

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: P951943

Luminaire Tested: **GALN-SB5D-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28467 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

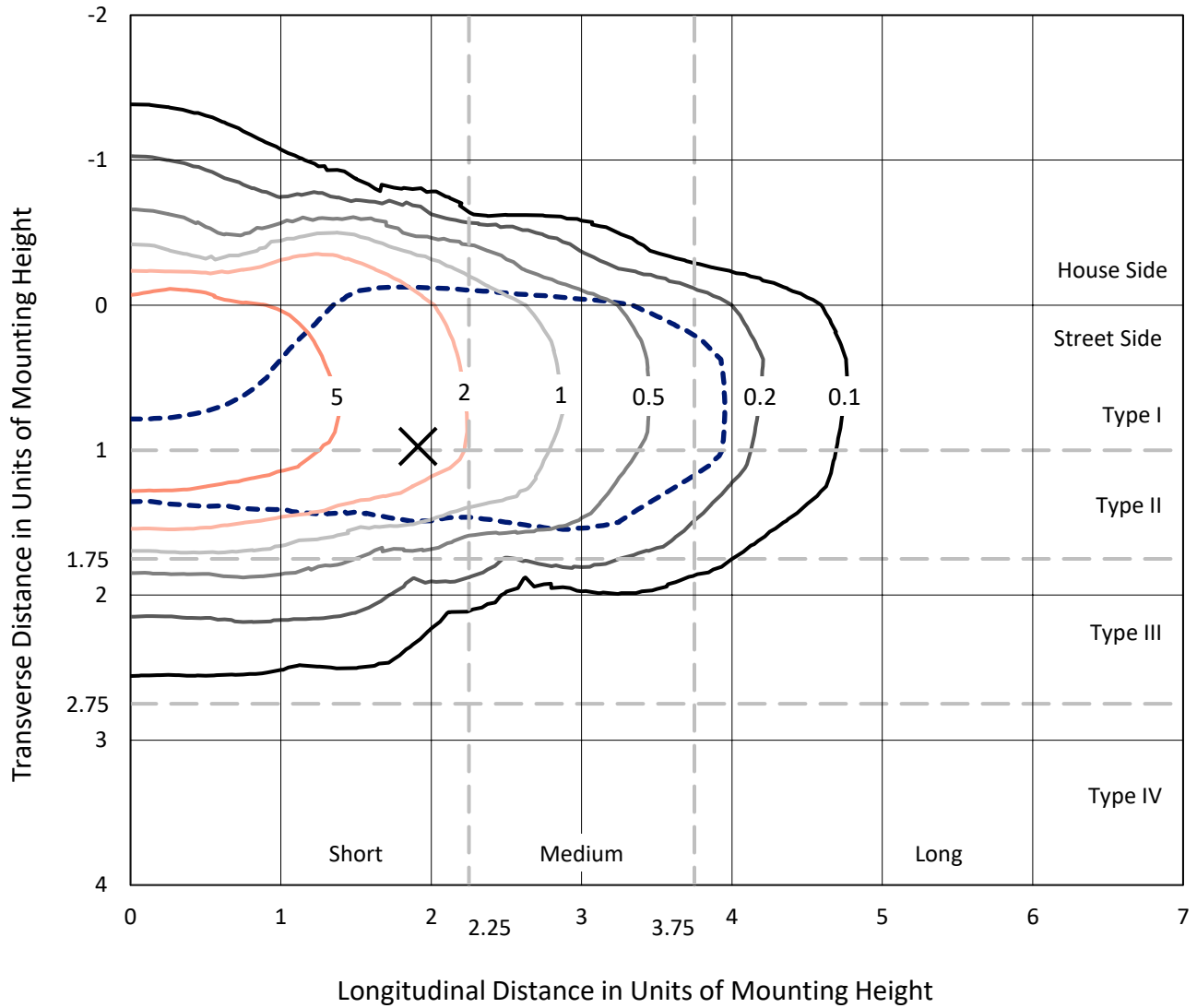
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

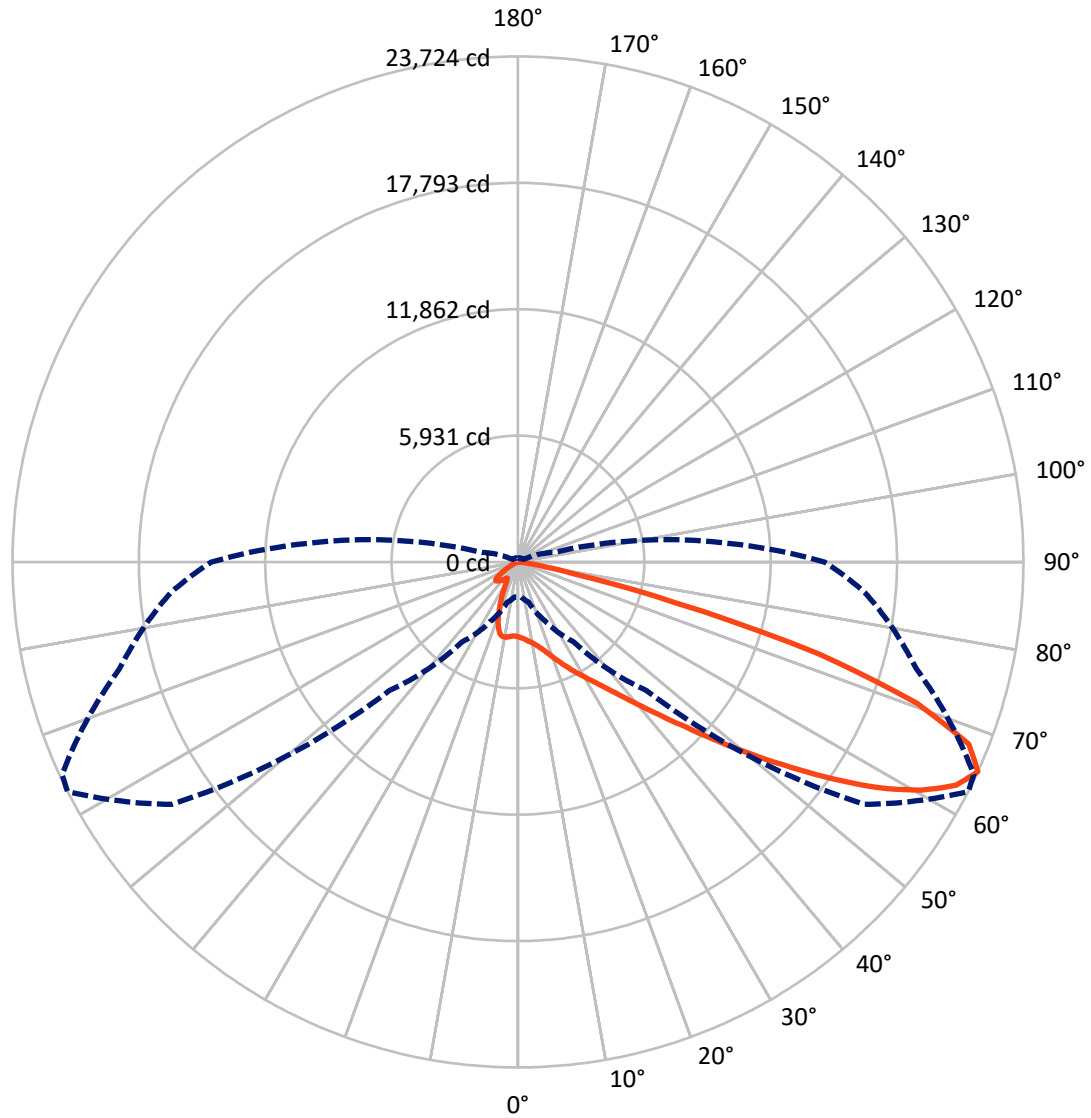
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4184.4	0.0	4184.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	24282.6	0.0	24282.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	28467.0	0.0	28467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.0	1.2
10°-20°	918.5	3.2
20°-30°	1599.3	5.6
30°-40°	2882.6	10.1
40°-50°	5717.0	20.1
50°-60°	7787.6	27.4
60°-70°	6216.0	21.8
70°-80°	2812.9	9.9
80°-90°	202.2	0.7
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°	28467.0	100.0
0°-180°	28467.0	100.0

Coefficient of Utilization

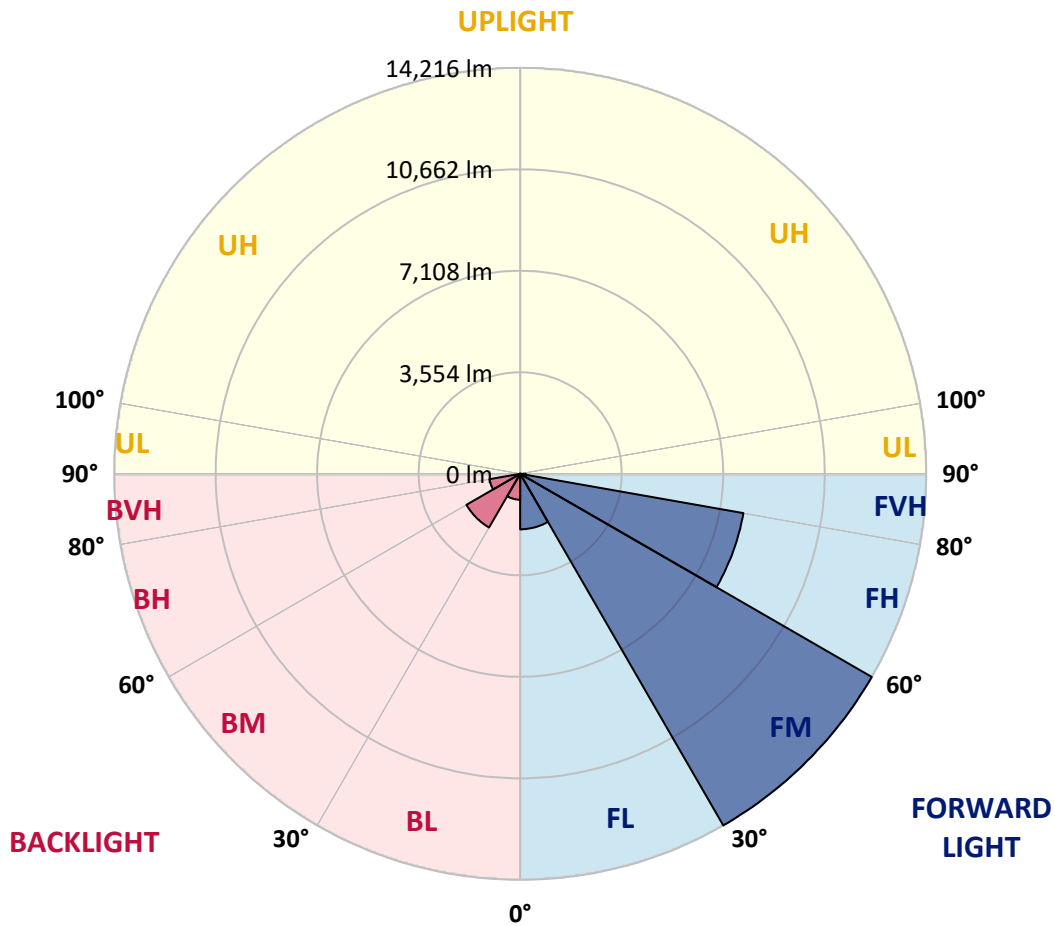


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1943.2	6.8			
FM (30°-60°)	14215.7	49.9			
FH (60°-80°)	7936.5	27.9			G4/12000
FVH (80°-90°)	187.2	0.7			G2/225
BL (0°-30°)	905.6	3.2	B2/1000		
BM (30°-60°)	2171.5	7.6	B2/2500		
BH (60°-80°)	1092.4	3.8	B3/2500		G3/2500
BVH (80°-90°)	15.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4
2.5°	3595.6	3585.8	3599.5	3593.7	3589.7	3581.9	3578.0	3574.1	3566.2	3560.4
5°	3605.4	3599.5	3613.2	3625.0	3636.7	3648.5	3654.4	3662.2	3654.4	3638.7
7.5°	3523.2	3519.2	3548.6	3583.9	3636.7	3681.8	3730.7	3758.2	3760.1	3754.2
10°	3517.3	3507.5	3536.9	3580.0	3648.5	3728.8	3815.0	3873.7	3881.5	3907.0
12.5°	3609.3	3599.5	3640.7	3687.7	3758.2	3842.4	3948.1	4030.4	4042.1	4077.4
15°	3764.0	3750.3	3797.3	3858.0	3948.1	4044.1	4155.7	4230.1	4239.9	4283.0
17.5°	3944.2	3930.5	3985.3	4050.0	4147.9	4279.1	4408.4	4490.6	4502.4	4529.8
20°	4175.3	4157.7	4200.8	4259.5	4363.3	4520.0	4674.7	4792.2	4790.2	4790.2
22.5°	4443.6	4416.2	4453.4	4500.4	4598.3	4788.3	4993.9	5133.0	5133.0	5078.1
25°	4731.5	4704.1	4745.2	4788.3	4874.5	5089.9	5330.8	5503.1	5510.9	5416.9
27.5°	5091.8	5056.6	5087.9	5138.8	5189.8	5409.1	5695.0	5894.8	5898.7	5753.8
30°	5785.1	5685.2	5587.3	5532.5	5556.0	5773.4	6078.9	6300.2	6319.7	6120.0
32.5°	7054.1	7034.6	6689.9	6239.5	6004.4	6165.0	6507.8	6774.1	6785.8	6529.3
35°	9026.3	9002.8	8448.5	7590.7	6825.0	6689.9	7028.7	7344.0	7336.2	7046.3
37.5°	11380.2	11358.7	10628.2	9480.6	8240.9	7483.0	7700.4	8031.4	8080.3	7700.4
40°	13391.5	13311.2	12849.0	11742.6	10121.0	8799.1	8656.1	8875.5	8926.4	8475.9
42.5°	14915.2	14846.6	14611.6	13920.3	12396.7	10745.7	9782.2	9866.4	9923.2	9382.7
45°	15704.4	15688.7	15782.7	15718.1	14715.4	13135.0	11392.0	11041.4	11063.0	10387.3
47.5°	15816.0	15808.2	16237.1	16844.2	16709.1	15829.7	13458.1	12506.3	12430.0	11521.3
50°	15158.0	15142.3	15964.9	17102.7	18040.8	18093.6	15804.3	14157.3	13988.8	12694.3
52.5°	13056.6	13052.7	14404.0	16297.8	18508.8	20075.5	18123.0	15970.7	15688.7	13936.0
55°	10046.6	10119.0	11668.1	13906.6	17655.0	21029.3	20204.8	17984.0	17551.2	15185.4
57.5°	7116.8	7222.6	8754.0	10747.7	15007.2	20465.3	21612.9	20001.1	19535.0	16431.0
60°	3822.8	3916.8	5450.2	7829.7	11164.8	18361.9	22355.1	21751.9	21311.3	17613.8
62.5°	2277.6	2309.0	2943.5	5054.6	7551.6	14028.0	22039.8	23085.6	22723.3	18606.7
65°	1635.3	1641.1	1960.4	3086.4	4584.6	8522.9	19828.8	23724.0	23612.4	19354.8
67.5°	1376.8	1372.8	1506.0	2050.4	3123.6	4269.3	15197.2	22821.2	23295.1	19828.8
70°	1180.9	1186.8	1343.5	1502.1	2348.1	2416.7	7555.5	19869.9	20880.4	19954.1
72.5°	879.3	898.9	1043.8	1368.9	1772.4	1662.7	2608.6	14733.0	16560.2	18800.6
75°	620.8	630.6	734.4	1151.5	1321.9	1210.3	1331.7	7616.2	9958.5	14413.8
77.5°	477.8	495.5	556.2	804.9	1302.3	849.9	814.7	2636.0	4050.0	8707.0
80°	258.5	289.8	401.5	581.6	914.6	601.2	403.4	1049.7	1372.8	4071.5
82.5°	133.2	148.8	280.1	419.1	520.9	524.9	199.8	436.7	566.0	1257.3
85°	52.9	64.6	188.0	231.1	268.3	258.5	90.1	176.3	203.7	348.6
87.5°	11.8	19.6	68.5	52.9	50.9	54.8	21.5	41.1	39.2	41.1
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°
3513.4	0°	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4
3536.9	2.5°	3534.9	3527.1	3505.5	3482.0	3454.6	3438.9	3429.2	3427.2	3413.5	3403.7
3615.2	5°	3593.7	3585.8	3544.7	3495.7	3442.9	3401.7	3362.6	3327.3	3276.4	3266.6
3728.8	7.5°	3711.2	3689.6	3623.0	3556.5	3456.6	3337.1	3192.2	3025.7	2876.9	2831.8
3879.6	10°	3856.1	3826.7	3742.5	3625.0	3403.7	3078.6	2728.0	2403.0	2144.4	2072.0
4057.8	12.5°	4020.6	3995.1	3883.5	3666.1	3182.4	2592.9	2056.3	1652.9	1402.2	1339.5
4247.8	15°	4216.4	4179.2	4024.5	3603.5	2786.8	1970.1	1412.0	1173.1	1083.0	1071.2
4465.1	17.5°	4424.0	4363.3	4149.8	3378.2	2254.1	1400.3	1090.8	1022.3	983.1	971.4
4684.5	20°	4614.0	4535.6	4224.3	3037.5	1684.2	1090.8	977.2	932.2	896.9	883.2
4903.8	22.5°	4803.9	4692.3	4224.3	2573.3	1263.2	967.4	896.9	855.8	814.7	797.1
5138.8	25°	5001.7	4852.9	4149.8	2056.3	1016.4	887.2	820.6	775.5	740.3	718.7
5362.1	27.5°	5193.7	4988.0	3979.5	1566.7	904.8	816.7	750.1	707.0	673.7	658.0
5604.9	30°	5375.8	5121.2	3740.5	1188.7	832.3	748.1	685.4	648.2	614.9	599.3
5920.2	32.5°	5622.6	5289.6	3485.9	975.3	769.7	683.5	626.7	591.4	562.1	550.3
6329.5	35°	5965.3	5538.3	3266.6	957.7	716.8	630.6	573.8	540.5	511.1	501.3
6858.3	37.5°	6451.0	5939.8	3151.1	1075.2	673.7	583.6	530.7	495.5	468.1	460.2
7530.0	40°	7050.2	6484.3	3213.7	1192.7	644.3	542.5	491.6	456.3	432.8	423.0
8301.6	42.5°	7761.1	7156.0	3560.4	1282.8	624.7	507.2	454.3	415.2	399.5	395.6
9177.1	45°	8577.8	7894.3	4091.1	1378.7	593.4	473.9	417.1	387.8	376.0	374.1
10128.8	47.5°	9506.1	8705.1	4706.0	1498.2	562.1	442.6	387.8	368.2	358.4	354.5
11121.7	50°	10426.5	9521.7	5338.6	1564.8	536.6	413.2	364.3	348.6	340.8	338.8
12171.4	52.5°	11390.0	10361.9	5849.7	1502.1	515.1	389.7	344.7	332.9	325.1	323.1
13138.9	55°	12308.5	11041.4	5937.9	1274.9	472.0	366.2	323.1	317.3	307.5	307.5
14120.0	57.5°	13099.7	11382.2	5315.1	936.1	428.9	331.0	301.6	295.7	287.9	285.9
15005.2	60°	13826.3	11284.3	4102.8	630.6	381.9	295.7	274.2	270.3	262.4	252.6
15774.9	62.5°	14235.6	10853.4	2806.4	411.3	334.9	258.5	242.8	240.9	223.3	203.7
16344.8	65°	14390.3	9968.2	1750.8	299.6	280.1	221.3	209.5	205.6	180.2	158.6
16667.9	67.5°	14255.2	8511.2	883.2	237.0	221.3	184.1	172.3	172.3	154.7	135.1
16648.3	70°	13714.7	6380.5	372.1	190.0	170.4	141.0	141.0	148.8	131.2	109.7
15784.7	72.5°	12541.6	4292.8	197.8	144.9	127.3	99.9	115.5	121.4	103.8	82.3
12919.6	75°	9970.2	2618.4	137.1	107.7	80.3	70.5	88.1	92.0	70.5	54.8
8857.8	77.5°	6819.1	1504.0	92.0	68.5	50.9	41.1	60.7	56.8	37.2	25.5
3415.4	80°	2994.4	626.7	52.9	31.3	19.6	15.7	21.5	15.7	11.8	7.8
468.1	82.5°	350.6	146.9	19.6	11.8	7.8	3.9	2.0	0.0	0.0	0.0
143.0	85°	72.5	17.6	9.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0
25.5	87.5°	13.7	3.9	2.0	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>
3513.4
3413.5
3262.7
2810.3
2044.6
1321.9
1059.5
965.5
875.4
787.3
710.9
658.0
601.2
550.3
501.3
458.3
421.1
395.6
372.1
354.5
338.8
323.1
305.5
284.0
250.7
199.8
156.7
133.2
107.7
82.3
52.9
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