

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: P941298

Luminaire Tested: **GALN-SB4D-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941298
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-SB4D-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 900mA 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: 30879 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

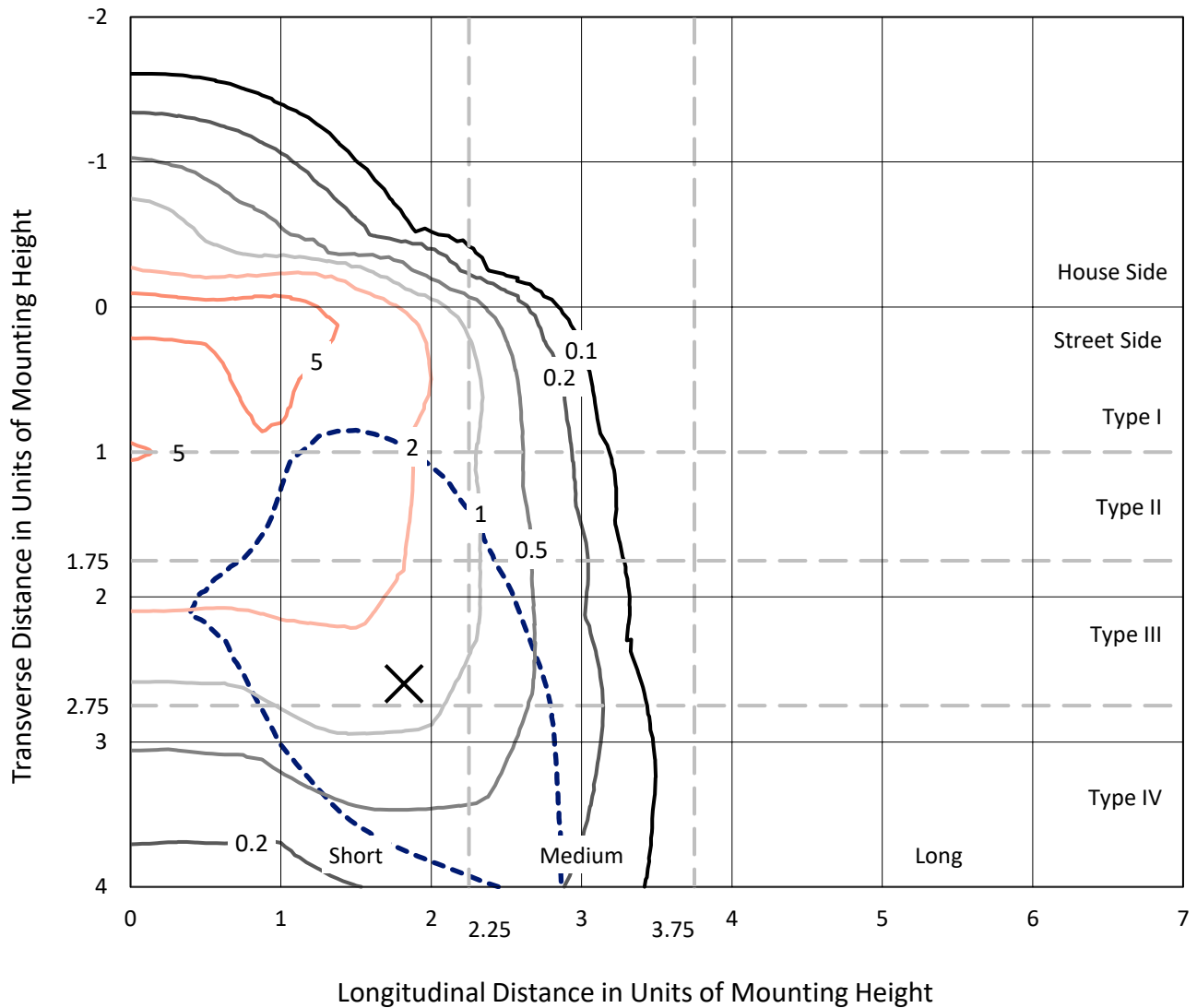
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

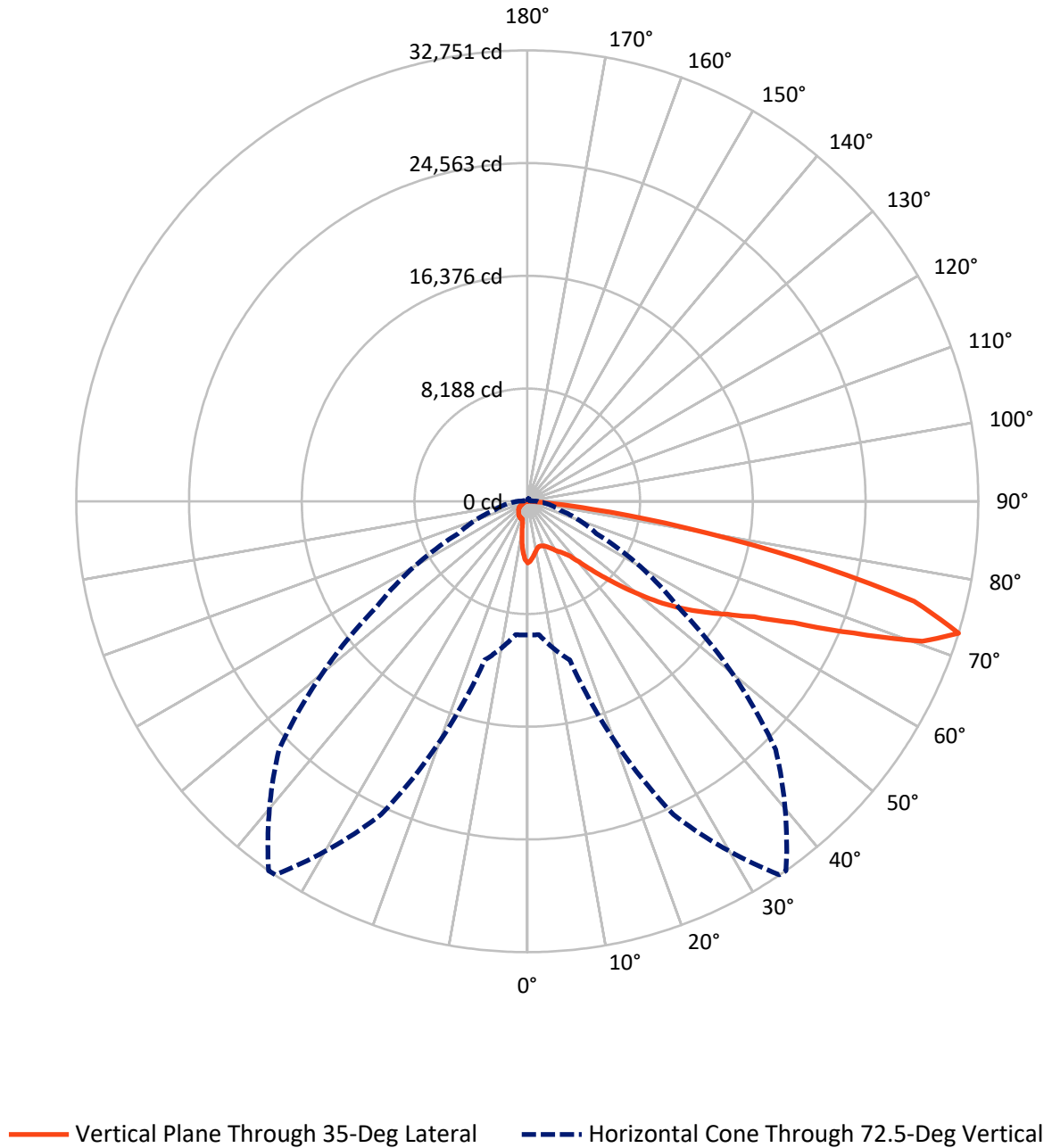
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GALN-SB4D-735-U-T4FT-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3475.3	0.0	3475.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	27403.7	0.0	27403.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	30879.0	0.0	30879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.8	1.2
10°-20°	860.3	2.8
20°-30°	1397.6	4.5
30°-40°	2331.8	7.6
40°-50°	4411.9	14.3
50°-60°	7010.5	22.7
60°-70°	8672.5	28.1
70°-80°	5390.9	17.5
80°-90°	435.7	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°	30879.0	100.0
0°-180°	30879.0	100.0

Coefficient of Utilization



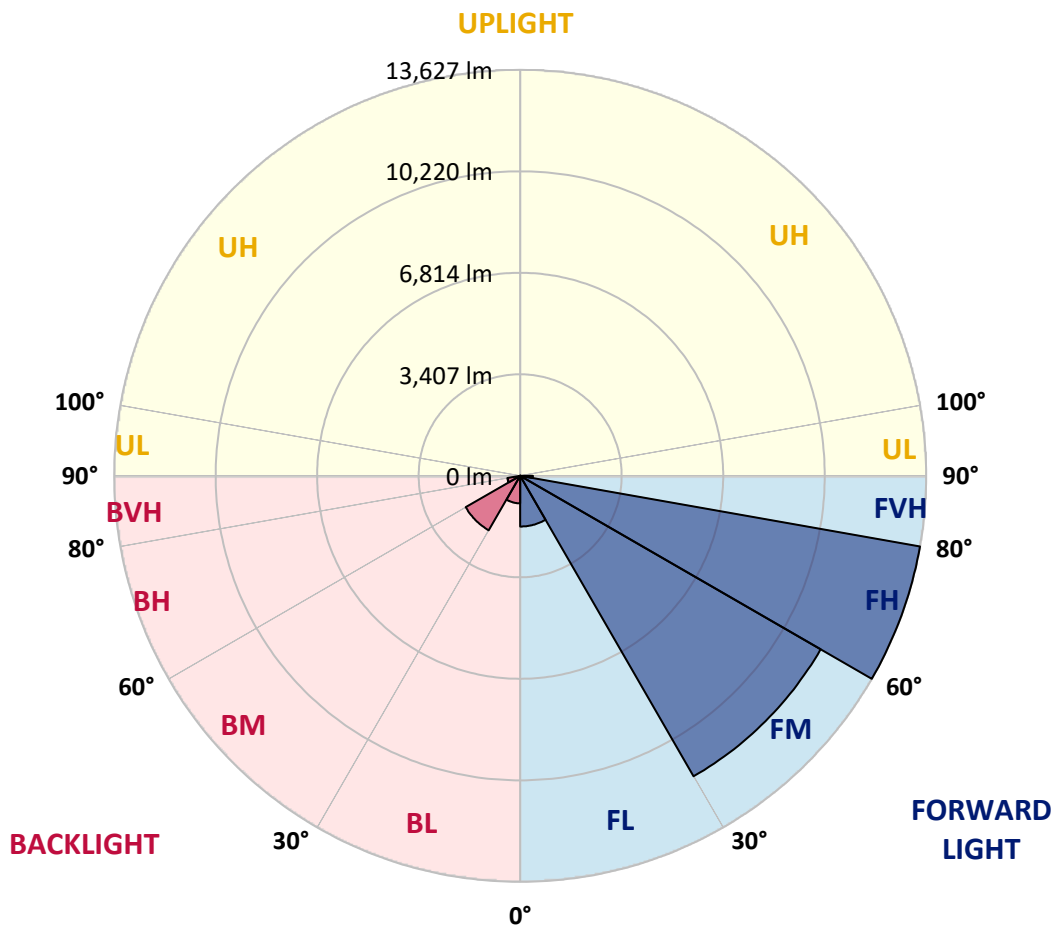
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1702.2	5.5			
FM (30°-60°)	11644.5	37.7			
FH (60°-80°)	13627.3	44.1			G5
FVH (80°-90°)	429.7	1.4			G3/500
BL (0°-30°)	923.5	3.0	B2/1000		
BM (30°-60°)	2109.8	6.8	B2/2500		
BH (60°-80°)	436.1	1.4	B1/500		G1/500
BVH (80°-90°)	5.9	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4
2.5°	4276.3	4312.5	4319.3	4330.6	4330.6	4344.2	4366.8	4398.5	4450.5	4477.7
5°	3941.4	3968.6	4002.5	4029.7	4081.7	4088.5	4176.7	4262.7	4382.6	4473.1
7.5°	3604.3	3636.0	3681.2	3746.8	3814.7	3835.1	3968.6	4113.4	4303.4	4473.1
10°	3366.7	3369.0	3409.7	3475.3	3583.9	3608.8	3771.7	3977.6	4215.2	4446.0
12.5°	3233.2	3249.1	3267.2	3317.0	3421.0	3436.9	3611.1	3853.2	4127.0	4430.2
15°	3233.2	3244.6	3255.9	3280.8	3364.5	3378.0	3531.9	3774.0	4081.7	4436.9
17.5°	3267.2	3285.3	3276.2	3305.6	3393.9	3402.9	3538.7	3751.4	4079.4	4479.9
20°	3348.6	3362.2	3344.1	3362.2	3450.4	3468.5	3608.8	3794.4	4117.9	4554.6
22.5°	3477.6	3484.4	3441.4	3455.0	3545.5	3568.1	3731.0	3916.5	4210.7	4674.5
25°	3640.5	3654.1	3588.5	3604.3	3690.3	3717.4	3905.2	4099.8	4357.7	4839.7
27.5°	3828.3	3835.1	3778.5	3776.3	3887.1	3925.6	4115.7	4326.1	4554.6	5047.8
30°	4043.2	4063.6	4009.3	4000.3	4140.5	4172.2	4360.0	4604.4	4844.2	5360.1
32.5°	4212.9	4228.8	4197.1	4219.7	4362.3	4387.2	4656.4	4998.1	5299.0	5803.5
35°	4457.3	4466.4	4393.9	4434.7	4597.6	4660.9	5061.4	5550.1	5871.4	6360.1
37.5°	5342.0	5342.0	5034.3	4832.9	4989.0	5045.6	5615.7	6244.7	6577.3	7106.8
40°	6566.0	6545.7	6095.4	5683.6	5663.3	5774.1	6405.4	7120.4	7489.2	8002.8
42.5°	7871.5	7839.9	7226.7	6819.4	6751.6	6790.0	7317.2	8199.6	8575.2	9095.6
45°	9030.0	9020.9	8459.8	7912.3	7790.1	7912.3	8455.3	9462.2	9731.4	10278.9
47.5°	10000.6	10000.6	9591.1	9233.6	9170.3	9242.7	9996.1	10862.7	10837.8	11539.2
50°	11118.4	11109.3	10720.1	10566.3	10631.9	10733.7	11770.0	12337.9	11982.7	12776.8
52.5°	11901.2	11955.5	11822.0	11797.1	12132.0	12308.5	13571.0	13781.4	13007.6	13951.1
55°	12521.2	12584.5	12738.4	12912.6	13557.4	13788.2	15315.5	15150.3	13865.1	14969.3
57.5°	13399.1	13308.6	13546.1	13890.0	14933.1	15211.4	17005.6	16442.2	14555.2	15795.1
60°	14464.7	14478.3	14519.0	14953.5	16306.5	16664.0	18670.9	17664.0	14998.7	16302.0
62.5°	15745.4	15765.7	15849.4	16516.9	18150.5	18487.6	20444.8	18664.1	15202.3	16159.4
65°	15657.1	15743.1	16677.5	18960.5	20953.8	21286.4	22515.0	19365.5	14894.6	14856.2
67.5°	14263.4	14403.6	15967.1	21879.2	25180.4	25551.4	25017.5	19503.5	13566.5	11552.8
70°	12435.2	12485.0	14365.2	24503.8	30074.3	30449.9	27257.4	17985.3	10294.8	6443.9
72.5°	9711.0	9722.3	11928.4	25112.5	32730.6	32751.0	25499.4	13351.5	5536.6	2475.3
75°	6937.1	6869.2	7989.2	20365.6	28796.0	29026.8	19116.6	6262.8	2115.5	1169.8
77.5°	3719.7	3794.4	4520.7	12077.7	19892.7	20286.4	10430.5	1805.5	1077.0	796.4
80°	1149.4	1212.7	1853.1	5529.8	11267.7	11505.3	3866.8	803.2	751.2	567.9
82.5°	362.0	375.6	864.3	2323.7	4676.8	4785.4	1120.0	454.8	513.6	375.6
85°	104.1	106.3	384.6	866.6	1156.2	1178.8	314.5	176.5	294.1	233.0
87.5°	11.3	36.2	144.8	144.8	101.8	99.6	33.9	38.5	83.7	29.4
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°
4475.4	0°	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4
4495.8	2.5°	4484.5	4486.7	4457.3	4407.5	4353.2	4308.0	4251.4	4206.2	4174.5	4165.4
4536.5	5°	4516.1	4500.3	4416.6	4265.0	4084.0	3927.9	3753.6	3615.6	3525.1	3486.7
4579.5	7.5°	4563.6	4518.4	4335.1	4036.5	3690.3	3382.6	3070.3	2828.2	2674.4	2597.5
4620.2	10°	4604.4	4513.9	4199.4	3706.1	3176.7	2710.6	2289.7	1997.9	1835.0	1758.0
4667.7	12.5°	4642.8	4511.6	4022.9	3314.7	2597.5	2027.3	1635.9	1491.0	1445.8	1430.0
4744.7	15°	4715.2	4518.4	3801.2	2866.7	2020.5	1531.8	1389.2	1387.0	1396.0	1391.5
4862.3	17.5°	4814.8	4525.2	3550.0	2391.6	1558.9	1350.8	1344.0	1364.3	1377.9	1371.1
5009.4	20°	4943.8	4552.3	3283.0	1920.9	1339.5	1305.5	1321.4	1339.5	1350.8	1339.5
5206.2	22.5°	5124.8	4599.8	2991.1	1543.1	1269.3	1278.4	1291.9	1312.3	1323.6	1307.8
5457.4	25°	5346.5	4674.5	2703.8	1341.7	1235.4	1246.7	1267.1	1289.7	1303.3	1287.4
5774.1	27.5°	5633.8	4794.4	2439.1	1296.5	1201.4	1208.2	1237.6	1271.6	1289.7	1269.3
6224.4	30°	6050.2	4991.3	2210.6	1316.8	1181.1	1165.2	1206.0	1253.5	1273.8	1255.7
6837.5	32.5°	6602.2	5269.6	2070.3	1348.5	1172.0	1115.5	1153.9	1215.0	1248.9	1237.6
7638.5	35°	7326.3	5692.7	2016.0	1384.7	1165.2	1063.4	1090.6	1156.2	1215.0	1226.3
8647.6	37.5°	8204.2	6280.9	2031.8	1400.5	1144.9	1020.4	1034.0	1090.6	1167.5	1203.7
9783.4	40°	9202.0	6966.5	2122.3	1384.7	1122.2	984.2	986.5	1029.5	1097.4	1151.7
11005.2	42.5°	10231.4	7767.5	2289.7	1325.9	1101.9	952.6	945.8	975.2	1020.4	1058.9
12224.8	45°	11211.1	8591.1	2454.9	1244.4	1077.0	920.9	905.0	916.3	925.4	941.2
13412.6	47.5°	12066.4	9170.3	2407.4	1169.8	1043.1	884.7	857.5	853.0	825.8	823.6
14473.8	50°	12656.9	9297.0	2138.1	1095.1	993.3	843.9	801.0	773.8	726.3	703.7
15268.0	52.5°	12844.7	8796.9	1746.7	1020.4	911.8	789.6	728.6	685.6	626.7	606.4
15725.0	55°	12595.8	7817.2	1396.0	929.9	798.7	717.2	649.4	592.8	545.3	520.4
15774.8	57.5°	11987.2	6570.6	1104.1	823.6	678.8	635.8	567.9	511.3	470.6	445.7
15222.7	60°	10978.1	5217.5	873.4	696.9	579.2	547.5	477.4	441.2	405.0	375.6
13797.3	62.5°	9446.3	3724.2	685.6	552.1	484.2	448.0	407.3	380.1	337.1	296.4
11233.8	65°	7371.5	2278.4	529.4	405.0	389.2	371.1	346.2	321.3	269.2	228.5
7328.5	67.5°	4649.6	1079.3	377.9	305.4	307.7	298.7	287.3	267.0	228.5	192.3
3283.0	70°	2047.6	522.7	248.9	233.0	228.5	228.5	237.6	230.8	194.6	160.6
1140.3	72.5°	696.9	280.6	185.5	176.5	165.2	162.9	199.1	192.3	156.1	124.4
567.9	75°	364.3	187.8	135.8	126.7	99.6	119.9	158.4	149.3	110.9	81.5
375.6	77.5°	237.6	133.5	92.8	81.5	56.6	79.2	117.7	104.1	65.6	40.7
246.6	80°	149.3	88.2	54.3	38.5	27.2	43.0	63.4	45.3	24.9	9.1
144.8	82.5°	79.2	45.3	20.4	13.6	11.3	13.6	15.8	11.3	4.5	0.0
74.7	85°	31.7	15.8	6.8	4.5	2.3	0.0	4.5	2.3	0.0	0.0
13.6	87.5°	11.3	2.3	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>
4475.4
4181.3
3500.2
2608.8
1760.3
1425.4
1389.2
1368.9
1337.2
1305.5
1285.2
1269.3
1253.5
1237.6
1226.3
1212.7
1169.8
1074.7
950.3
821.3
705.9
604.1
520.4
441.2
368.8
289.6
221.7
187.8
153.9
117.7
74.7
36.2
6.8
0.0
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0.0
0.0

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