

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: P955448

Luminaire Tested: **GALN-SB8B-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955448
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-SB8B-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 23467 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

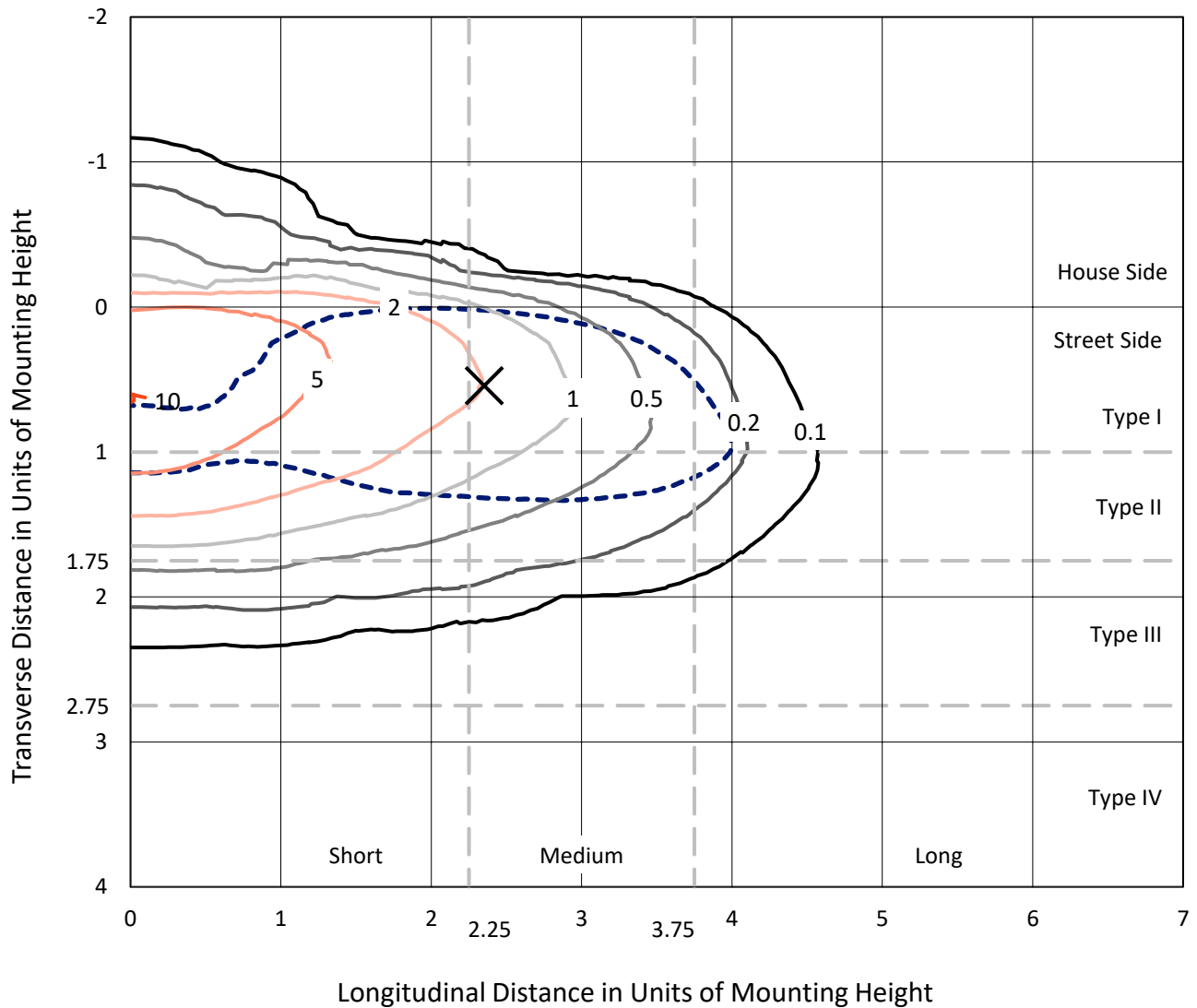
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

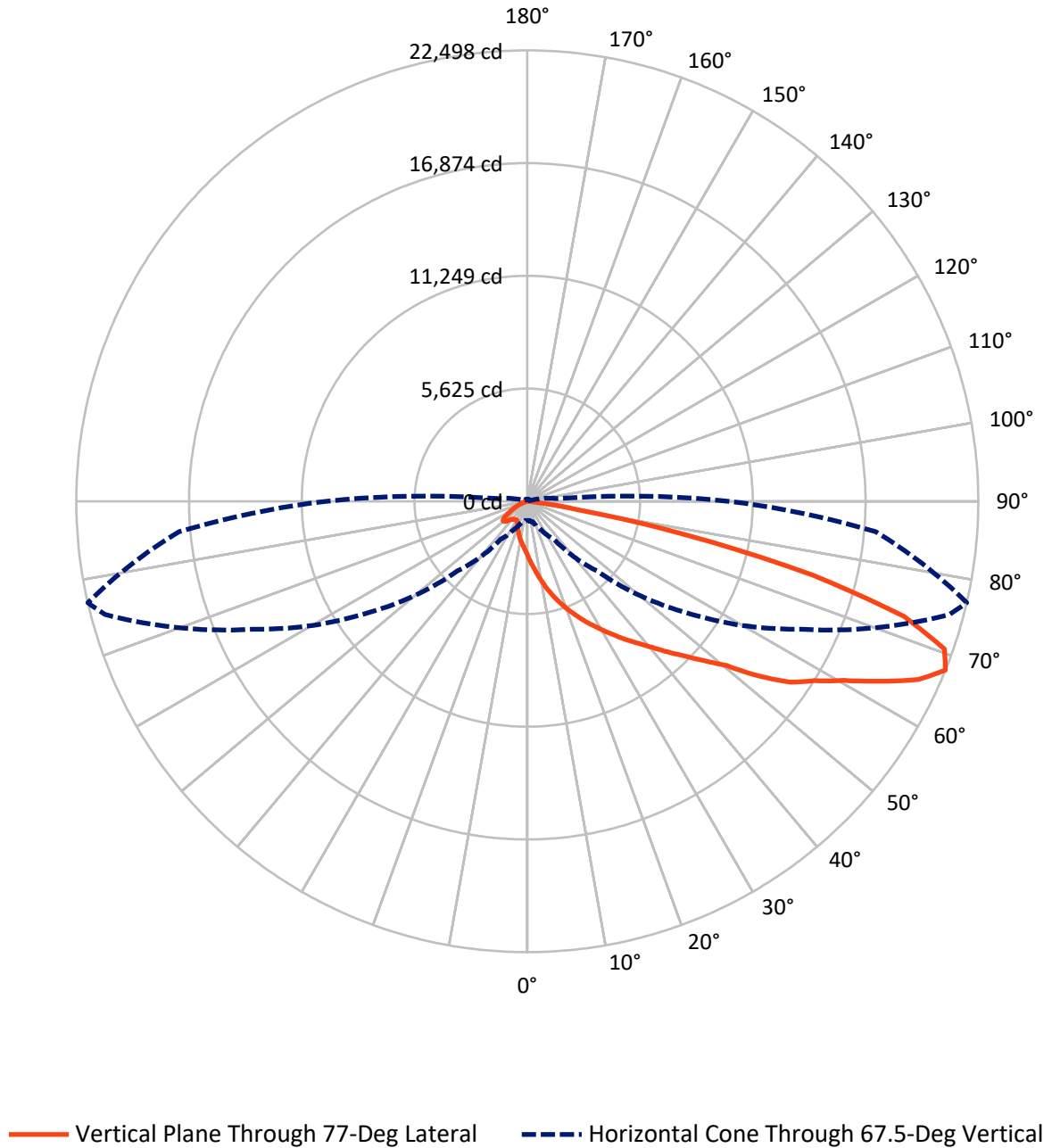
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	1726.5	0.0	1726.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	21740.5	0.0	21740.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	23467.0	0.0	23467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.2	1.2
10°-20°	967.2	4.1
20°-30°	1866.5	8.0
30°-40°	3240.3	13.8
40°-50°	4704.7	20.0
50°-60°	5402.8	23.0
60°-70°	4690.6	20.0
70°-80°	2209.3	9.4
80°-90°	109.3	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°	23467.0	100.0
0°-180°	23467.0	100.0

Coefficient of Utilization



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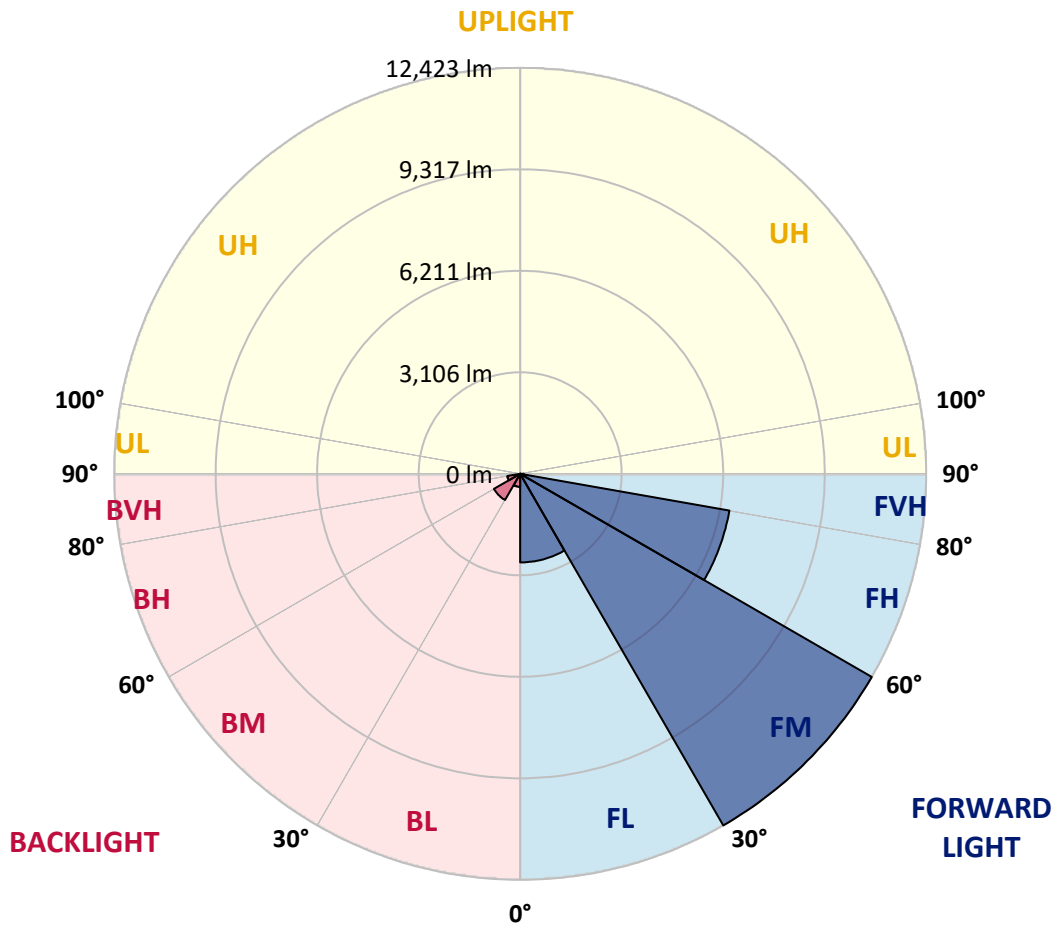
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2710.2	11.5			
FM (30°-60°)	12422.8	52.9			
FH (60°-80°)	6500.3	27.7			G3/7500
FVH (80°-90°)	107.2	0.5			G2/225
BL (0°-30°)	399.7	1.7	B1/500		
BM (30°-60°)	925.1	3.9	B1/1000		
BH (60°-80°)	399.7	1.7	B1/500		G1/500
BVH (80°-90°)	2.0	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2706.1	2706.1	2706.1	2706.1	2706.1	2706.1	2706.1	2706.1	2706.1	2706.1
2.5°	3746.6	3769.9	3736.4	3672.2	3576.1	3513.4	3360.4	3216.1	3055.8	3004.8
5°	4567.0	4587.4	4549.5	4479.5	4351.3	4228.9	4027.8	3726.2	3412.9	3312.3
7.5°	5174.7	5186.3	5171.7	5107.6	4985.2	4846.8	4622.4	4265.3	3800.5	3689.7
10°	5611.8	5649.7	5645.3	5620.6	5539.0	5426.8	5187.8	4781.2	4234.7	4091.9
12.5°	5901.8	5944.1	5968.8	6024.2	6019.8	5948.4	5738.6	5308.7	4667.5	4499.9
15°	5986.3	6031.5	6126.2	6254.5	6368.1	6404.6	6257.4	5826.0	5144.0	4929.8
17.5°	5938.2	6008.2	6121.9	6324.4	6573.6	6738.3	6722.2	6325.9	5576.8	5332.0
20°	6044.6	6111.7	6200.5	6371.0	6661.0	6959.8	7079.3	6803.8	6006.7	5750.3
22.5°	6633.3	6621.7	6630.4	6658.1	6831.5	7127.3	7373.6	7238.1	6432.2	6169.9
25°	7566.0	7513.5	7424.6	7274.5	7230.8	7373.6	7630.1	7622.8	6881.1	6599.8
27.5°	8635.6	8626.8	8418.5	8057.1	7853.1	7797.7	7920.1	7997.3	7325.5	7025.3
30°	9660.0	9683.3	9402.1	8999.9	8625.4	8408.3	8297.5	8352.9	7777.3	7484.4
32.5°	10551.9	10576.6	10270.6	9799.9	9336.5	9074.2	8841.1	8704.1	8269.8	7950.7
35°	11305.2	11330.0	10978.8	10458.6	9964.6	9727.1	9463.3	9088.8	8765.3	8468.0
37.5°	11978.5	11971.2	11500.5	10975.9	10490.7	10302.7	10164.2	9562.4	9275.3	8988.2
40°	12376.3	12406.9	12004.7	11426.2	10955.5	10818.5	10809.8	10149.7	9864.0	9585.7
42.5°	12492.9	12546.8	12255.4	11780.3	11353.3	11204.7	11433.5	10785.0	10548.9	10277.9
45°	12283.1	12335.5	12202.9	11873.6	11624.4	11528.2	11969.7	11443.7	11280.5	11012.3
47.5°	11671.0	11736.6	11768.7	11698.7	11695.8	11793.4	12450.6	12137.3	12149.0	11875.0
50°	10486.3	10597.0	10891.4	11139.1	11522.4	12003.3	12918.4	12889.3	13128.3	12892.2
52.5°	8332.5	8489.9	9504.1	10181.7	11042.9	11963.9	13432.8	14095.9	14846.3	14501.0
55°	6696.0	6696.0	7520.8	8788.6	10107.4	11704.5	13657.2	14879.9	16016.5	15934.9
57.5°	5458.8	5524.4	6050.5	7171.1	8753.6	11086.7	13795.7	15372.4	16959.3	16899.6
60°	3369.1	3510.5	4504.3	5610.4	7213.3	9986.4	13708.2	15870.8	18103.3	18151.4
62.5°	1897.3	1949.8	2392.8	4036.5	5608.9	8507.4	13039.4	16149.1	19566.3	19770.3
65°	1310.1	1336.3	1506.8	2512.3	3887.9	6773.2	11732.2	15975.7	21032.3	21444.7
67.5°	951.6	964.7	1071.1	1534.5	2306.8	4910.9	9683.3	15101.4	21809.0	22498.3
70°	731.5	740.3	817.5	1008.4	1362.5	3031.1	7032.6	13362.9	21246.5	22069.9
72.5°	594.6	603.3	663.0	746.1	903.5	1792.4	4262.4	10852.0	18763.4	19652.3
75°	501.3	512.9	566.9	620.8	708.2	1151.2	1999.3	7557.2	14110.4	14693.3
77.5°	278.3	256.5	460.5	514.4	597.5	728.6	935.5	4447.5	7902.6	8064.4
80°	173.4	179.2	365.8	413.9	459.0	367.2	428.4	1712.3	2739.6	2602.6
82.5°	10.2	23.3	281.2	298.7	314.8	157.4	161.8	581.4	660.1	606.2
85°	0.0	0.0	128.2	103.5	109.3	45.2	46.6	135.5	88.9	96.2
87.5°	0.0	0.0	0.0	2.9	0.0	4.4	8.7	11.7	4.4	5.8
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°
2706.1	0°	2706.1	2706.1	2706.1	2706.1	2706.1	2706.1	2706.1	2706.1	2706.1	2706.1
2844.5	2.5°	2742.5	2640.5	2433.6	2231.0	2066.4	1913.4	1804.1	1700.6	1648.1	1645.2
3028.1	5°	2825.6	2611.4	2197.5	1831.7	1537.4	1301.3	1148.3	1039.0	983.6	964.7
3254.0	7.5°	2942.2	2620.1	1990.6	1482.0	1135.2	932.6	845.2	810.2	798.6	785.5
3509.0	10°	3089.3	2640.5	1805.5	1193.5	894.7	792.7	757.8	743.2	734.4	725.7
3796.1	12.5°	3254.0	2659.5	1621.9	990.9	786.9	734.4	709.7	692.2	680.5	670.3
4090.5	15°	3414.3	2671.1	1431.0	849.6	731.5	689.3	663.0	644.1	628.1	616.4
4379.0	17.5°	3573.1	2687.1	1251.8	765.0	686.4	644.1	617.9	594.6	581.4	568.3
4682.1	20°	3749.5	2684.2	1082.7	705.3	641.2	598.9	571.2	549.4	536.3	521.7
5002.7	22.5°	3912.7	2669.7	934.1	654.3	594.6	553.8	523.1	501.3	488.2	476.5
5330.6	25°	4100.7	2658.0	810.2	607.7	550.8	510.0	476.5	456.1	441.5	431.3
5659.9	27.5°	4281.4	2640.5	719.9	565.4	508.6	469.2	437.2	413.9	400.7	393.5
5999.4	30°	4459.1	2636.1	686.4	524.6	470.7	431.3	399.3	377.4	367.2	364.3
6372.5	32.5°	4673.4	2647.8	700.9	510.0	435.7	396.4	365.8	349.7	339.5	339.5
6787.8	35°	4902.1	2644.9	722.8	523.1	412.4	361.4	338.1	327.9	317.7	317.7
7248.3	37.5°	5189.2	2649.3	740.3	545.0	403.7	332.3	319.1	306.0	300.2	300.2
7752.5	40°	5617.7	2793.5	731.5	564.0	400.7	311.8	285.6	281.2	276.9	276.9
8322.3	42.5°	6142.3	3106.8	743.2	565.4	399.3	297.3	262.3	271.0	260.8	259.4
8964.9	45°	6716.4	3449.3	817.5	534.8	397.8	290.0	250.6	260.8	244.8	244.8
9709.6	47.5°	7286.2	3788.8	893.3	491.1	393.5	288.5	240.4	234.6	230.2	231.7
10680.1	50°	8071.6	4065.7	922.4	431.3	383.3	285.6	221.5	223.0	220.0	223.0
12048.4	52.5°	8927.0	4124.0	887.5	364.3	354.1	276.9	208.4	214.2	212.8	215.7
13011.7	55°	9460.4	4061.3	733.0	303.1	308.9	241.9	195.3	206.9	206.9	206.9
13953.0	57.5°	10011.2	3794.6	520.2	246.3	256.5	198.2	183.6	199.6	198.2	196.7
15086.8	60°	10407.6	3363.3	342.5	202.6	204.0	163.2	170.5	188.0	186.5	179.2
16255.5	62.5°	10703.4	2886.8	220.0	172.0	155.9	147.2	155.9	170.5	164.7	148.6
17246.4	65°	10669.9	2226.7	169.0	147.2	128.2	128.2	135.5	148.6	131.2	104.9
17435.8	67.5°	10047.7	1506.8	139.9	123.9	107.8	106.4	112.2	123.9	112.2	88.9
16465.3	70°	8935.8	985.1	112.2	96.2	86.0	78.7	90.3	106.4	94.7	71.4
14017.2	72.5°	7252.7	600.4	84.5	69.9	62.7	51.0	71.4	87.4	75.8	52.5
9747.5	75°	4692.3	306.0	58.3	45.2	33.5	30.6	52.5	65.6	52.5	32.1
4325.1	77.5°	1795.3	128.2	32.1	20.4	17.5	14.6	29.1	39.3	21.9	7.3
837.9	80°	345.4	53.9	16.0	10.2	8.7	5.8	4.4	2.9	0.0	0.0
148.6	82.5°	59.7	17.5	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
29.1	85°	20.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.2	87.5°	7.3	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>
2706.1
1642.3
961.8
782.5
722.8
667.4
615.0
566.9
520.2
475.1
429.9
393.5
362.9
339.5
317.7
300.2
276.9
257.9
244.8
231.7
223.0
215.7
206.9
196.7
179.2
145.7
102.0
86.0
68.5
49.5
27.7
5.8
0.0
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0.0
0.0
0.0

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