

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: P952571

Luminaire Tested: **GALN-SB6B-850-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-850-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27655 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

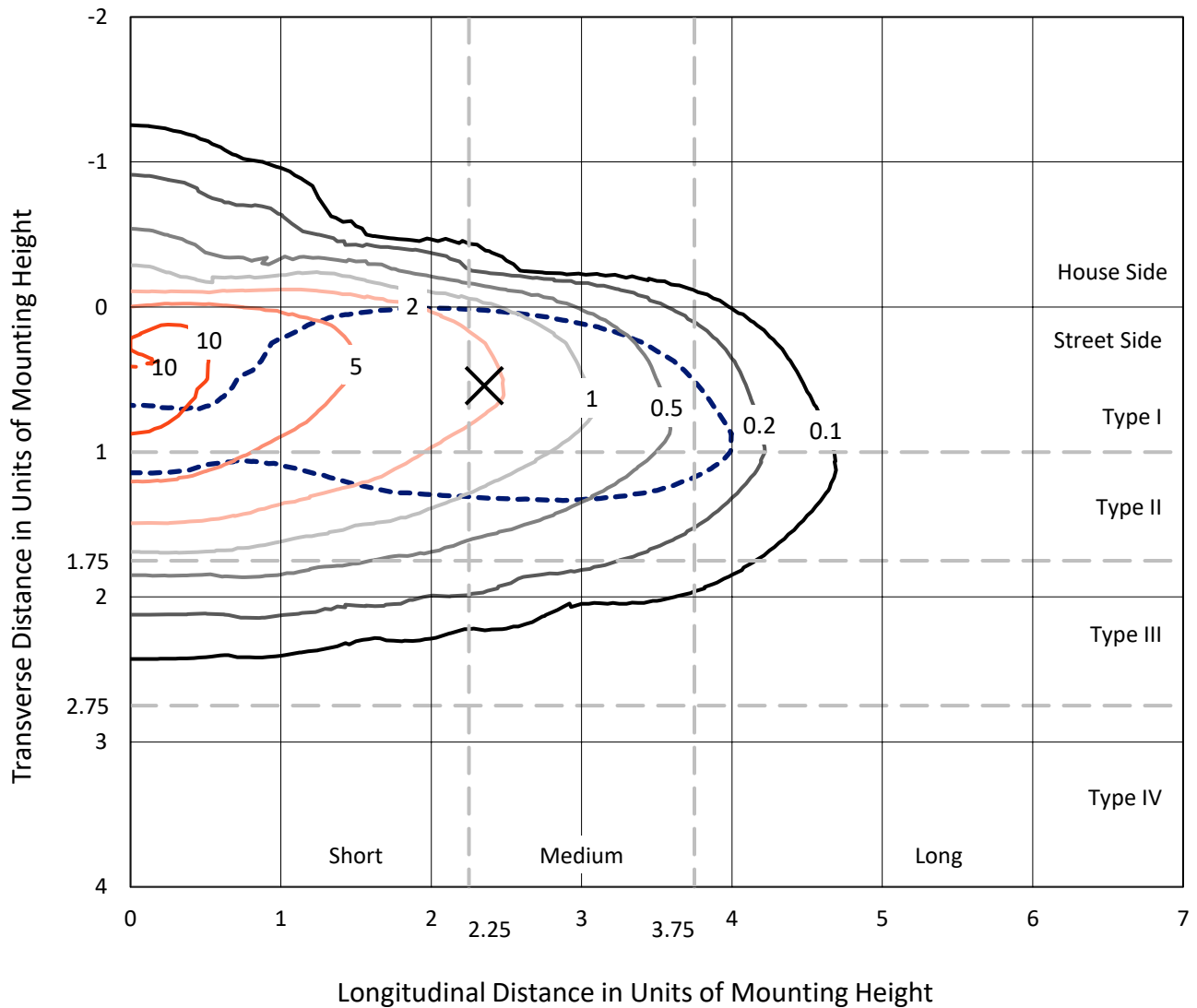
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

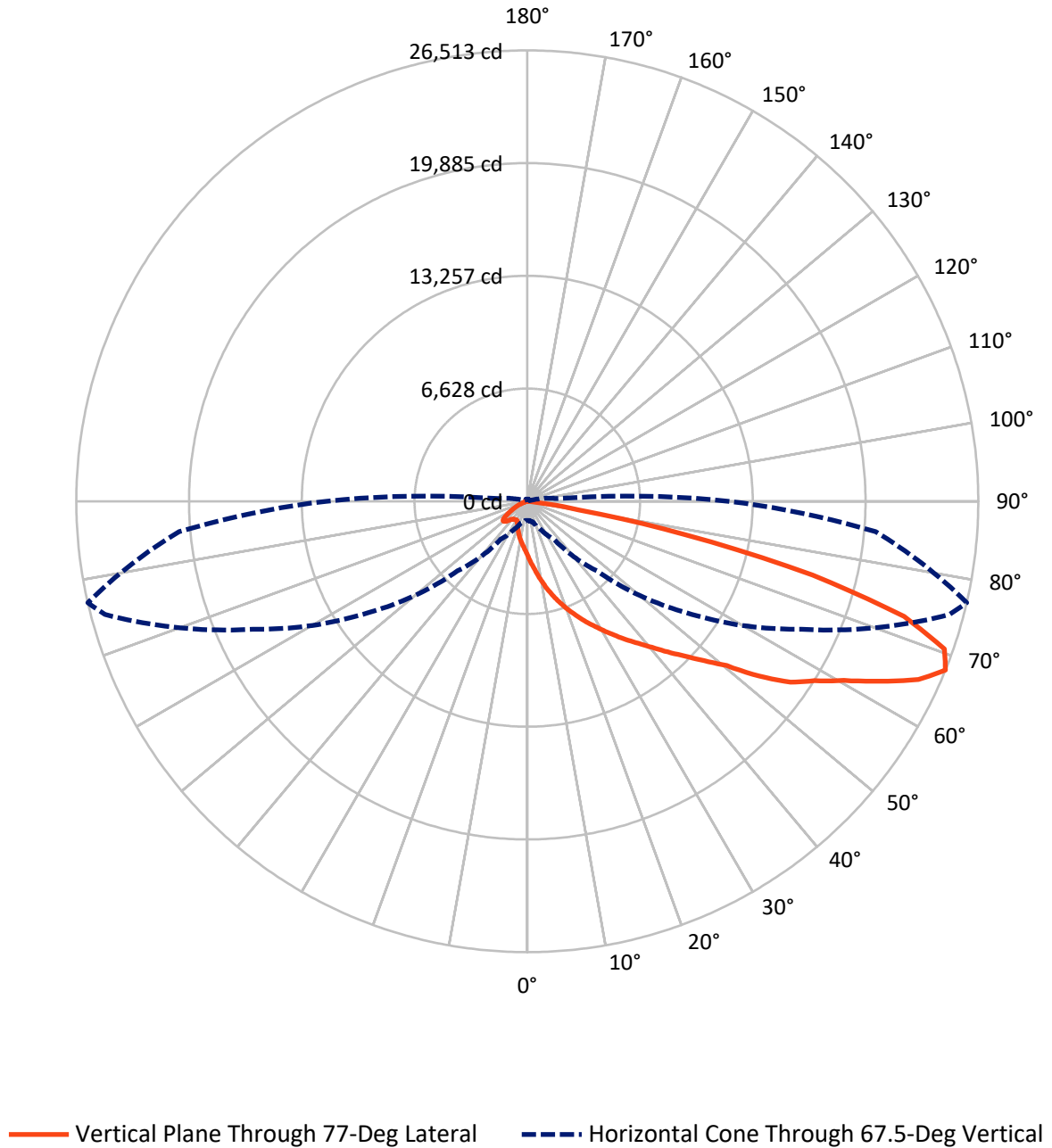
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2034.6	0.0	2034.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	25620.4	0.0	25620.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	27655.0	0.0	27655.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.5	1.2
10°-20°	1139.8	4.1
20°-30°	2199.6	8.0
30°-40°	3818.6	13.8
40°-50°	5544.4	20.0
50°-60°	6367.0	23.0
60°-70°	5527.8	20.0
70°-80°	2603.6	9.4
80°-90°	128.8	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°	27655.0	100.0
0°-180°	27655.0	100.0

Coefficient of Utilization



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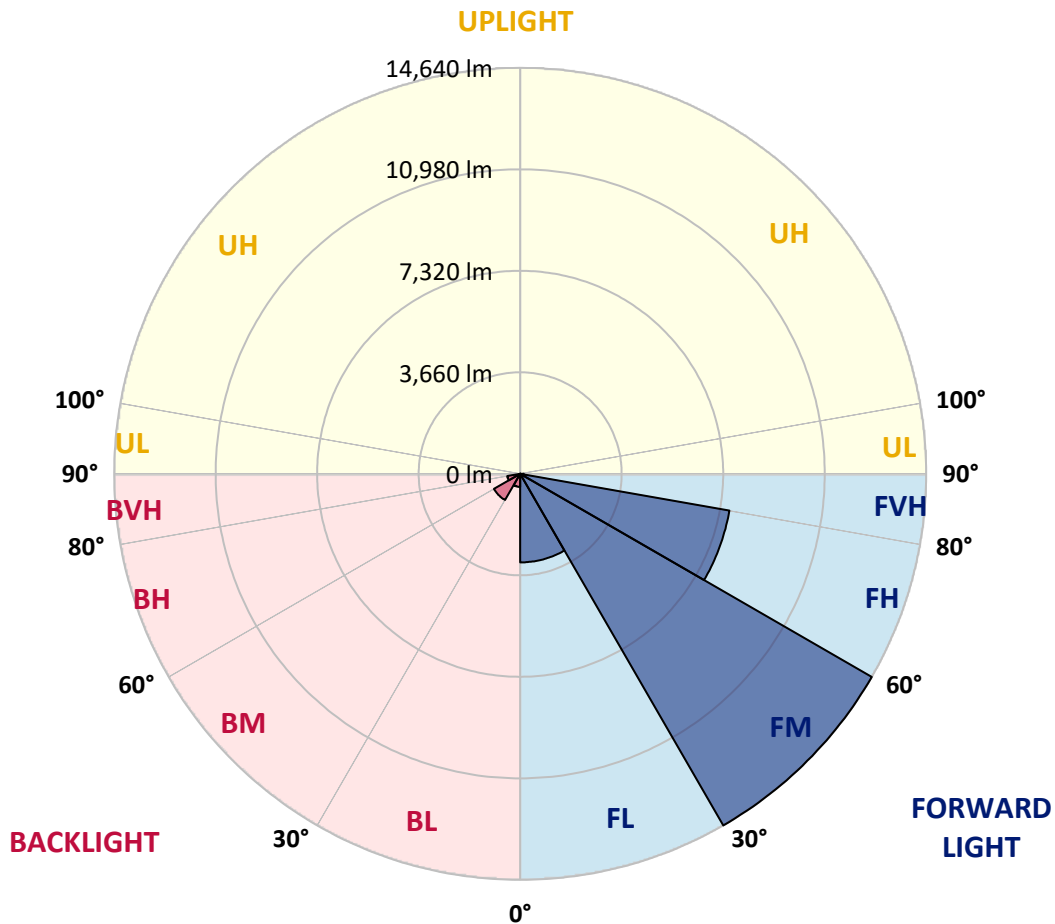
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3193.9	11.5			
FM (30°-60°)	14639.8	52.9			
FH (60°-80°)	7660.4	27.7			G4/12000
FVH (80°-90°)	126.4	0.5			G2/225
BL (0°-30°)	471.0	1.7	B1/500		
BM (30°-60°)	1090.2	3.9	B2/2500		
BH (60°-80°)	471.0	1.7	B1/500		G1/500
BVH (80°-90°)	2.4	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0
2.5°	4415.2	4442.7	4403.2	4327.6	4214.3	4140.4	3960.1	3790.1	3601.2	3541.1
5°	5382.0	5406.1	5361.4	5279.0	5127.9	4983.6	4746.6	4391.1	4021.9	3903.4
7.5°	6098.1	6111.9	6094.7	6019.1	5874.9	5711.7	5447.3	5026.5	4478.7	4348.2
10°	6613.3	6658.0	6652.8	6623.6	6527.5	6395.2	6113.6	5634.5	4990.5	4822.2
12.5°	6955.1	7004.9	7034.1	7099.3	7094.2	7010.0	6762.7	6256.1	5500.5	5303.0
15°	7054.7	7107.9	7219.5	7370.7	7504.6	7547.5	7374.1	6865.8	6062.1	5809.6
17.5°	6998.0	7080.4	7214.4	7453.1	7746.7	7940.8	7921.9	7454.8	6572.1	6283.6
20°	7123.4	7202.4	7307.1	7508.0	7849.8	8201.8	8342.6	8018.1	7078.7	6776.5
22.5°	7817.2	7803.4	7813.7	7846.3	8050.7	8399.3	8689.5	8529.8	7580.2	7271.1
25°	8916.2	8854.4	8749.6	8572.8	8521.2	8689.5	8991.8	8983.2	8109.1	7777.7
27.5°	10176.7	10166.4	9920.8	9495.0	9254.5	9189.3	9333.5	9424.5	8632.9	8279.1
30°	11384.0	11411.5	11080.0	10606.1	10164.7	9908.8	9778.3	9843.6	9165.2	8820.1
32.5°	12435.0	12464.2	12103.5	11548.8	11002.7	10693.6	10418.9	10257.4	9745.7	9369.6
35°	13322.8	13352.0	12938.1	12325.1	11742.9	11463.0	11152.2	10710.8	10329.6	9979.2
37.5°	14116.2	14107.6	13552.9	12934.7	12362.9	12141.3	11978.2	11268.9	10930.6	10592.3
40°	14585.0	14621.1	14147.1	13465.4	12910.7	12749.2	12738.9	11961.0	11624.4	11296.4
42.5°	14722.4	14786.0	14442.5	13882.7	13379.5	13204.3	13473.9	12709.7	12431.5	12112.1
45°	14475.1	14537.0	14380.7	13992.6	13698.9	13585.6	14105.9	13486.0	13293.6	12977.6
47.5°	13753.9	13831.1	13868.9	13786.5	13783.1	13898.1	14672.6	14303.4	14317.1	13994.3
50°	12357.7	12488.2	12835.1	13127.0	13578.7	14145.4	15223.9	15189.5	15471.2	15193.0
52.5°	9819.5	10005.0	11200.2	11998.8	13013.7	14099.0	15830.1	16611.5	17495.9	17088.9
55°	7891.0	7891.0	8863.0	10357.0	11911.2	13793.4	16094.5	17535.4	18874.9	18778.7
57.5°	6433.0	6510.3	7130.2	8450.8	10315.8	13065.2	16257.7	18115.8	19985.9	19915.5
60°	3970.4	4137.0	5308.2	6611.6	8500.6	11768.7	16154.7	18703.1	21334.0	21390.7
62.5°	2235.9	2297.7	2819.8	4756.9	6609.9	10025.6	15366.4	19031.1	23058.2	23298.6
65°	1543.9	1574.8	1775.7	2960.6	4581.8	7982.0	13826.0	18826.8	24785.8	25271.8
67.5°	1121.4	1136.9	1262.2	1808.3	2718.5	5787.3	11411.5	17796.4	25701.1	26513.4
70°	862.1	872.4	963.4	1188.4	1605.7	3572.0	8287.7	15747.7	25038.2	26008.5
72.5°	700.7	711.0	781.4	879.3	1064.7	2112.3	5023.1	12788.7	22112.0	23159.5
75°	590.8	604.5	668.0	731.6	834.6	1356.7	2356.1	8905.9	16628.6	17315.5
77.5°	328.0	302.2	542.7	606.2	704.1	858.7	1102.5	5241.2	9312.9	9503.5
80°	204.4	211.2	431.0	487.7	540.9	432.8	504.9	2017.8	3228.5	3067.1
82.5°	12.0	27.5	331.4	352.0	370.9	185.5	190.6	685.2	777.9	714.4
85°	0.0	0.0	151.1	121.9	128.8	53.2	55.0	159.7	104.8	113.3
87.5°	0.0	0.0	0.0	3.4	0.0	5.2	10.3	13.7	5.2	6.9
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°
3189.0	0°	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0
3352.2	2.5°	3232.0	3111.7	2867.9	2629.2	2435.1	2254.8	2126.0	2004.1	1942.3	1938.8
3568.6	5°	3329.8	3077.4	2589.7	2158.6	1811.8	1533.5	1353.2	1224.4	1159.2	1136.9
3834.7	7.5°	3467.2	3087.7	2345.8	1746.5	1337.8	1099.1	996.0	954.8	941.1	925.6
4135.3	10°	3640.7	3111.7	2127.7	1406.5	1054.4	934.2	893.0	875.8	865.5	855.2
4473.6	12.5°	3834.7	3134.1	1911.4	1167.8	927.3	865.5	836.3	815.7	802.0	790.0
4820.5	15°	4023.6	3147.8	1686.4	1001.2	862.1	812.3	781.4	759.0	740.2	726.4
5160.5	17.5°	4210.8	3166.7	1475.2	901.6	808.8	759.0	728.1	700.7	685.2	669.7
5517.7	20°	4418.6	3163.3	1276.0	831.2	755.6	705.8	673.2	647.4	632.0	614.8
5895.5	22.5°	4611.0	3146.1	1100.8	771.1	700.7	652.6	616.5	590.8	575.3	561.6
6281.9	25°	4832.5	3132.4	954.8	716.1	649.1	601.1	561.6	537.5	520.3	508.3
6670.0	27.5°	5045.4	3111.7	848.3	666.3	599.3	553.0	515.2	487.7	472.3	463.7
7070.1	30°	5254.9	3106.6	808.8	618.2	554.7	508.3	470.5	444.8	432.8	429.3
7509.8	32.5°	5507.4	3120.3	826.0	601.1	513.5	467.1	431.0	412.2	400.1	400.1
7999.2	35°	5777.0	3116.9	851.8	616.5	486.0	425.9	398.4	386.4	374.4	374.4
8541.9	37.5°	6115.3	3122.1	872.4	642.3	475.7	391.5	376.1	360.6	353.8	353.8
9136.0	40°	6620.2	3292.1	862.1	664.6	472.3	367.5	336.6	331.4	326.3	326.3
9807.5	42.5°	7238.4	3661.3	875.8	666.3	470.5	350.3	309.1	319.4	307.4	305.7
10564.8	45°	7915.0	4064.9	963.4	630.2	468.8	341.7	295.4	307.4	288.5	288.5
11442.4	47.5°	8586.5	4465.0	1052.7	578.7	463.7	340.0	283.4	276.5	271.3	273.1
12586.1	50°	9512.1	4791.3	1087.1	508.3	451.7	336.6	261.0	262.7	259.3	262.7
14198.6	52.5°	10520.2	4860.0	1045.8	429.3	417.3	326.3	245.6	252.4	250.7	254.2
15333.8	55°	11148.7	4786.1	863.8	357.2	364.1	285.1	230.1	243.9	243.9	243.9
16443.2	57.5°	11797.9	4471.9	613.1	290.2	302.2	233.6	216.4	235.3	233.6	231.8
17779.2	60°	12265.0	3963.5	403.6	238.7	240.4	192.3	200.9	221.5	219.8	211.2
19156.5	62.5°	12613.6	3402.0	259.3	202.6	183.8	173.4	183.8	200.9	194.1	175.2
20324.3	65°	12574.1	2624.0	199.2	173.4	151.1	151.1	159.7	175.2	154.6	123.6
20547.5	67.5°	11840.8	1775.7	164.9	146.0	127.1	125.4	132.2	146.0	132.2	104.8
19403.8	70°	10530.5	1160.9	132.2	113.3	101.3	92.7	106.5	125.4	111.6	84.1
16518.7	72.5°	8547.0	707.5	99.6	82.4	73.8	60.1	84.1	103.0	89.3	61.8
11487.0	75°	5529.7	360.6	68.7	53.2	39.5	36.1	61.8	77.3	61.8	37.8
5096.9	77.5°	2115.7	151.1	37.8	24.0	20.6	17.2	34.3	46.4	25.8	8.6
987.4	80°	407.0	63.5	18.9	12.0	10.3	6.9	5.2	3.4	0.0	0.0
175.2	82.5°	70.4	20.6	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
34.3	85°	24.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.0	87.5°	8.6	0.0	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°
3189.0
1935.4
1133.4
922.2
851.8
786.5
724.7
668.0
613.1
559.8
506.6
463.7
427.6
400.1
374.4
353.8
326.3
304.0
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273.1
262.7
254.2
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171.7
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