

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: P954024

Luminaire Tested: **GALN-SB7B-927-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954024  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-927-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

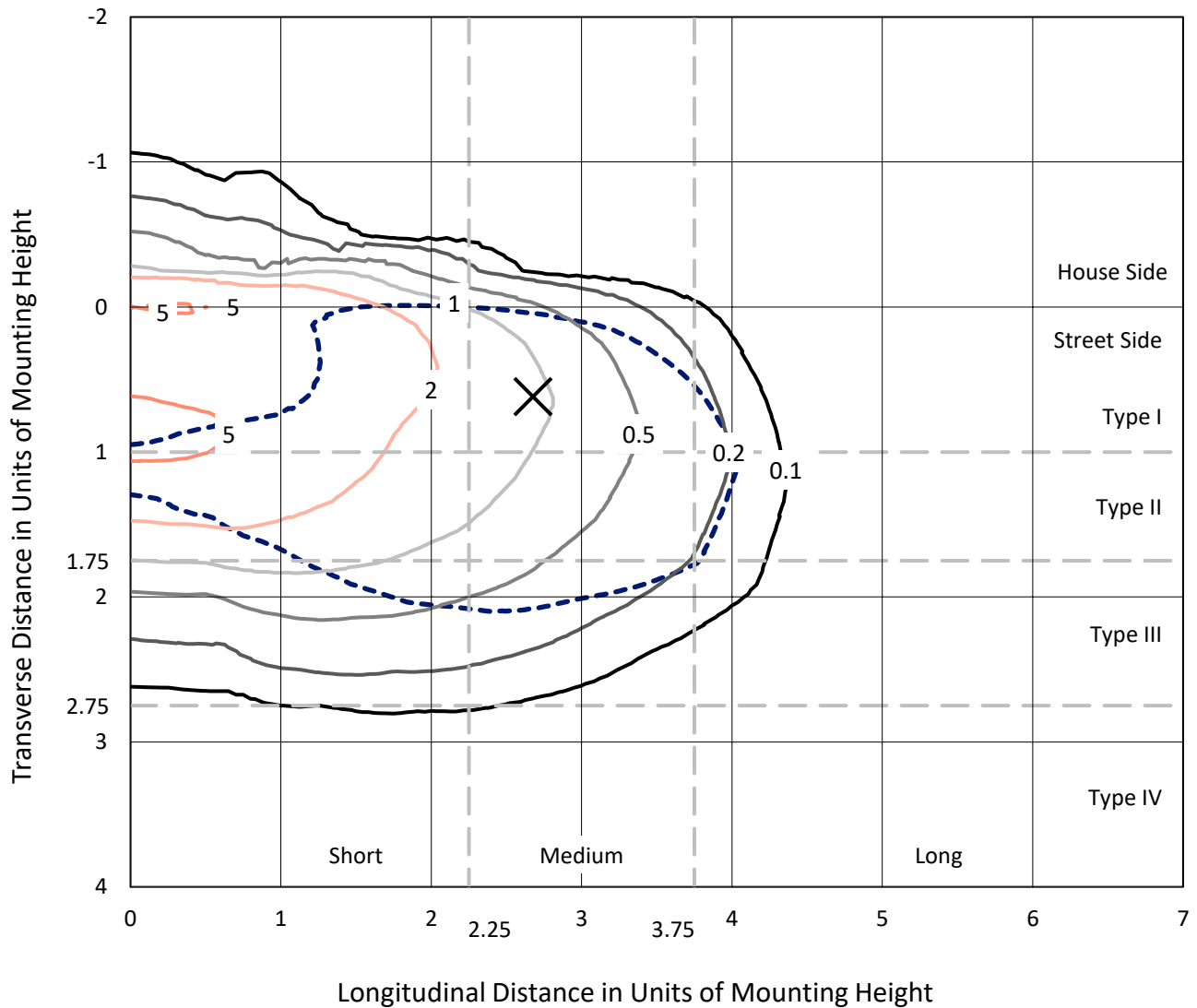
Lumens per Lamp: N/A  
Luminaire Lumens: 20294 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P954024  
 CATALOG NUMBER: GALN-SB7B-927-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

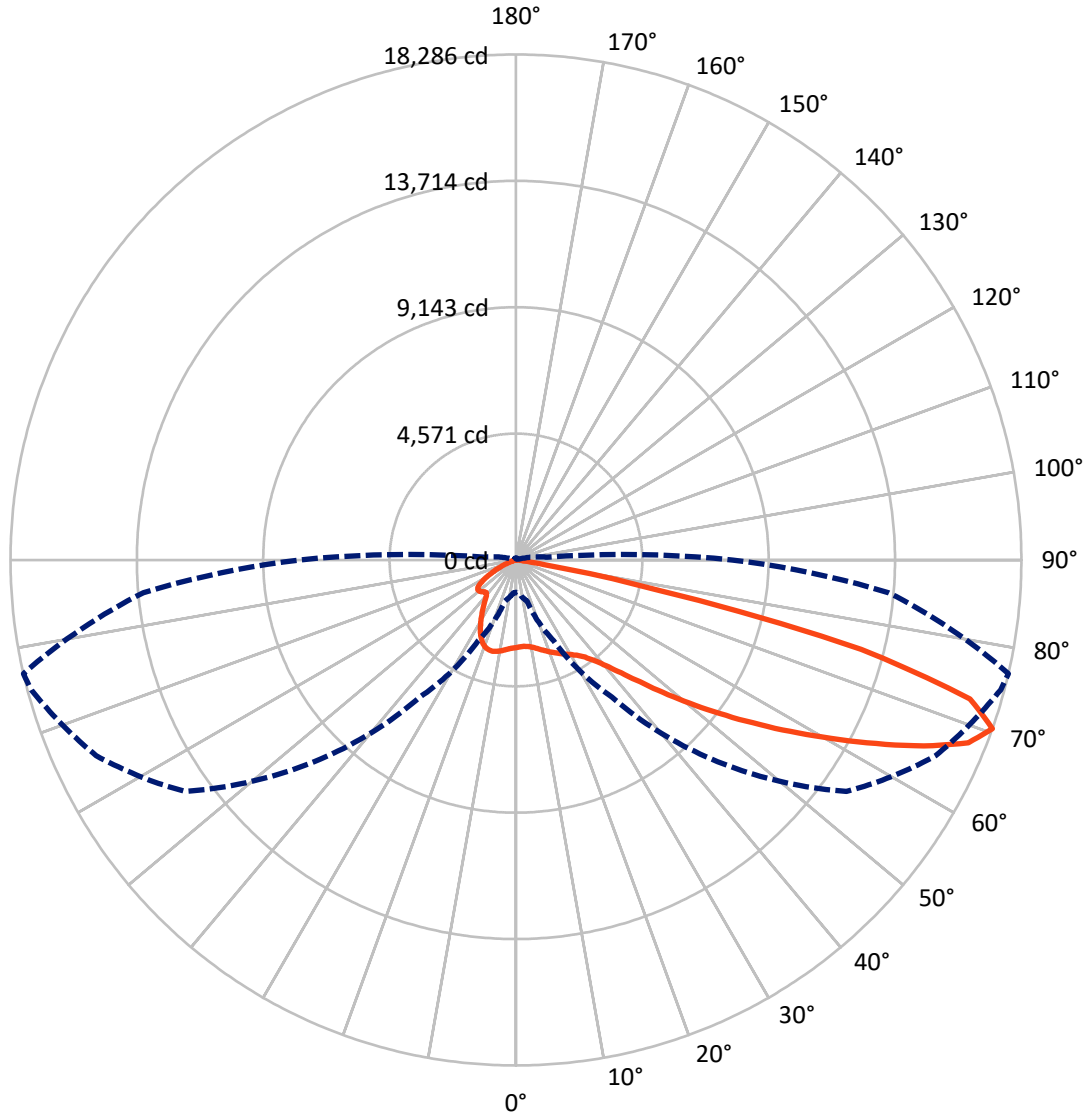
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type III - Medium - N/A

REPORT NUMBER: P954024  
CATALOG NUMBER: GALN-SB7B-927-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P954024

CATALOG NUMBER: GALN-SB7B-927-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2139.3	0.0	2139.3
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	18154.7	0.0	18154.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	20294.0	0.0	20294.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.8	1.3
10°-20°	647.6	3.2
20°-30°	1001.7	4.9
30°-40°	1817.7	9.0
40°-50°	3431.0	16.9
50°-60°	4957.6	24.4
60°-70°	5277.2	26.0
70°-80°	2796.5	13.8
80°-90°	91.8	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°	20294.0	100.0
0°-180°	20294.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P954024

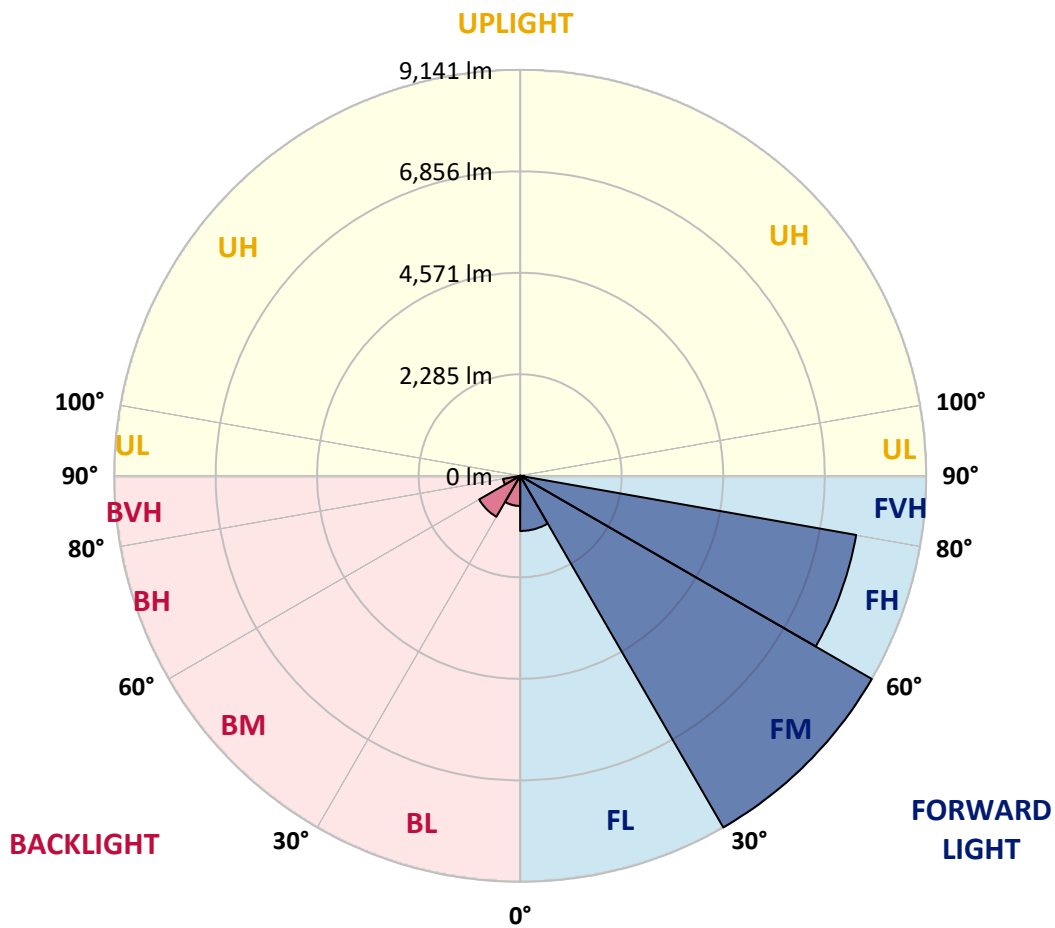
CATALOG NUMBER: GALN-SB7B-927-U-T3R-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.5	6.1			
FM (30°-60°)	9141.3	45.0			
FH (60°-80°)	7681.6	37.9			G4/12000
FVH (80°-90°)	89.4	0.4			G1/100
BL (0°-30°)	679.7	3.3	B2/1000		
BM (30°-60°)	1064.9	5.2	B2/2500		
BH (60°-80°)	392.2	1.9	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Medium



REPORT NUMBER: P954024

CATALOG NUMBER: GALN-SB7B-927-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3165.5	3165.5	3165.5	3165.5	3165.5	3165.5	3165.5	3165.5	3165.5	3165.5
2.5°	2972.0	2998.9	2995.0	3013.0	3019.4	3045.0	3070.7	3105.3	3143.7	3142.4
5°	2804.1	2831.0	2837.4	2861.8	2892.5	2932.3	2984.8	3054.0	3125.8	3137.3
7.5°	2605.4	2633.6	2650.3	2699.0	2755.4	2837.4	2923.3	3024.5	3143.7	3160.4
10°	2406.8	2432.4	2454.2	2523.4	2613.1	2734.9	2874.6	3020.7	3180.9	3205.2
12.5°	2283.8	2308.1	2332.5	2392.7	2504.2	2652.9	2842.5	3038.6	3242.4	3277.0
15°	2240.2	2262.0	2281.2	2335.0	2438.8	2608.0	2836.1	3075.8	3320.6	3366.7
17.5°	2246.6	2258.1	2271.0	2312.0	2413.2	2587.5	2847.7	3139.9	3412.8	3453.9
20°	2283.8	2290.2	2291.5	2319.7	2409.4	2584.9	2870.7	3201.4	3500.0	3555.1
22.5°	2331.2	2333.8	2331.2	2350.4	2433.7	2604.2	2901.5	3275.7	3597.4	3648.7
25°	2552.9	2504.2	2442.7	2405.5	2474.7	2641.3	2947.6	3375.7	3703.8	3753.7
27.5°	3241.1	3101.4	2881.0	2633.6	2559.3	2695.2	3011.7	3476.9	3811.4	3856.3
30°	4358.6	4175.4	3801.2	3243.7	2831.0	2807.9	3095.0	3578.2	3925.5	3974.2
32.5°	5478.7	5433.9	5002.0	4230.5	3442.3	3059.1	3233.4	3715.3	4076.7	4115.1
35°	6611.7	6520.7	6167.0	5404.4	4384.3	3570.5	3464.1	3894.7	4275.3	4318.9
37.5°	7479.3	7424.2	7205.0	6577.1	5501.8	4359.9	3858.8	4172.8	4563.7	4612.4
40°	8245.7	8220.0	8145.7	7731.8	6751.4	5392.9	4472.7	4603.4	4963.6	5021.2
42.5°	8848.0	8908.2	8950.5	8835.2	8039.3	6571.9	5298.0	5208.3	5521.0	5580.0
45°	9464.5	9485.0	9655.4	9822.0	9318.4	7804.8	6228.5	5917.0	6214.4	6287.4
47.5°	9860.5	9942.5	10242.4	10535.9	10393.6	9027.4	7228.1	6753.9	7017.9	7155.0
50°	9889.9	10045.0	10457.7	10969.0	11176.6	10191.1	8314.9	7707.4	7988.1	8139.3
52.5°	9399.1	9640.0	10279.5	11028.0	11599.6	11176.6	9438.8	8660.9	9021.0	9218.4
55°	7206.3	7521.6	9609.3	10707.6	11616.2	11923.8	10533.3	9654.1	10171.9	10394.9
57.5°	6278.5	6437.4	7554.9	10151.4	11307.4	12225.0	11522.7	10599.9	11424.0	11700.8
60°	5223.7	5432.6	6336.1	9241.5	10888.3	12254.4	12396.7	11820.0	12781.2	13092.6
62.5°	3550.0	3776.8	4675.2	7677.9	10315.4	12240.4	13113.1	13075.9	14289.6	14624.1
65°	2199.2	2341.4	2933.5	6269.5	9514.4	12255.7	13862.8	14601.0	15881.3	16220.9
67.5°	1737.8	1803.2	2112.0	4813.6	8134.2	11909.7	14611.3	16035.1	17379.5	17648.6
70°	1167.5	1207.2	1536.6	3227.0	6051.6	10312.9	14597.2	16755.3	18151.0	18285.6
72.5°	615.2	645.9	898.4	1494.3	3655.1	7330.6	12304.4	15894.1	17383.3	17180.8
75°	307.6	358.8	604.9	758.7	1561.0	4088.2	7640.8	12531.3	13682.1	12897.8
77.5°	233.2	281.9	499.8	499.8	543.4	1376.4	3236.0	6834.7	6304.1	5249.3
80°	148.7	192.2	437.0	378.1	226.8	349.9	843.3	1914.7	1339.2	1018.9
82.5°	87.1	125.6	364.0	249.9	126.9	129.4	238.4	407.5	347.3	270.4
85°	34.6	82.0	249.9	98.7	50.0	32.0	71.8	87.1	71.8	53.8
87.5°	0.0	19.2	43.6	0.0	3.8	2.6	5.1	6.4	6.4	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954024  
 CATALOG NUMBER: GALN-SB7B-927-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3165.5	0°	3165.5	3165.5	3165.5	3165.5	3165.5	3165.5	3165.5	3165.5	3165.5	3165.5
3168.1	2.5°	3179.6	3182.2	3189.8	3191.1	3173.2	3150.1	3141.1	3137.3	3121.9	3120.6
3188.6	5°	3218.0	3229.6	3218.0	3184.7	3105.3	2993.8	2909.2	2840.0	2777.2	2758.0
3259.1	7.5°	3294.9	3306.5	3271.9	3141.1	2941.2	2719.5	2519.6	2378.6	2251.7	2204.3
3344.9	10°	3405.2	3420.5	3311.6	3047.6	2693.9	2337.6	1999.3	1760.9	1575.1	1499.4
3461.5	12.5°	3543.6	3550.0	3333.4	2905.3	2372.2	1863.4	1384.1	1129.1	963.7	902.2
3602.5	15°	3696.1	3687.1	3335.9	2711.8	1933.9	1317.5	903.5	742.0	675.4	654.9
3743.5	17.5°	3856.3	3819.1	3284.7	2432.4	1453.3	900.9	670.3	631.8	620.3	615.2
3883.2	20°	4013.9	3930.6	3191.1	2067.2	1043.2	672.8	608.7	597.2	590.8	588.2
4024.2	22.5°	4157.4	4015.2	3030.9	1643.0	757.4	594.7	575.4	565.2	553.6	548.5
4161.3	25°	4297.1	4063.9	2805.4	1247.0	606.2	556.2	540.8	521.6	506.2	499.8
4308.7	27.5°	4433.0	4094.6	2523.4	922.7	540.8	520.3	492.1	465.2	453.7	451.1
4466.3	30°	4577.8	4104.9	2203.0	688.2	501.1	475.5	434.5	403.7	397.3	398.6
4679.0	32.5°	4754.7	4120.3	1880.1	563.9	467.8	421.6	372.9	340.9	335.8	340.9
4989.2	35°	4966.1	4151.0	1568.7	519.0	438.3	366.5	314.0	287.1	281.9	285.8
5386.5	37.5°	5253.2	4201.0	1277.7	510.1	413.9	320.4	264.0	242.2	242.2	243.5
5873.5	40°	5635.1	4334.3	1017.6	503.7	401.1	285.8	223.0	214.0	217.9	220.4
6493.8	42.5°	6100.3	4617.5	842.0	496.0	387.0	270.4	202.5	198.6	205.1	207.6
7237.1	45°	6621.9	4976.4	780.5	483.2	374.2	280.7	193.5	188.4	196.1	197.4
8070.1	47.5°	7161.5	5327.5	772.8	469.1	361.4	296.0	191.0	179.4	188.4	189.7
8959.5	50°	7707.4	5556.9	780.5	447.3	340.9	296.0	192.2	170.4	178.1	182.0
9882.2	52.5°	8257.2	5662.0	775.4	399.9	305.0	278.1	192.2	162.8	170.4	173.0
10879.3	55°	8790.3	5641.5	697.2	329.4	258.9	246.1	187.1	156.4	161.5	162.8
11821.3	57.5°	9212.0	5355.7	552.4	256.3	210.2	205.1	170.4	148.7	152.5	151.2
12685.1	60°	9432.4	4727.7	394.7	197.4	165.3	161.5	149.9	138.4	141.0	134.6
13416.8	62.5°	9435.0	3897.3	264.0	156.4	132.0	128.2	128.2	124.3	121.7	108.9
13983.3	65°	9233.8	2975.8	175.6	124.3	106.4	100.0	107.7	106.4	97.4	79.5
14156.3	67.5°	8777.5	1950.6	133.3	97.4	82.0	78.2	85.9	89.7	83.3	66.6
13525.8	70°	7839.4	1135.5	110.2	75.6	61.5	57.7	69.2	76.9	69.2	53.8
11561.1	72.5°	6511.7	612.6	89.7	56.4	42.3	38.4	55.1	62.8	55.1	39.7
7417.8	75°	4225.4	328.1	69.2	37.2	21.8	24.3	41.0	46.1	38.4	25.6
2177.4	77.5°	1418.7	144.8	43.6	17.9	10.3	10.3	24.3	28.2	17.9	9.0
396.0	80°	316.5	60.2	17.9	7.7	3.8	3.8	5.1	5.1	2.6	0.0
121.7	82.5°	103.8	24.3	7.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
30.8	85°	39.7	9.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.3	87.5°	15.4	1.3	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>
3165.5
3123.2
2746.4
2185.1
1467.4
883.0
654.9
613.9
585.7
547.2
497.3
448.6
398.6
339.6
284.5
242.2
220.4
207.6
198.6
191.0
183.3
173.0
162.8
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