)	112.5	1.7	B1/500		G1/500
BVH (80°-90°)	0.6	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



REPORT NUMBER: P946418
 CATALOG NUMBER: GALN-SB2A-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	761.7	761.7	761.7	761.7	761.7	761.7	761.7	761.7	761.7	761.7
2.5°	1054.5	1061.1	1051.6	1033.6	1006.5	988.9	945.8	905.2	860.1	845.7
5°	1285.4	1291.2	1280.5	1260.8	1224.7	1190.3	1133.7	1048.8	960.6	932.3
7.5°	1456.5	1459.7	1455.6	1437.6	1403.1	1364.2	1301.0	1200.5	1069.7	1038.5
10°	1579.5	1590.2	1588.9	1582.0	1559.0	1527.4	1460.1	1345.7	1191.9	1151.7
12.5°	1661.1	1673.0	1680.0	1695.6	1694.3	1674.2	1615.2	1494.2	1313.7	1266.6
15°	1684.9	1697.6	1724.3	1760.4	1792.4	1802.6	1761.2	1639.8	1447.8	1387.5
17.5°	1671.4	1691.1	1723.1	1780.1	1850.2	1896.5	1892.0	1780.5	1569.7	1500.7
20°	1701.3	1720.2	1745.2	1793.2	1874.8	1958.9	1992.5	1915.0	1690.6	1618.5
22.5°	1867.0	1863.7	1866.2	1874.0	1922.8	2006.1	2075.4	2037.2	1810.4	1736.6
25°	2129.5	2114.7	2089.7	2047.5	2035.2	2075.4	2147.6	2145.5	1936.7	1857.6
27.5°	2430.6	2428.1	2369.5	2267.7	2210.3	2194.7	2229.2	2250.9	2061.8	1977.3
30°	2718.9	2725.5	2646.3	2533.1	2427.7	2366.6	2335.4	2351.0	2189.0	2106.5
32.5°	2969.9	2976.9	2890.8	2758.3	2627.8	2554.0	2488.4	2449.8	2327.6	2237.8
35°	3182.0	3188.9	3090.1	2943.7	2804.6	2737.8	2663.5	2558.1	2467.1	2383.4
37.5°	3371.5	3369.4	3236.9	3089.3	2952.7	2899.8	2860.8	2691.4	2610.6	2529.8
40°	3483.4	3492.0	3378.8	3216.0	3083.5	3045.0	3042.5	2856.7	2776.3	2698.0
42.5°	3516.2	3531.4	3449.4	3315.7	3195.5	3153.7	3218.1	3035.5	2969.1	2892.8
45°	3457.2	3471.9	3434.6	3341.9	3271.8	3244.7	3369.0	3220.9	3175.0	3099.5
47.5°	3284.9	3303.4	3312.4	3292.7	3291.9	3319.4	3504.3	3416.2	3419.4	3342.3
50°	2951.5	2982.6	3065.5	3135.2	3243.1	3378.4	3636.0	3627.8	3695.1	3628.6
52.5°	2345.3	2389.5	2675.0	2865.7	3108.1	3367.4	3780.8	3967.4	4178.6	4081.4
55°	1884.7	1884.7	2116.8	2473.6	2844.8	3294.3	3844.0	4188.1	4508.0	4485.0
57.5°	1536.4	1554.9	1703.0	2018.4	2463.8	3120.4	3882.9	4326.7	4773.4	4756.5
60°	948.3	988.1	1267.8	1579.1	2030.3	2810.8	3858.3	4467.0	5095.3	5108.9
62.5°	534.0	548.8	673.5	1136.1	1578.7	2394.5	3670.0	4545.3	5507.1	5564.5
65°	368.7	376.1	424.1	707.1	1094.3	1906.4	3302.1	4496.5	5919.7	6035.8
67.5°	267.8	271.5	301.5	431.9	649.3	1382.2	2725.5	4250.4	6138.3	6332.3
70°	205.9	208.4	230.1	283.8	383.5	853.1	1979.4	3761.1	5980.0	6211.8
72.5°	167.3	169.8	186.6	210.0	254.3	504.5	1199.7	3054.4	5281.1	5531.3
75°	141.1	144.4	159.5	174.7	199.3	324.0	562.7	2127.1	3971.5	4135.6
77.5°	78.3	72.2	129.6	144.8	168.2	205.1	263.3	1251.8	2224.3	2269.8
80°	48.8	50.4	102.9	116.5	129.2	103.4	120.6	481.9	771.1	732.5
82.5°	2.9	6.6	79.2	84.1	88.6	44.3	45.5	163.7	185.8	170.6
85°	0.0	0.0	36.1	29.1	30.8	12.7	13.1	38.1	25.0	27.1
87.5°	0.0	0.0	0.0	0.8	0.0	1.2	2.5	3.3	1.2	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946418
 CATALOG NUMBER: GALN-SB2A-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
761.7	0°	761.7	761.7	761.7	761.7	761.7	761.7	761.7	761.7	761.7	761.7
800.6	2.5°	771.9	743.2	685.0	627.9	581.6	538.5	507.8	478.6	463.9	463.1
852.3	5°	795.3	735.0	618.5	515.6	432.7	366.3	323.2	292.4	276.9	271.5
915.9	7.5°	828.1	737.5	560.3	417.1	319.5	262.5	237.9	228.0	224.8	221.1
987.6	10°	869.5	743.2	508.2	335.9	251.8	223.1	213.3	209.2	206.7	204.3
1068.4	12.5°	915.9	748.5	456.5	278.9	221.5	206.7	199.7	194.8	191.5	188.7
1151.3	15°	961.0	751.8	402.8	239.1	205.9	194.0	186.6	181.3	176.8	173.5
1232.5	17.5°	1005.7	756.3	352.3	215.3	193.2	181.3	173.9	167.3	163.7	160.0
1317.8	20°	1055.3	755.5	304.7	198.5	180.5	168.6	160.8	154.6	150.9	146.8
1408.1	22.5°	1101.3	751.4	262.9	184.2	167.3	155.9	147.2	141.1	137.4	134.1
1500.3	25°	1154.2	748.1	228.0	171.0	155.0	143.6	134.1	128.4	124.3	121.4
1593.0	27.5°	1205.0	743.2	202.6	159.1	143.1	132.1	123.0	116.5	112.8	110.7
1688.6	30°	1255.1	742.0	193.2	147.7	132.5	121.4	112.4	106.2	103.4	102.5
1793.6	32.5°	1315.4	745.2	197.3	143.6	122.6	111.6	102.9	98.4	95.6	95.6
1910.5	35°	1379.8	744.4	203.4	147.2	116.1	101.7	95.2	92.3	89.4	89.4
2040.1	37.5°	1460.6	745.7	208.4	153.4	113.6	93.5	89.8	86.1	84.5	84.5
2182.0	40°	1581.1	786.3	205.9	158.7	112.8	87.8	80.4	79.2	77.9	77.9
2342.4	42.5°	1728.8	874.4	209.2	159.1	112.4	83.7	73.8	76.3	73.4	73.0
2523.3	45°	1890.4	970.8	230.1	150.5	112.0	81.6	70.5	73.4	68.9	68.9
2732.8	47.5°	2050.8	1066.4	251.4	138.2	110.7	81.2	67.7	66.0	64.8	65.2
3006.0	50°	2271.8	1144.3	259.6	121.4	107.9	80.4	62.3	62.8	61.9	62.8
3391.1	52.5°	2512.6	1160.7	249.8	102.5	99.7	77.9	58.7	60.3	59.9	60.7
3662.3	55°	2662.7	1143.1	206.3	85.3	87.0	68.1	55.0	58.2	58.2	58.2
3927.2	57.5°	2817.7	1068.0	146.4	69.3	72.2	55.8	51.7	56.2	55.8	55.4
4246.3	60°	2929.3	946.6	96.4	57.0	57.4	45.9	48.0	52.9	52.5	50.4
4575.3	62.5°	3012.6	812.5	61.9	48.4	43.9	41.4	43.9	48.0	46.3	41.8
4854.2	65°	3003.1	626.7	47.6	41.4	36.1	36.1	38.1	41.8	36.9	29.5
4907.5	67.5°	2828.0	424.1	39.4	34.9	30.4	29.9	31.6	34.9	31.6	25.0
4634.3	70°	2515.1	277.3	31.6	27.1	24.2	22.1	25.4	29.9	26.7	20.1
3945.3	72.5°	2041.3	169.0	23.8	19.7	17.6	14.4	20.1	24.6	21.3	14.8
2743.5	75°	1320.7	86.1	16.4	12.7	9.4	8.6	14.8	18.5	14.8	9.0
1217.3	77.5°	505.3	36.1	9.0	5.7	4.9	4.1	8.2	11.1	6.2	2.1
235.8	80°	97.2	15.2	4.5	2.9	2.5	1.6	1.2	0.8	0.0	0.0
41.8	82.5°	16.8	4.9	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
8.2	85°	5.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.9	87.5°	2.1	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>
761.7
462.2
270.7
220.3
203.4
187.8
173.1
159.5
146.4
133.7
121.0
110.7
102.1
95.6
89.4
84.5
77.9
72.6
68.9
65.2
62.8
60.7
58.2
55.4
50.4
41.0
28.7
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