

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: P946775

Luminaire Tested: **GALN-SB2B-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946775
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-SB2B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA 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: 8291 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

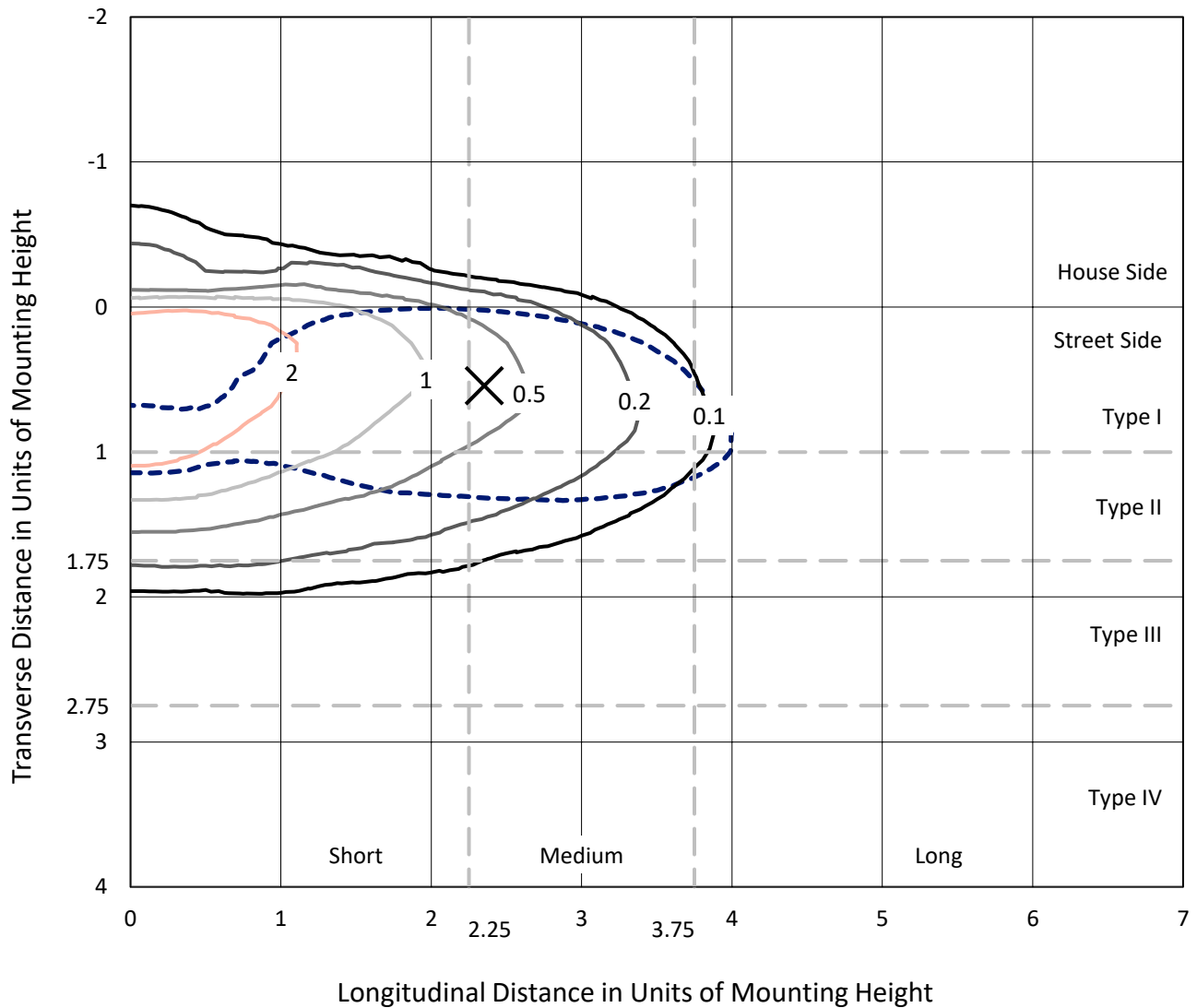
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

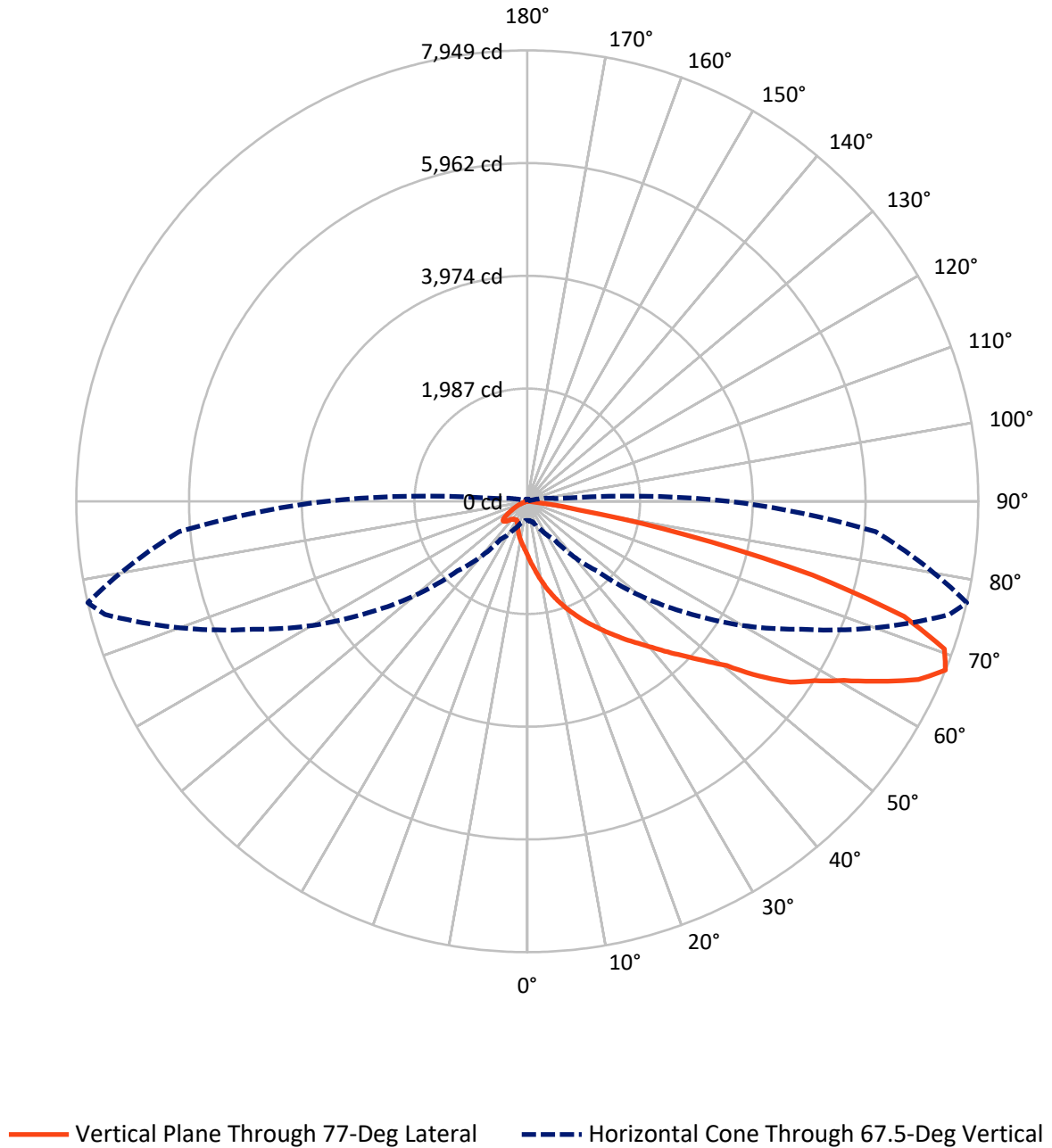
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	610.0	0.0	610.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	7681.0	0.0	7681.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	8291.0	0.0	8291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	1.2
10°-20°	341.7	4.1
20°-30°	659.4	8.0
30°-40°	1144.8	13.8
40°-50°	1662.2	20.0
50°-60°	1908.8	23.0
60°-70°	1657.2	20.0
70°-80°	780.6	9.4
80°-90°	38.6	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°	8291.0	100.0
0°-180°	8291.0	100.0

Coefficient of Utilization



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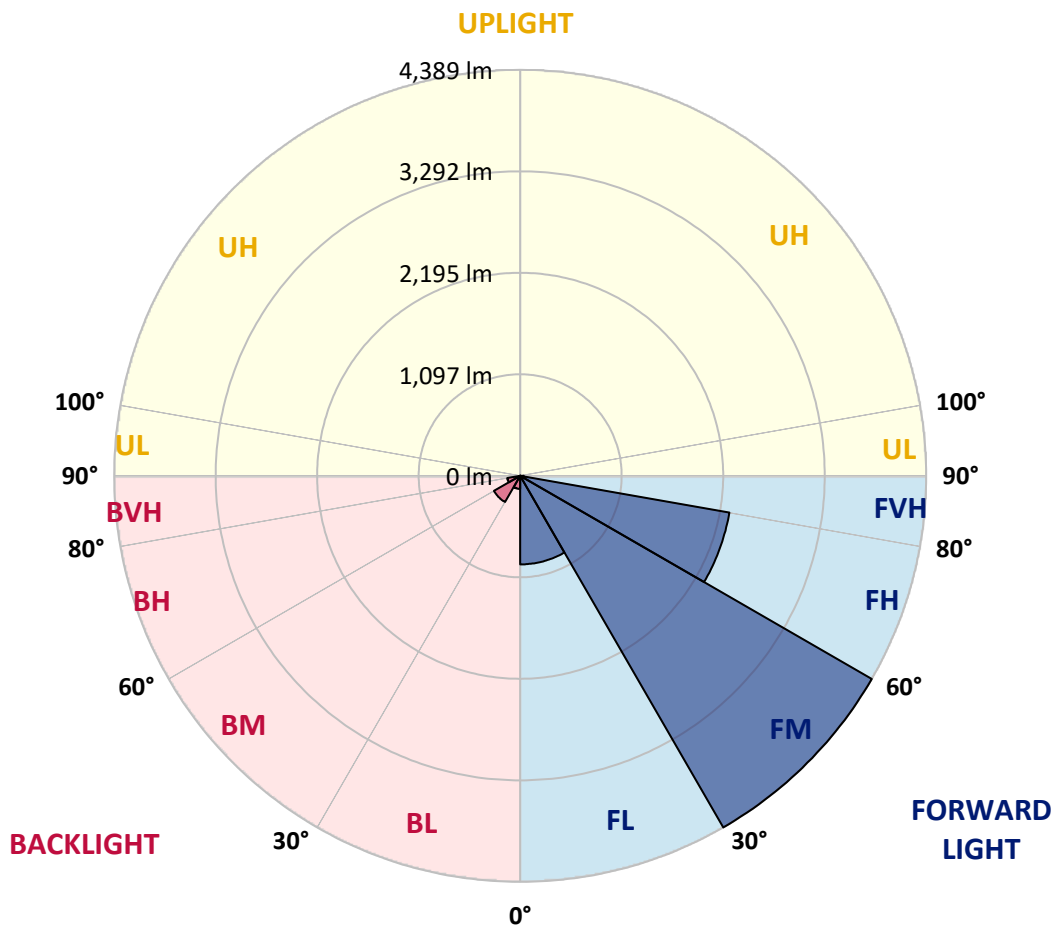
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.5	11.5			
FM (30°-60°)	4389.0	52.9			
FH (60°-80°)	2296.6	27.7			G2/5000
FVH (80°-90°)	37.9	0.5			G1/100
BL (0°-30°)	141.2	1.7	B1/500		
BM (30°-60°)	326.8	3.9	B1/1000		
BH (60°-80°)	141.2	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°	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1
2.5°	1323.7	1331.9	1320.1	1297.4	1263.4	1241.3	1187.2	1136.3	1079.6	1061.6
5°	1613.5	1620.7	1607.4	1582.6	1537.3	1494.1	1423.0	1316.5	1205.8	1170.3
7.5°	1828.2	1832.3	1827.2	1804.5	1761.3	1712.4	1633.1	1507.0	1342.7	1303.6
10°	1982.7	1996.1	1994.5	1985.8	1956.9	1917.3	1832.9	1689.2	1496.2	1445.7
12.5°	2085.1	2100.1	2108.8	2128.4	2126.8	2101.6	2027.5	1875.6	1649.1	1589.9
15°	2115.0	2131.0	2164.4	2209.7	2249.9	2262.8	2210.8	2058.4	1817.4	1741.7
17.5°	2098.0	2122.7	2162.9	2234.4	2322.5	2380.7	2375.0	2235.0	1970.3	1883.8
20°	2135.6	2159.3	2190.7	2250.9	2353.4	2458.9	2501.1	2403.8	2122.2	2031.6
22.5°	2343.6	2339.5	2342.6	2352.3	2413.6	2518.1	2605.1	2557.3	2272.5	2179.9
25°	2673.1	2654.6	2623.2	2570.1	2554.7	2605.1	2695.7	2693.2	2431.1	2331.8
27.5°	3051.0	3047.9	2974.3	2846.6	2774.5	2755.0	2798.2	2825.5	2588.1	2482.1
30°	3412.9	3421.2	3321.8	3179.7	3047.4	2970.7	2931.5	2951.1	2747.7	2644.3
32.5°	3728.0	3736.8	3628.7	3462.4	3298.6	3206.0	3123.6	3075.2	2921.8	2809.0
35°	3994.2	4002.9	3878.9	3695.1	3520.5	3436.6	3343.4	3211.1	3096.8	2991.8
37.5°	4232.1	4229.5	4063.2	3877.8	3706.4	3640.0	3591.1	3378.4	3277.0	3175.6
40°	4372.6	4383.4	4241.3	4036.9	3870.6	3822.2	3819.1	3585.9	3485.0	3386.7
42.5°	4413.8	4432.8	4329.9	4162.0	4011.2	3958.7	4039.5	3810.4	3727.0	3631.2
45°	4339.7	4358.2	4311.3	4195.0	4106.9	4073.0	4229.0	4043.1	3985.4	3890.7
47.5°	4123.4	4146.6	4157.9	4133.2	4132.2	4166.7	4398.9	4288.2	4292.3	4195.5
50°	3704.9	3744.0	3848.0	3935.5	4070.9	4240.8	4564.1	4553.8	4638.3	4554.9
52.5°	2943.9	2999.5	3357.8	3597.2	3901.5	4226.9	4745.9	4980.1	5245.3	5123.3
55°	2365.7	2365.7	2657.1	3105.1	3571.0	4135.3	4825.2	5257.1	5658.7	5629.9
57.5°	1928.6	1951.8	2137.7	2533.6	3092.7	3917.0	4874.1	5431.1	5991.8	5970.7
60°	1190.3	1240.3	1591.4	1982.2	2548.5	3528.3	4843.2	5607.2	6396.0	6413.0
62.5°	670.3	688.9	845.4	1426.1	1981.7	3005.7	4606.9	5705.6	6912.9	6985.0
65°	462.8	472.1	532.4	887.6	1373.6	2393.0	4145.0	5644.3	7430.8	7576.5
67.5°	336.2	340.8	378.4	542.1	815.0	1735.0	3421.2	5335.4	7705.2	7948.8
70°	258.5	261.5	288.8	356.3	481.4	1070.9	2484.7	4721.2	7506.5	7797.4
72.5°	210.1	213.1	234.3	263.6	319.2	633.3	1505.9	3834.1	6629.2	6943.3
75°	177.1	181.2	200.3	219.3	250.2	406.7	706.4	2670.0	4985.3	5191.2
77.5°	98.3	90.6	162.7	181.7	211.1	257.4	330.5	1571.3	2792.0	2849.2
80°	61.3	63.3	129.2	146.2	162.2	129.7	151.4	604.9	967.9	919.5
82.5°	3.6	8.2	99.4	105.5	111.2	55.6	57.1	205.4	233.2	214.2
85°	0.0	0.0	45.3	36.6	38.6	16.0	16.5	47.9	31.4	34.0
87.5°	0.0	0.0	0.0	1.0	0.0	1.5	3.1	4.1	1.5	2.1
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°
956.1	0°	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1
1005.0	2.5°	968.9	932.9	859.8	788.2	730.1	676.0	637.4	600.8	582.3	581.3
1069.9	5°	998.3	922.6	776.4	647.2	543.2	459.8	405.7	367.1	347.5	340.8
1149.7	7.5°	1039.5	925.7	703.3	523.6	401.1	329.5	298.6	286.3	282.1	277.5
1239.8	10°	1091.5	932.9	637.9	421.7	316.1	280.1	267.7	262.6	259.5	256.4
1341.2	12.5°	1149.7	939.6	573.0	350.1	278.0	259.5	250.7	244.6	240.4	236.8
1445.2	15°	1206.3	943.7	505.6	300.2	258.5	243.5	234.3	227.6	221.9	217.8
1547.1	17.5°	1262.4	949.4	442.3	270.3	242.5	227.6	218.3	210.1	205.4	200.8
1654.2	20°	1324.7	948.4	382.5	249.2	226.5	211.6	201.8	194.1	189.5	184.3
1767.5	22.5°	1382.4	943.2	330.0	231.2	210.1	195.6	184.8	177.1	172.5	168.4
1883.3	25°	1448.8	939.1	286.3	214.7	194.6	180.2	168.4	161.1	156.0	152.4
1999.7	27.5°	1512.6	932.9	254.3	199.8	179.7	165.8	154.5	146.2	141.6	139.0
2119.6	30°	1575.4	931.4	242.5	185.3	166.3	152.4	141.1	133.3	129.7	128.7
2251.4	32.5°	1651.1	935.5	247.6	180.2	153.9	140.0	129.2	123.6	120.0	120.0
2398.2	35°	1732.0	934.5	255.4	184.8	145.7	127.7	119.4	115.8	112.2	112.2
2560.9	37.5°	1833.4	936.0	261.5	192.6	142.6	117.4	112.8	108.1	106.1	106.1
2739.0	40°	1984.7	987.0	258.5	199.2	141.6	110.2	100.9	99.4	97.8	97.8
2940.3	42.5°	2170.1	1097.7	262.6	199.8	141.1	105.0	92.7	95.8	92.2	91.6
3167.3	45°	2372.9	1218.6	288.8	188.9	140.6	102.5	88.6	92.2	86.5	86.5
3430.4	47.5°	2574.2	1338.6	315.6	173.5	139.0	101.9	85.0	82.9	81.3	81.9
3773.3	50°	2851.7	1436.4	325.9	152.4	135.4	100.9	78.3	78.8	77.7	78.8
4256.8	52.5°	3154.0	1457.0	313.5	128.7	125.1	97.8	73.6	75.7	75.2	76.2
4597.1	55°	3342.4	1434.9	259.0	107.1	109.1	85.5	69.0	73.1	73.1	73.1
4929.7	57.5°	3537.0	1340.7	183.8	87.0	90.6	70.0	64.9	70.5	70.0	69.5
5330.2	60°	3677.0	1188.3	121.0	71.6	72.1	57.7	60.2	66.4	65.9	63.3
5743.1	62.5°	3781.6	1019.9	77.7	60.8	55.1	52.0	55.1	60.2	58.2	52.5
6093.2	65°	3769.7	786.7	59.7	52.0	45.3	45.3	47.9	52.5	46.3	37.1
6160.2	67.5°	3549.9	532.4	49.4	43.8	38.1	37.6	39.6	43.8	39.6	31.4
5817.3	70°	3157.1	348.0	39.6	34.0	30.4	27.8	31.9	37.6	33.5	25.2
4952.3	72.5°	2562.4	212.1	29.9	24.7	22.1	18.0	25.2	30.9	26.8	18.5
3443.8	75°	1657.8	108.1	20.6	16.0	11.8	10.8	18.5	23.2	18.5	11.3
1528.1	77.5°	634.3	45.3	11.3	7.2	6.2	5.1	10.3	13.9	7.7	2.6
296.0	80°	122.0	19.0	5.7	3.6	3.1	2.1	1.5	1.0	0.0	0.0
52.5	82.5°	21.1	6.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
10.3	85°	7.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.6	87.5°	2.6	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>
956.1
580.2
339.8
276.5
255.4
235.8
217.3
200.3
183.8
167.8
151.9
139.0
128.2
120.0
112.2
106.1
97.8
91.1
86.5
81.9
78.8
76.2
73.1
69.5
63.3
51.5
36.0
30.4
24.2
17.5
9.8
2.1
0.0
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0.0
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0.0

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