

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: P944478

Luminaire Tested: **GALN-SB9B-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28140 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

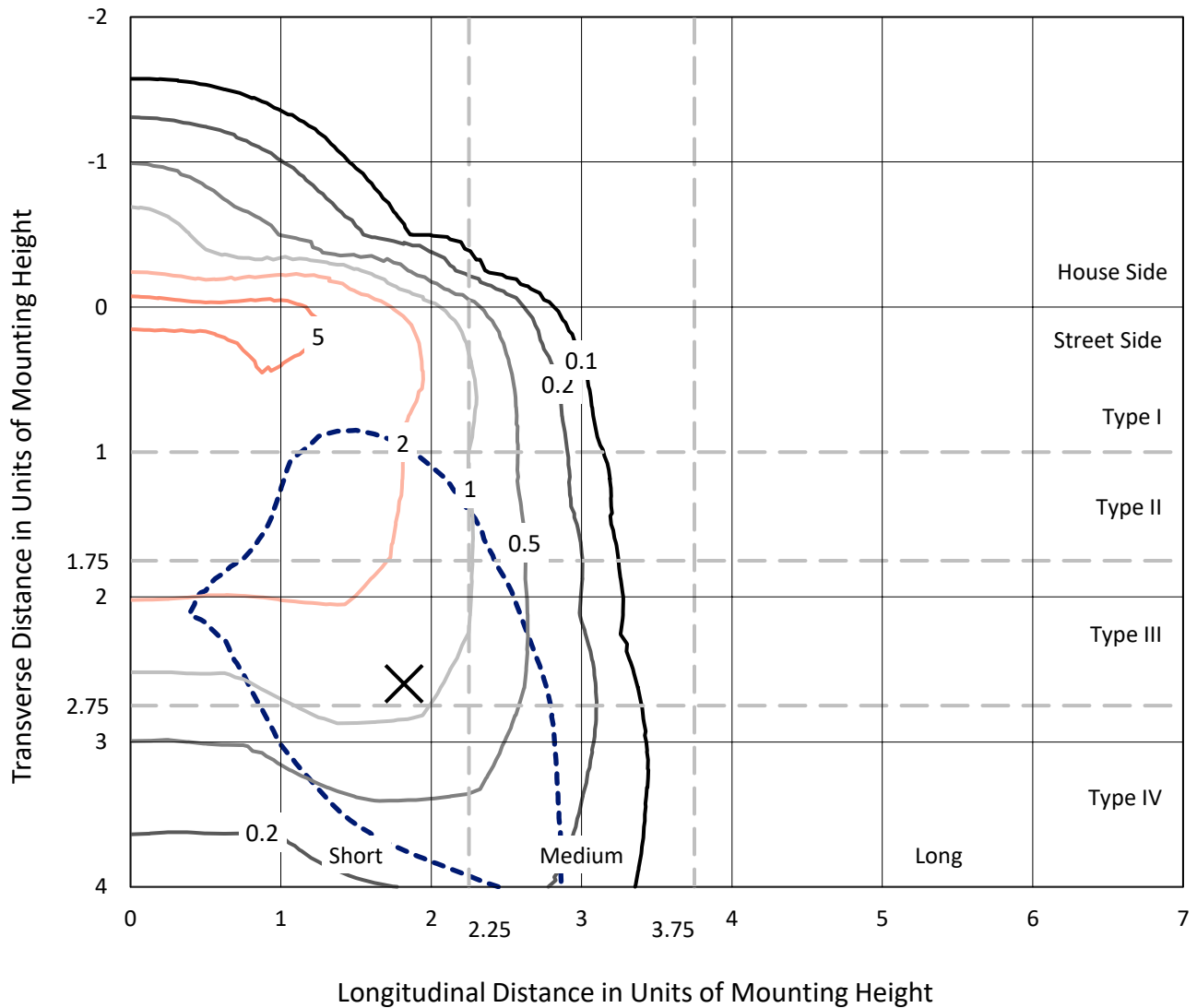
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

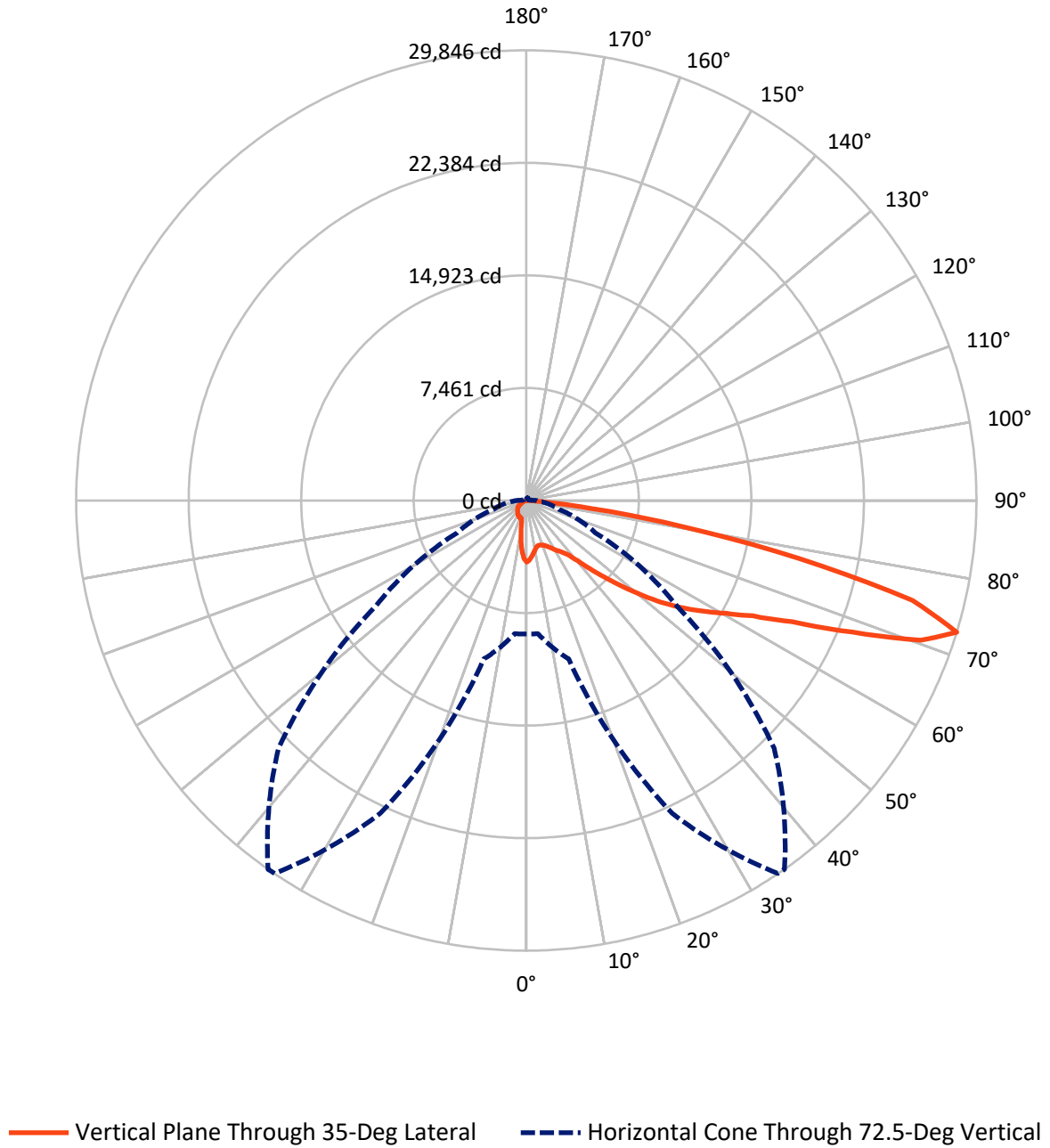
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3167.0	0.0	3167.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	24973.0	0.0	24973.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	28140.0	0.0	28140.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.1	1.2
10°-20°	784.0	2.8
20°-30°	1273.6	4.5
30°-40°	2125.0	7.6
40°-50°	4020.6	14.3
50°-60°	6388.7	22.7
60°-70°	7903.2	28.1
70°-80°	4912.7	17.5
80°-90°	397.0	1.4
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°	28140.0	100.0
0°-180°	28140.0	100.0



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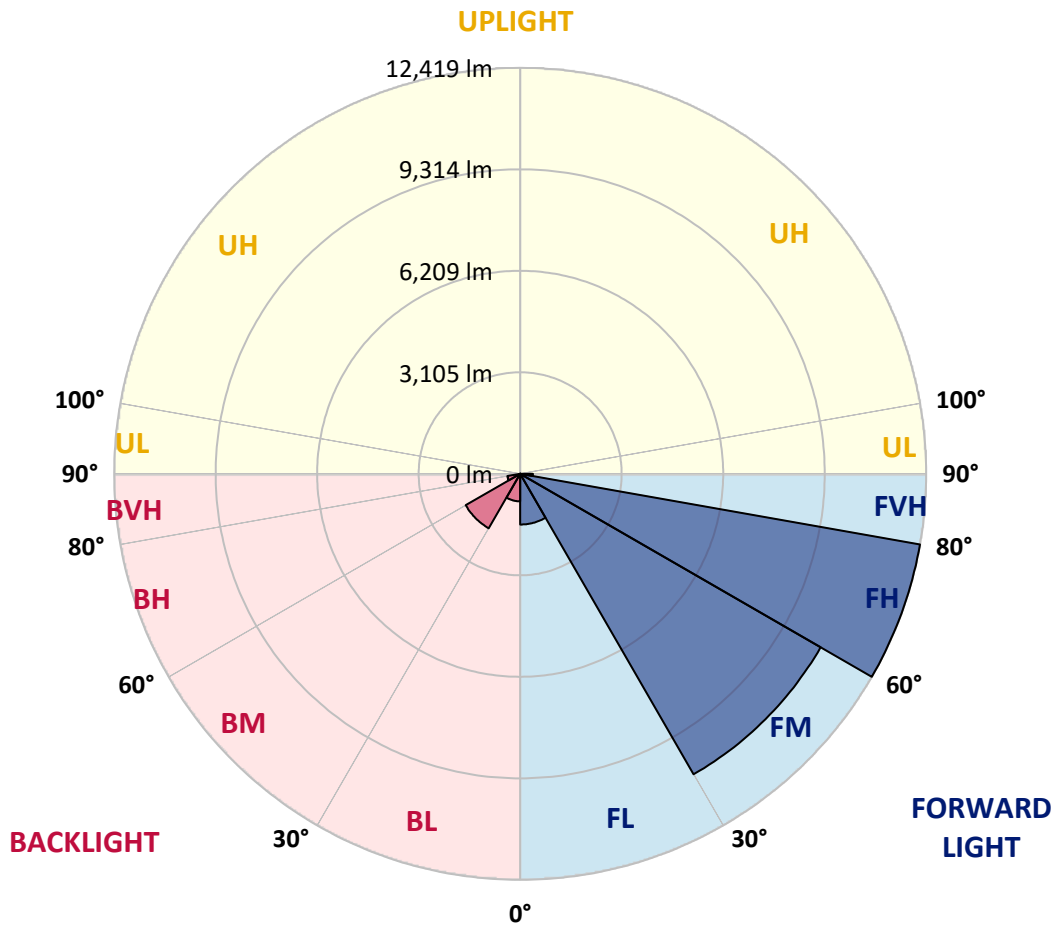
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1551.2	5.5			
FM (30°-60°)	10611.6	37.7			
FH (60°-80°)	12418.5	44.1			G5
FVH (80°-90°)	391.6	1.4			G3/500
BL (0°-30°)	841.5	3.0	B2/1000		
BM (30°-60°)	1922.7	6.8	B2/2500		
BH (60°-80°)	397.4	1.4	B1/500		G1/500
BVH (80°-90°)	5.4	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4
2.5°	3897.0	3930.0	3936.2	3946.5	3946.5	3958.8	3979.5	4008.3	4055.7	4080.5
5°	3591.8	3616.6	3647.5	3672.2	3719.7	3725.8	3806.3	3884.6	3993.9	4076.4
7.5°	3284.6	3313.5	3354.7	3414.5	3476.4	3494.9	3616.6	3748.5	3921.7	4076.4
10°	3068.1	3070.2	3107.3	3167.1	3266.0	3288.7	3437.2	3624.8	3841.3	4051.6
12.5°	2946.4	2960.9	2977.4	3022.7	3117.6	3132.0	3290.8	3511.4	3760.9	4037.2
15°	2946.4	2956.8	2967.1	2989.7	3066.0	3078.4	3218.6	3439.2	3719.7	4043.4
17.5°	2977.4	2993.9	2985.6	3012.4	3092.8	3101.1	3224.8	3418.6	3717.6	4082.6
20°	3051.6	3064.0	3047.5	3064.0	3144.4	3160.9	3288.7	3457.8	3752.6	4150.6
22.5°	3169.1	3175.3	3136.1	3148.5	3231.0	3251.6	3400.1	3569.1	3837.2	4259.9
25°	3317.6	3330.0	3270.2	3284.6	3363.0	3387.7	3558.8	3736.2	3971.2	4410.4
27.5°	3488.7	3494.9	3443.4	3441.3	3542.3	3577.4	3750.6	3942.3	4150.6	4600.1
30°	3684.6	3703.2	3653.7	3645.4	3773.3	3802.1	3973.3	4196.0	4414.5	4884.6
32.5°	3839.2	3853.7	3824.8	3845.4	3975.3	3998.0	4243.4	4554.7	4829.0	5288.8
35°	4061.9	4070.2	4004.2	4041.3	4189.8	4247.5	4612.5	5057.8	5350.6	5796.0
37.5°	4868.1	4868.1	4587.7	4404.2	4546.5	4598.0	5117.6	5690.8	5993.9	6476.4
40°	5983.6	5965.1	5554.7	5179.5	5160.9	5262.0	5837.2	6488.8	6824.9	7292.9
42.5°	7173.3	7144.5	6585.7	6214.6	6152.7	6187.7	6668.2	7472.3	7814.6	8288.8
45°	8229.0	8220.8	7709.4	7210.4	7099.1	7210.4	7705.3	8622.8	8868.2	9367.2
47.5°	9113.6	9113.6	8740.4	8414.6	8356.9	8422.8	9109.5	9899.2	9876.5	10515.7
50°	10132.2	10123.9	9769.3	9629.1	9688.8	9781.6	10726.0	11243.5	10919.8	11643.5
52.5°	10845.6	10895.1	10773.4	10750.7	11055.9	11216.7	12367.2	12559.0	11853.8	12713.6
55°	11410.5	11468.3	11608.5	11767.2	12354.9	12565.2	13957.0	13806.5	12635.3	13641.5
57.5°	12210.5	12128.1	12344.6	12658.0	13608.5	13862.1	15497.2	14983.8	13264.2	14394.1
60°	13181.7	13194.1	13231.2	13627.1	14860.1	15185.9	17014.8	16097.2	13668.3	14856.0
62.5°	14348.7	14367.3	14443.6	15051.8	16540.5	16847.7	18631.3	17008.6	13853.9	14726.1
65°	14268.3	14346.7	15198.2	17278.7	19095.2	19398.3	20517.9	17647.8	13573.5	13538.4
67.5°	12998.2	13126.0	14550.8	19938.5	22946.8	23285.0	22798.4	17773.5	12363.1	10528.0
70°	11332.2	11377.5	13091.0	22330.3	27406.7	27749.0	24839.7	16390.0	9381.6	5872.3
72.5°	8849.7	8860.0	10870.3	22885.0	29827.4	29845.9	23237.6	12167.2	5045.5	2255.7
75°	6321.8	6259.9	7280.6	18559.1	26241.7	26452.1	17421.0	5707.3	1927.9	1066.0
77.5°	3389.8	3457.8	4119.7	11006.4	18128.2	18487.0	9505.3	1645.4	981.5	725.8
80°	1047.4	1105.2	1688.7	5039.3	10268.2	10484.7	3523.8	732.0	684.5	517.5
82.5°	329.9	342.3	787.6	2117.6	4261.9	4360.9	1020.6	414.4	468.1	342.3
85°	94.8	96.9	350.5	789.7	1053.6	1074.2	286.6	160.8	268.0	212.4
87.5°	10.3	33.0	132.0	132.0	92.8	90.7	30.9	35.1	76.3	26.8
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°
4078.4	0°	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4
4097.0	2.5°	4086.7	4088.7	4061.9	4016.6	3967.1	3925.8	3874.3	3833.1	3804.2	3795.9
4134.1	5°	4115.5	4101.1	4024.8	3886.7	3721.7	3579.5	3420.7	3294.9	3212.4	3177.4
4173.3	7.5°	4158.8	4117.6	3950.6	3678.4	3363.0	3082.5	2798.0	2577.4	2437.2	2367.1
4210.4	10°	4196.0	4113.5	3826.9	3377.4	2894.9	2470.2	2086.6	1820.7	1672.2	1602.1
4253.7	12.5°	4231.0	4111.4	3666.1	3020.7	2367.1	1847.5	1490.8	1358.8	1317.6	1303.1
4323.8	15°	4297.0	4117.6	3464.0	2612.4	1841.3	1395.9	1266.0	1263.9	1272.2	1268.1
4431.0	17.5°	4387.7	4123.8	3235.1	2179.4	1420.6	1231.0	1224.8	1243.3	1255.7	1249.5
4565.0	20°	4505.2	4148.5	2991.8	1750.5	1220.6	1189.7	1204.1	1220.6	1231.0	1220.6
4744.4	22.5°	4670.2	4191.8	2725.8	1406.2	1156.7	1165.0	1177.3	1195.9	1206.2	1191.8
4973.3	25°	4872.3	4259.9	2464.0	1222.7	1125.8	1136.1	1154.7	1175.3	1187.7	1173.2
5262.0	27.5°	5134.1	4369.2	2222.7	1181.5	1094.9	1101.1	1127.9	1158.8	1175.3	1156.7
5672.3	30°	5513.5	4548.5	2014.5	1200.0	1076.3	1061.9	1099.0	1142.3	1160.8	1144.4
6231.0	32.5°	6016.6	4802.2	1886.6	1228.9	1068.1	1016.5	1051.6	1107.2	1138.2	1127.9
6961.0	35°	6676.4	5187.7	1837.1	1261.9	1061.9	969.1	993.8	1053.6	1107.2	1117.5
7880.6	37.5°	7476.4	5723.8	1851.6	1276.3	1043.3	929.9	942.3	993.8	1063.9	1096.9
8915.6	40°	8385.7	6348.6	1934.1	1261.9	1022.7	896.9	899.0	938.2	1000.0	1049.5
10029.1	42.5°	9323.9	7078.5	2086.6	1208.3	1004.1	868.1	861.9	888.7	929.9	965.0
11140.4	45°	10216.7	7829.0	2237.2	1134.0	981.5	839.2	824.8	835.1	843.3	857.7
12222.9	47.5°	10996.1	8356.9	2193.9	1066.0	950.5	806.2	781.5	777.3	752.6	750.5
13189.9	50°	11534.2	8472.3	1948.5	998.0	905.2	769.1	729.9	705.2	661.9	641.2
13913.7	52.5°	11705.4	8016.7	1591.8	929.9	830.9	719.6	663.9	624.8	571.1	552.6
14330.2	55°	11478.6	7123.8	1272.2	847.4	727.8	653.6	591.8	540.2	496.9	474.2
14375.5	57.5°	10923.9	5987.7	1006.2	750.5	618.6	579.4	517.5	466.0	428.9	406.2
13872.4	60°	10004.3	4754.7	795.9	635.1	527.8	499.0	435.1	402.1	369.1	342.3
12573.4	62.5°	8608.4	3393.9	624.8	503.1	441.2	408.3	371.1	346.4	307.2	270.1
10237.3	65°	6717.7	2076.3	482.5	369.1	354.6	338.2	315.5	292.8	245.4	208.3
6678.5	67.5°	4237.2	983.5	344.3	278.4	280.4	272.2	261.9	243.3	208.3	175.3
2991.8	70°	1866.0	476.3	226.8	212.4	208.3	208.3	216.5	210.3	177.3	146.4
1039.2	72.5°	635.1	255.7	169.1	160.8	150.5	148.5	181.4	175.3	142.3	113.4
517.5	75°	332.0	171.1	123.7	115.5	90.7	109.3	144.3	136.1	101.0	74.2
342.3	77.5°	216.5	121.7	84.5	74.2	51.5	72.2	107.2	94.8	59.8	37.1
224.7	80°	136.1	80.4	49.5	35.1	24.7	39.2	57.7	41.2	22.7	8.2
132.0	82.5°	72.2	41.2	18.6	12.4	10.3	12.4	14.4	10.3	4.1	0.0
68.0	85°	28.9	14.4	6.2	4.1	2.1	0.0	4.1	2.1	0.0	0.0
12.4	87.5°	10.3	2.1	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>
4078.4
3810.4
3189.8
2377.4
1604.2
1299.0
1266.0
1247.4
1218.6
1189.7
1171.2
1156.7
1142.3
1127.9
1117.5
1105.2
1066.0
979.4
866.0
748.5
643.3
550.5
474.2
402.1
336.1
263.9
202.1
171.1
140.2
107.2
68.0
33.0
6.2
0.0
0.0
0.0
0.0

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