

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: P954087

Luminaire Tested: **GALN-SB7B-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954087
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-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 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: 24159 lumens
Efficiency: N/A
Efficacy: 94.1 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

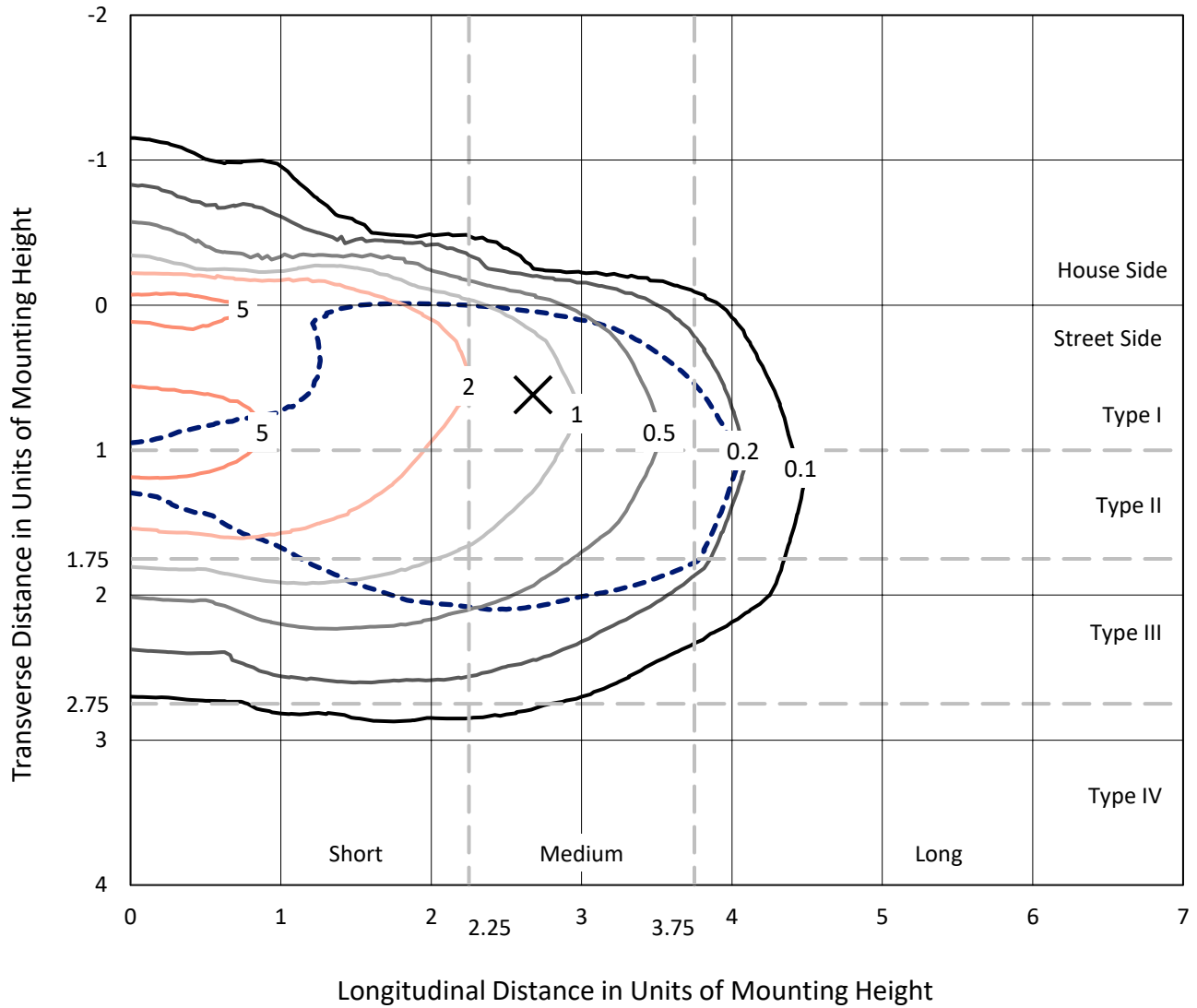
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

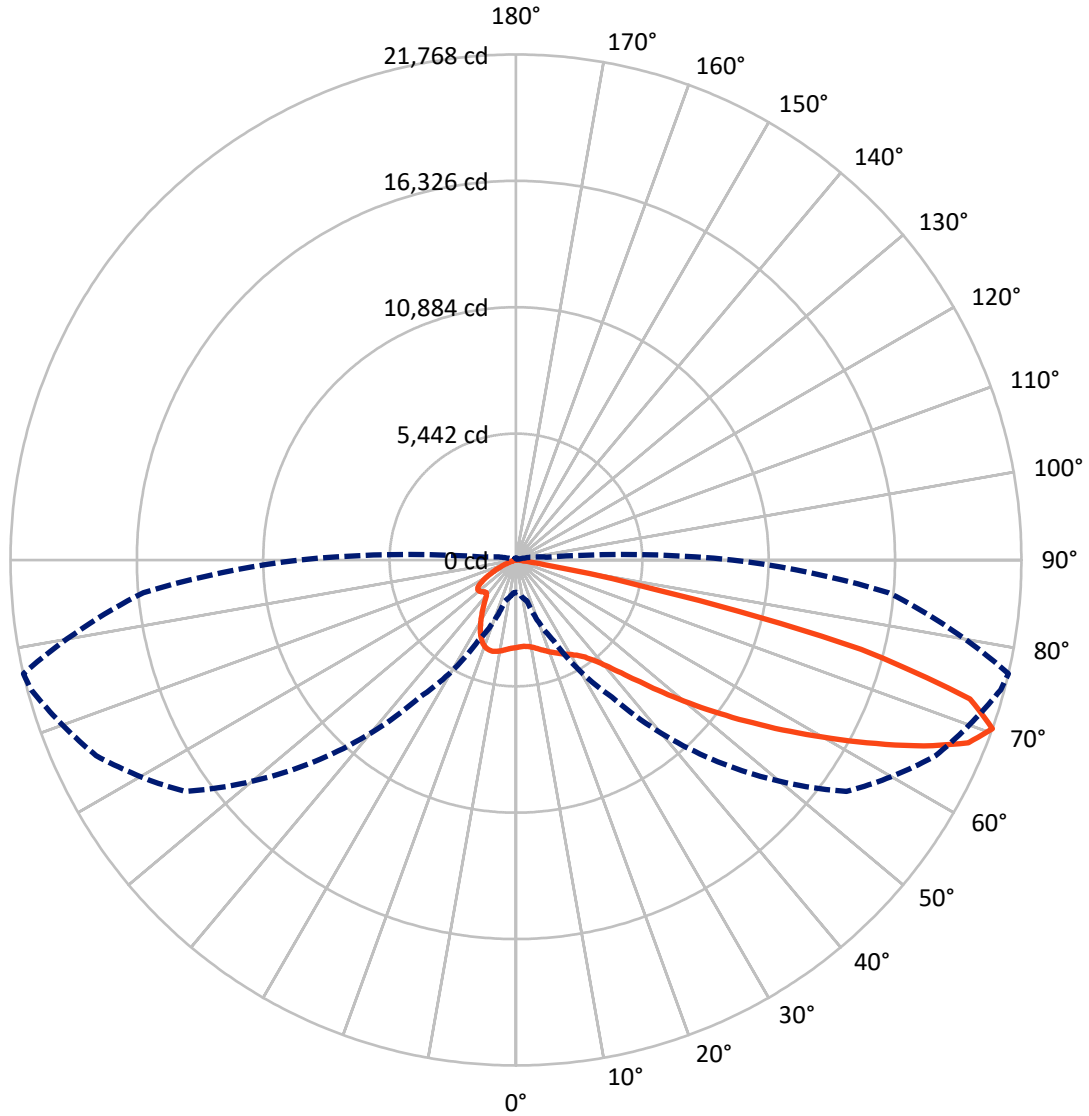
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P954087
CATALOG NUMBER: GALN-SB7B-940-U-T3R-HSS

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2546.7	0.0	2546.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	21612.3	0.0	21612.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	24159.0	0.0	24159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.8	1.3
10°-20°	771.0	3.2
20°-30°	1192.5	4.9
30°-40°	2163.8	9.0
40°-50°	4084.5	16.9
50°-60°	5901.7	24.4
60°-70°	6282.2	26.0
70°-80°	3329.2	13.8
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°	24159.0	100.0
0°-180°	24159.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954087

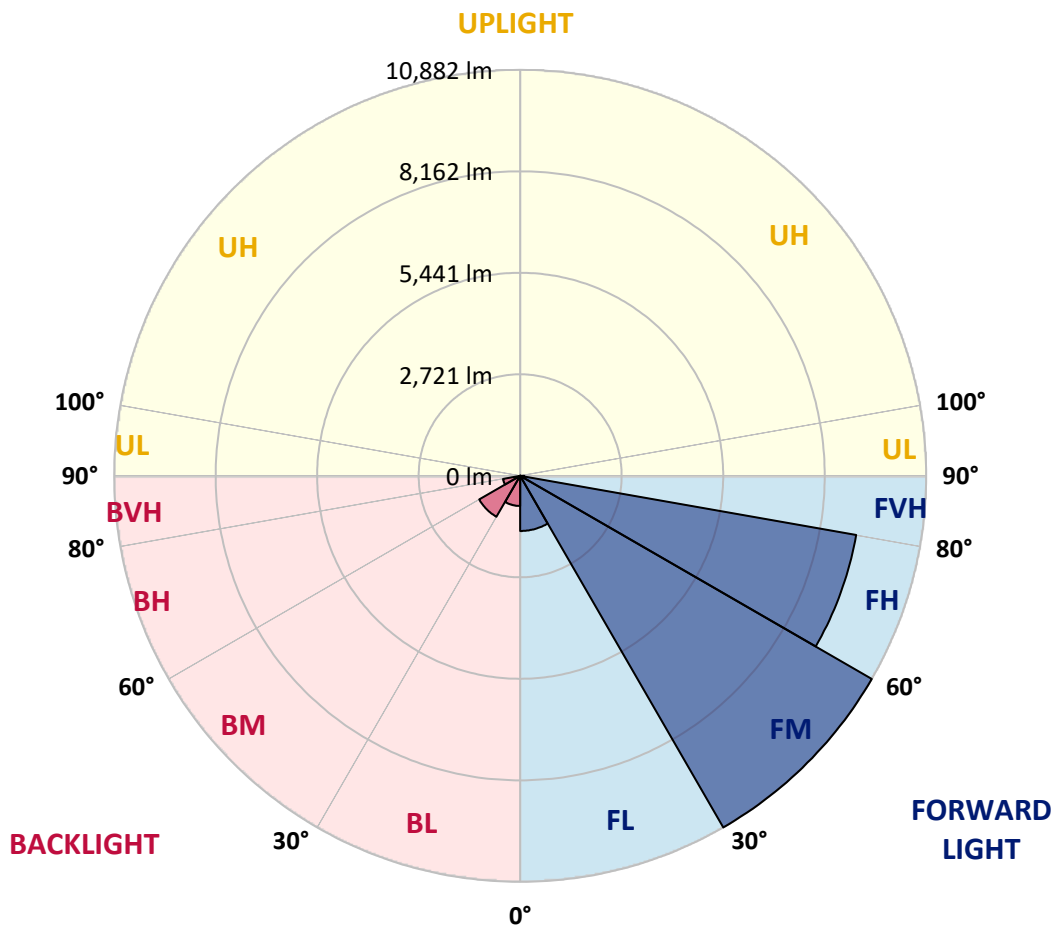
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1479.1	6.1			
FM (30°-60°)	10882.3	45.0			
FH (60°-80°)	9144.5	37.9			G4/12000
FVH (80°-90°)	106.4	0.4			G2/225
BL (0°-30°)	809.1	3.3	B2/1000		
BM (30°-60°)	1267.8	5.2	B2/2500		
BH (60°-80°)	466.9	1.9	B1/500		G1/500
BVH (80°-90°)	2.9	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: P954087

CATALOG NUMBER: GALN-SB7B-940-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4
2.5°	3538.0	3570.0	3565.5	3586.8	3594.4	3625.0	3655.5	3696.7	3742.4	3740.9
5°	3338.1	3370.2	3377.8	3406.8	3443.4	3490.7	3553.3	3635.6	3721.1	3734.8
7.5°	3101.7	3135.2	3155.1	3213.0	3280.2	3377.8	3480.0	3600.5	3742.4	3762.3
10°	2865.2	2895.7	2921.6	3004.0	3110.8	3255.7	3422.0	3596.0	3786.7	3815.7
12.5°	2718.7	2747.7	2776.7	2848.4	2981.1	3158.1	3383.9	3617.3	3859.9	3901.1
15°	2666.8	2692.8	2715.7	2779.7	2903.3	3104.7	3376.3	3661.6	3953.0	4007.9
17.5°	2674.5	2688.2	2703.5	2752.3	2872.8	3080.3	3390.0	3737.9	4062.8	4111.6
20°	2718.7	2726.3	2727.9	2761.4	2868.2	3077.2	3417.5	3811.1	4166.6	4232.2
22.5°	2775.2	2778.2	2775.2	2798.1	2897.2	3100.1	3454.1	3899.6	4282.5	4343.5
25°	3039.1	2981.1	2907.9	2863.7	2946.0	3144.4	3509.0	4018.6	4409.1	4468.6
27.5°	3858.4	3692.1	3429.7	3135.2	3046.7	3208.5	3585.3	4139.1	4537.3	4590.7
30°	5188.8	4970.6	4525.1	3861.4	3370.2	3342.7	3684.5	4259.6	4673.1	4731.1
32.5°	6522.2	6468.8	5954.6	5036.2	4097.9	3641.7	3849.2	4422.9	4853.1	4898.9
35°	7870.9	7762.5	7341.5	6433.7	5219.3	4250.5	4123.8	4636.5	5089.6	5141.5
37.5°	8903.7	8838.1	8577.2	7829.7	6549.6	5190.3	4593.7	4967.5	5432.9	5490.8
40°	9816.1	9785.6	9697.1	9204.3	8037.2	6420.0	5324.5	5480.2	5908.9	5977.5
42.5°	10533.1	10604.8	10655.2	10517.9	9570.4	7823.6	6307.1	6200.3	6572.5	6642.7
45°	11267.0	11291.4	11494.3	11692.6	11093.0	9291.2	7414.7	7043.9	7397.9	7484.9
47.5°	11738.4	11836.0	12193.0	12542.4	12373.1	10746.7	8604.7	8040.2	8354.5	8517.7
50°	11773.5	11958.1	12449.3	13058.1	13305.2	12132.0	9898.4	9175.3	9509.4	9689.4
52.5°	11189.2	11476.0	12237.3	13128.3	13808.7	13305.2	11236.4	10310.4	10739.1	10974.0
55°	8578.8	8954.1	11439.4	12746.8	13828.5	14194.7	12539.4	11492.8	12109.1	12374.6
57.5°	7474.2	7663.4	8993.7	12084.7	13460.9	14553.2	13717.2	12618.7	13599.7	13929.2
60°	6218.6	6467.3	7542.8	11001.5	12962.0	14588.3	14757.7	14071.1	15215.4	15586.1
62.5°	4226.1	4496.1	5565.6	9140.2	12280.0	14571.5	15610.5	15566.3	17011.1	17409.2
65°	2618.0	2787.4	3492.2	7463.5	11326.5	14589.8	16503.0	17381.8	18905.9	19310.2
67.5°	2068.8	2146.6	2514.3	5730.4	9683.3	14177.9	17394.0	19089.0	20689.4	21009.8
70°	1389.9	1437.2	1829.3	3841.6	7204.1	12276.9	17377.2	19946.4	21607.9	21768.0
72.5°	732.3	768.9	1069.5	1778.9	4351.2	8726.7	14647.8	18921.2	20694.0	20452.9
75°	366.2	427.2	720.1	903.2	1858.2	4866.8	9096.0	14917.9	16287.9	15354.2
77.5°	277.7	335.6	595.0	595.0	646.9	1638.6	3852.3	8136.3	7504.7	6249.1
80°	177.0	228.8	520.2	450.1	270.0	416.5	1003.9	2279.3	1594.3	1212.9
82.5°	103.7	149.5	433.3	297.5	151.0	154.1	283.8	485.2	413.5	321.9
85°	41.2	97.6	297.5	117.5	59.5	38.1	85.4	103.7	85.4	64.1
87.5°	0.0	22.9	51.9	0.0	4.6	3.1	6.1	7.6	7.6	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954087
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3768.4	0°	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4
3771.4	2.5°	3785.1	3788.2	3797.4	3798.9	3777.5	3750.1	3739.4	3734.8	3716.5	3715.0
3795.8	5°	3830.9	3844.7	3830.9	3791.3	3696.7	3563.9	3463.2	3380.9	3306.1	3283.2
3879.7	7.5°	3922.5	3936.2	3895.0	3739.4	3501.4	3237.4	2999.4	2831.6	2680.6	2624.1
3982.0	10°	4053.7	4072.0	3942.3	3628.0	3206.9	2782.8	2380.0	2096.2	1875.0	1785.0
4120.8	12.5°	4218.4	4226.1	3968.2	3458.7	2824.0	2218.3	1647.7	1344.1	1147.3	1074.1
4288.6	15°	4400.0	4389.3	3971.3	3228.3	2302.2	1568.4	1075.6	883.4	804.0	779.6
4456.4	17.5°	4590.7	4546.5	3910.3	2895.7	1730.1	1072.5	797.9	752.1	738.4	732.3
4622.7	20°	4778.4	4679.2	3798.9	2460.9	1241.9	801.0	724.7	711.0	703.3	700.3
4790.6	22.5°	4949.2	4779.9	3608.2	1955.9	901.7	707.9	685.0	672.8	659.1	653.0
4953.8	25°	5115.5	4837.9	3339.7	1484.5	721.6	662.1	643.8	620.9	602.6	595.0
5129.3	27.5°	5277.2	4874.5	3004.0	1098.5	643.8	619.4	585.9	553.8	540.1	537.0
5316.9	30°	5449.6	4886.7	2622.6	819.3	596.5	566.0	517.2	480.6	473.0	474.5
5570.2	32.5°	5660.2	4905.0	2238.1	671.3	556.9	501.9	444.0	405.8	399.7	405.8
5939.4	35°	5911.9	4941.6	1867.4	617.9	521.8	436.3	373.8	341.7	335.6	340.2
6412.3	37.5°	6253.7	5001.1	1521.1	607.2	492.8	381.4	314.3	288.3	288.3	289.9
6992.1	40°	6708.3	5159.8	1211.4	599.6	477.5	340.2	265.5	254.8	259.4	262.4
7730.5	42.5°	7262.1	5496.9	1002.4	590.4	460.7	321.9	241.1	236.5	244.1	247.2
8615.4	45°	7883.1	5924.1	929.1	575.2	445.5	334.1	230.4	224.3	233.4	235.0
9607.0	47.5°	8525.4	6342.1	920.0	558.4	430.2	352.4	227.3	213.6	224.3	225.8
10665.9	50°	9175.3	6615.2	929.1	532.5	405.8	352.4	228.8	202.9	212.1	216.6
11764.3	52.5°	9829.8	6740.3	923.0	476.0	363.1	331.1	228.8	193.8	202.9	206.0
12951.3	55°	10464.5	6715.9	830.0	392.1	308.2	292.9	222.7	186.1	192.2	193.8
14072.6	57.5°	10966.4	6375.7	657.6	305.1	250.2	244.1	202.9	177.0	181.6	180.0
15100.9	60°	11228.8	5628.1	469.9	235.0	196.8	192.2	178.5	164.8	167.8	160.2
15972.1	62.5°	11231.9	4639.5	314.3	186.1	157.1	152.6	152.6	148.0	144.9	129.7
16646.4	65°	10992.3	3542.6	209.0	148.0	126.6	119.0	128.2	126.6	115.9	94.6
16852.4	67.5°	10449.2	2322.0	158.7	115.9	97.6	93.1	102.2	106.8	99.2	79.3
16101.8	70°	9332.4	1351.7	131.2	90.0	73.2	68.7	82.4	91.5	82.4	64.1
13762.9	72.5°	7751.9	729.3	106.8	67.1	50.3	45.8	65.6	74.8	65.6	47.3
8830.5	75°	5030.1	390.6	82.4	44.2	25.9	29.0	48.8	54.9	45.8	30.5
2592.1	77.5°	1688.9	172.4	51.9	21.4	12.2	12.2	29.0	33.6	21.4	10.7
471.4	80°	376.8	71.7	21.4	9.2	4.6	4.6	6.1	6.1	3.1	0.0
144.9	82.5°	123.6	29.0	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
36.6	85°	47.3	10.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.2	87.5°	18.3	1.5	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

180°
3768.4
3718.0
3269.5
2601.2
1746.9
1051.2
779.6
730.8
697.2
651.5
592.0
534.0
474.5
404.3
338.7
288.3
262.4
247.2
236.5
227.3
218.2
206.0
193.8
180.0
158.7
125.1
91.5
77.8
61.0
45.8
27.5
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