

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: P951164

Luminaire Tested: **GALN-SB5B-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951164
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-SB5B-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 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: 14660 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

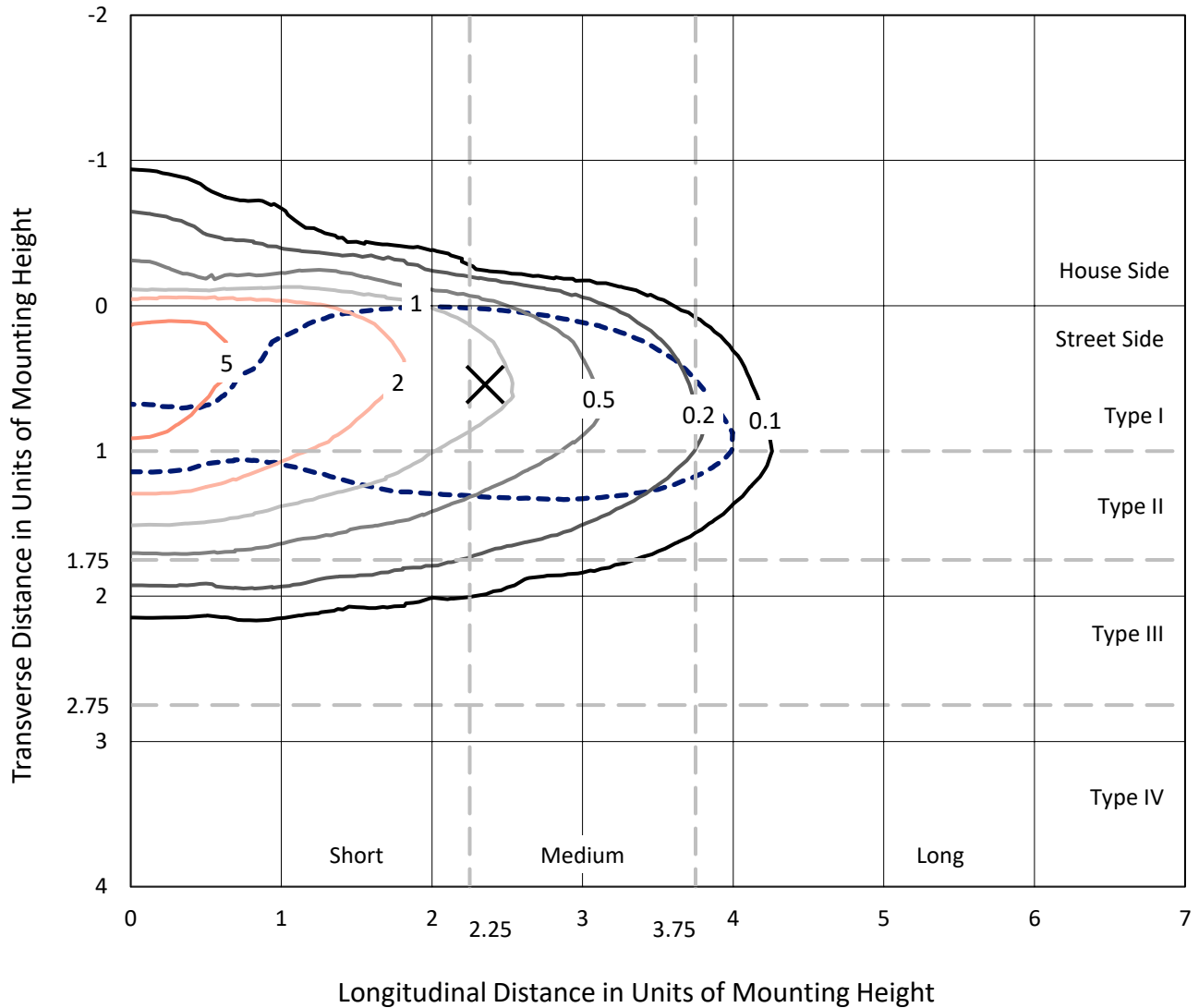
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

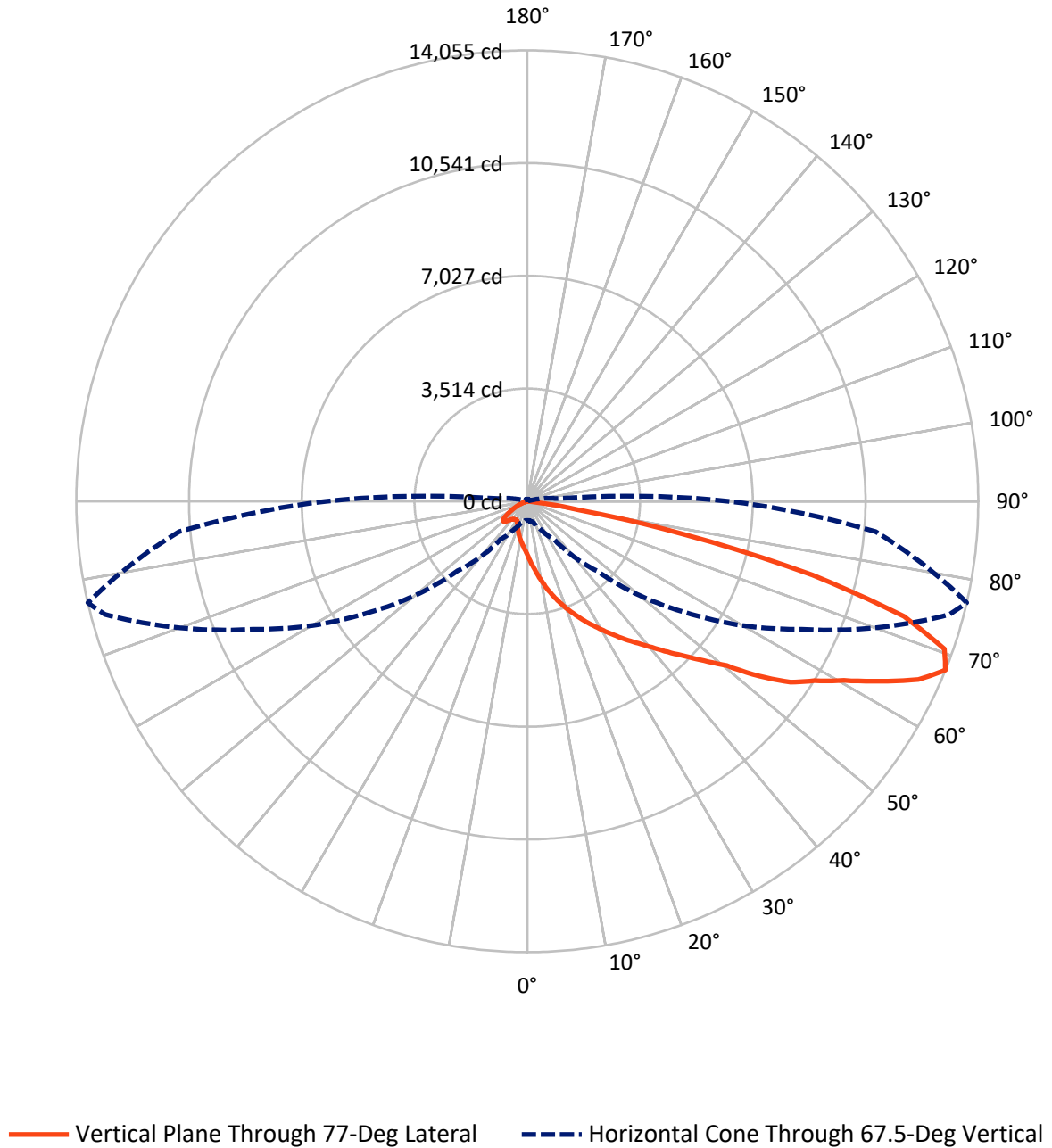
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	1078.5	0.0	1078.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	13581.5	0.0	13581.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	14660.0	0.0	14660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.5	1.2
10°-20°	604.2	4.1
20°-30°	1166.0	8.0
30°-40°	2024.2	13.8
40°-50°	2939.1	20.0
50°-60°	3375.2	23.0
60°-70°	2930.3	20.0
70°-80°	1380.2	9.4
80°-90°	68.3	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°	14660.0	100.0
0°-180°	14660.0	100.0

Coefficient of Utilization



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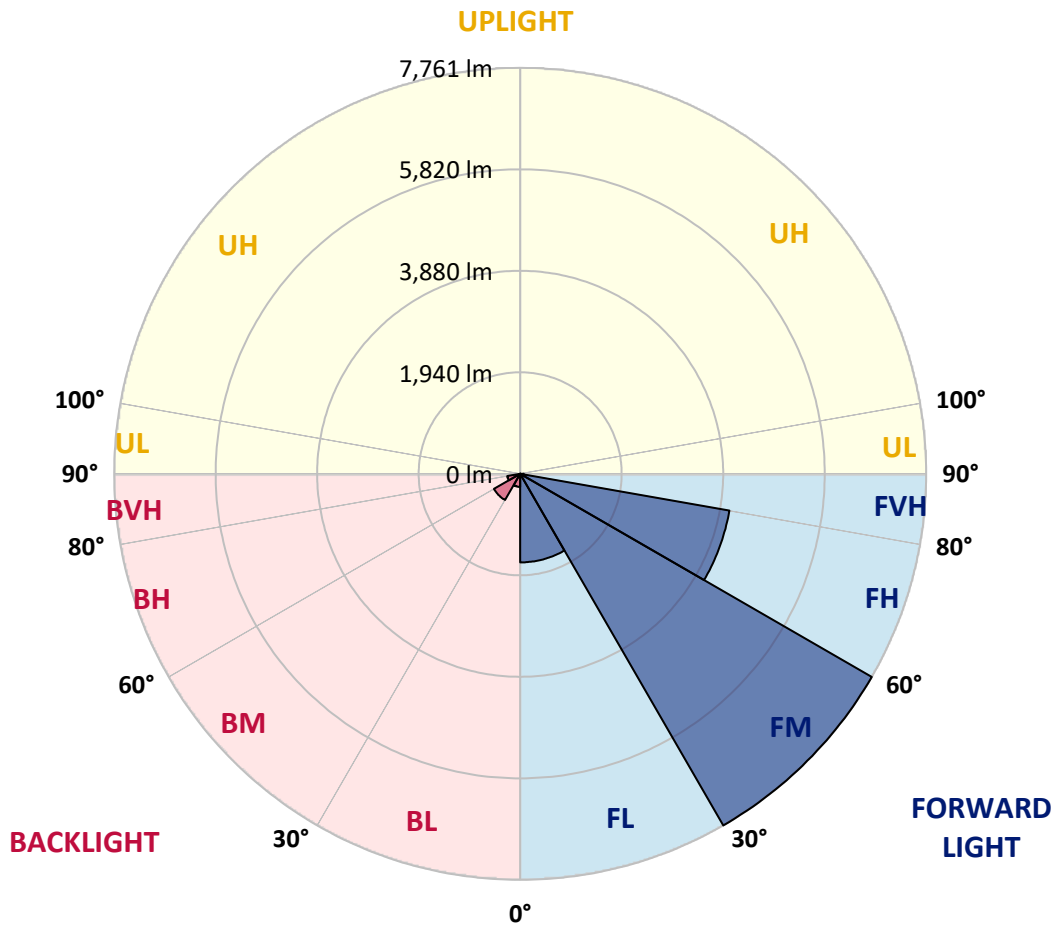
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1693.1	11.5			
FM (30°-60°)	7760.6	52.9			
FH (60°-80°)	4060.8	27.7			G2/5000
FVH (80°-90°)	67.0	0.5			G1/100
BL (0°-30°)	249.7	1.7	B1/500		
BM (30°-60°)	577.9	3.9	B1/1000		
BH (60°-80°)	249.7	1.7	B1/500		G1/500
BVH (80°-90°)	1.3	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°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5
2.5°	2340.5	2355.1	2334.1	2294.1	2234.0	2194.8	2099.3	2009.1	1909.0	1877.1
5°	2853.0	2865.8	2842.1	2798.4	2718.3	2641.8	2516.2	2327.8	2132.0	2069.2
7.5°	3232.6	3239.9	3230.8	3190.8	3114.3	3027.8	2887.6	2664.6	2374.2	2305.0
10°	3505.7	3529.4	3526.7	3511.2	3460.2	3390.1	3240.8	2986.8	2645.5	2556.3
12.5°	3686.9	3713.3	3728.8	3763.4	3760.6	3716.0	3584.9	3316.4	2915.8	2811.2
15°	3739.7	3767.9	3827.1	3907.2	3978.2	4001.0	3909.0	3639.6	3213.5	3079.7
17.5°	3709.7	3753.4	3824.4	3950.9	4106.6	4209.4	4199.4	3951.8	3483.9	3331.0
20°	3776.1	3818.0	3873.5	3980.0	4161.2	4347.8	4422.5	4250.4	3752.4	3592.2
22.5°	4143.9	4136.6	4142.1	4159.4	4267.7	4452.5	4606.4	4521.7	4018.3	3854.4
25°	4726.5	4693.7	4638.2	4544.4	4517.1	4606.4	4766.6	4762.0	4298.7	4123.0
27.5°	5394.7	5389.3	5259.1	5033.3	4905.9	4871.3	4947.7	4996.0	4576.3	4388.8
30°	6034.7	6049.3	5873.6	5622.3	5388.3	5252.7	5183.5	5218.1	4858.5	4675.5
32.5°	6591.8	6607.3	6416.1	6122.1	5832.6	5668.7	5523.1	5437.5	5166.2	4966.9
35°	7062.5	7077.9	6858.6	6533.6	6224.9	6076.6	5911.8	5677.8	5475.7	5290.0
37.5°	7483.0	7478.5	7184.5	6856.7	6553.6	6436.1	6349.7	5973.7	5794.4	5615.0
40°	7731.6	7750.7	7499.4	7138.0	6844.0	6758.4	6753.0	6340.6	6162.1	5988.3
42.5°	7804.4	7838.1	7656.0	7359.2	7092.5	6999.7	7142.6	6737.5	6590.0	6420.7
45°	7673.3	7706.1	7623.2	7417.5	7261.8	7201.8	7477.6	7149.0	7047.0	6879.5
47.5°	7291.0	7331.9	7352.0	7308.3	7306.4	7367.4	7778.0	7582.3	7589.6	7418.4
50°	6550.9	6620.0	6803.9	6958.7	7198.1	7498.5	8070.2	8052.0	8201.3	8053.8
52.5°	5205.4	5303.7	5937.3	6360.6	6898.6	7473.9	8391.6	8805.8	9274.6	9058.9
55°	4183.0	4183.0	4698.3	5490.3	6314.2	7311.9	8531.8	9295.5	10005.6	9954.6
57.5°	3410.2	3451.1	3779.8	4479.8	5468.5	6925.9	8618.3	9603.2	10594.6	10557.3
60°	2104.7	2193.0	2813.9	3504.8	4506.2	6238.6	8563.6	9914.6	11309.2	11339.3
62.5°	1185.3	1218.0	1494.8	2521.7	3503.9	5314.6	8145.8	10088.5	12223.2	12350.7
65°	818.4	834.8	941.3	1569.4	2428.8	4231.3	7329.2	9980.1	13139.0	13396.7
67.5°	594.5	602.6	669.1	958.6	1441.1	3067.9	6049.3	9433.9	13624.2	14054.8
70°	457.0	462.5	510.7	630.0	851.2	1893.5	4393.3	8347.9	13272.9	13787.2
72.5°	371.4	376.9	414.2	466.1	564.4	1119.7	2662.8	6779.4	11721.6	12276.9
75°	313.2	320.4	354.1	387.8	442.4	719.2	1249.0	4721.1	8814.9	9179.0
77.5°	173.9	160.2	287.7	321.4	373.2	455.2	584.4	2778.4	4936.8	5037.9
80°	108.3	112.0	228.5	258.5	286.8	229.4	267.6	1069.7	1711.5	1625.9
82.5°	6.4	14.6	175.7	186.6	196.6	98.3	101.0	363.2	412.4	378.7
85°	0.0	0.0	80.1	64.6	68.3	28.2	29.1	84.7	55.5	60.1
87.5°	0.0	0.0	0.0	1.8	0.0	2.7	5.5	7.3	2.7	3.6
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°
1690.5	0°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5
1777.0	2.5°	1713.3	1649.5	1520.3	1393.7	1290.9	1195.3	1127.0	1062.4	1029.6	1027.8
1891.7	5°	1765.2	1631.3	1372.8	1144.3	960.4	812.9	717.4	649.1	614.5	602.6
2032.8	7.5°	1838.0	1636.8	1243.5	925.8	709.2	582.6	528.0	506.2	498.9	490.7
2192.1	10°	1929.9	1649.5	1127.9	745.6	559.0	495.2	473.4	464.3	458.8	453.4
2371.5	12.5°	2032.8	1661.4	1013.2	619.0	491.6	458.8	443.3	432.4	425.1	418.8
2555.3	15°	2132.9	1668.7	894.0	530.7	457.0	430.6	414.2	402.4	392.4	385.1
2735.6	17.5°	2232.2	1678.7	782.0	477.9	428.8	402.4	386.0	371.4	363.2	355.0
2924.9	20°	2342.3	1676.9	676.4	440.6	400.6	374.2	356.9	343.2	335.0	325.9
3125.2	22.5°	2444.3	1667.8	583.5	408.7	371.4	345.9	326.8	313.2	305.0	297.7
3330.0	25°	2561.7	1660.5	506.2	379.6	344.1	318.6	297.7	284.9	275.8	269.5
3535.8	27.5°	2674.6	1649.5	449.7	353.2	317.7	293.1	273.1	258.5	250.3	245.8
3747.9	30°	2785.7	1646.8	428.8	327.7	294.0	269.5	249.4	235.8	229.4	227.6
3980.9	32.5°	2919.5	1654.1	437.9	318.6	272.2	247.6	228.5	218.5	212.1	212.1
4240.4	35°	3062.4	1652.3	451.5	326.8	257.6	225.8	211.2	204.8	198.5	198.5
4528.1	37.5°	3241.7	1655.0	462.5	340.5	252.2	207.6	199.4	191.2	187.5	187.5
4843.0	40°	3509.4	1745.1	457.0	352.3	250.3	194.8	178.4	175.7	173.0	173.0
5199.0	42.5°	3837.1	1940.9	464.3	353.2	249.4	185.7	163.9	169.3	163.0	162.0
5600.5	45°	4195.8	2154.8	510.7	334.1	248.5	181.2	156.6	163.0	152.9	152.9
6065.6	47.5°	4551.7	2366.9	558.0	306.8	245.8	180.2	150.2	146.6	143.8	144.7
6671.9	50°	5042.4	2539.9	576.2	269.5	239.4	178.4	138.4	139.3	137.5	139.3
7526.7	52.5°	5576.8	2576.3	554.4	227.6	221.2	173.0	130.2	133.8	132.9	134.7
8128.5	55°	5910.0	2537.1	457.9	189.4	193.0	151.1	122.0	129.3	129.3	129.3
8716.6	57.5°	6254.1	2370.5	325.0	153.8	160.2	123.8	114.7	124.7	123.8	122.9
9424.8	60°	6501.7	2101.1	213.9	126.5	127.4	102.0	106.5	117.4	116.5	112.0
10154.9	62.5°	6686.5	1803.4	137.5	107.4	97.4	91.9	97.4	106.5	102.9	92.9
10774.0	65°	6665.6	1391.0	105.6	91.9	80.1	80.1	84.7	92.9	81.9	65.5
10892.3	67.5°	6276.8	941.3	87.4	77.4	67.4	66.5	70.1	77.4	70.1	55.5
10286.0	70°	5582.2	615.4	70.1	60.1	53.7	49.2	56.4	66.5	59.2	44.6
8756.6	72.5°	4530.8	375.1	52.8	43.7	39.1	31.9	44.6	54.6	47.3	32.8
6089.3	75°	2931.3	191.2	36.4	28.2	20.9	19.1	32.8	41.0	32.8	20.0
2701.9	77.5°	1121.5	80.1	20.0	12.7	10.9	9.1	18.2	24.6	13.7	4.6
523.4	80°	215.8	33.7	10.0	6.4	5.5	3.6	2.7	1.8	0.0	0.0
92.9	82.5°	37.3	10.9	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
18.2	85°	12.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.4	87.5°	4.6	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>
1690.5
1026.0
600.8
488.9
451.5
416.9
384.2
354.1
325.0
296.8
268.6
245.8
226.7
212.1
198.5
187.5
173.0
161.1
152.9
144.7
139.3
134.7
129.3
122.9
112.0
91.0
63.7
53.7
42.8
31.0
17.3
3.6
0.0
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