

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: P954927

Luminaire Tested: **GALN-SB8A-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954927
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-SB8A-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 350mA 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: 31949 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

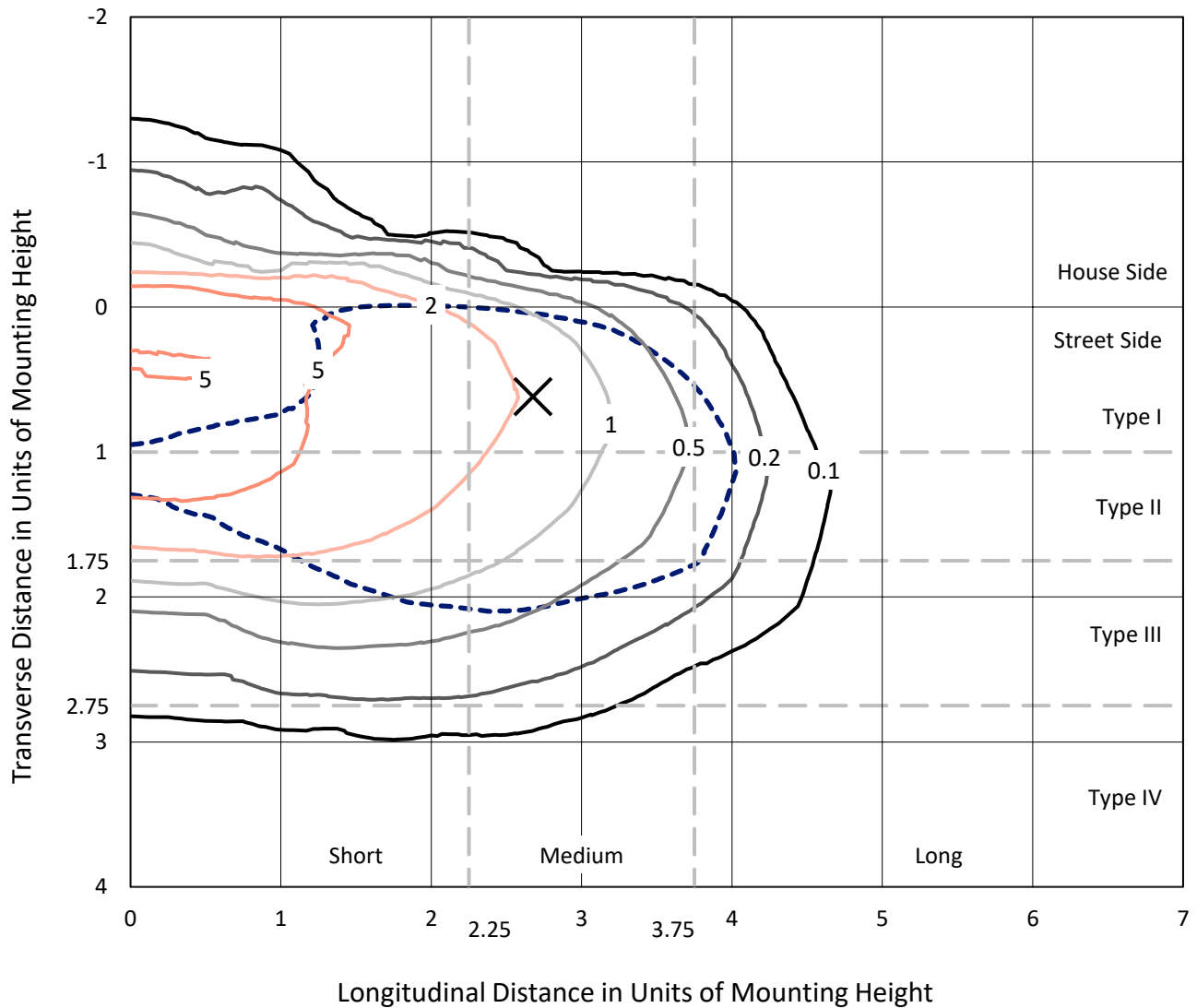
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

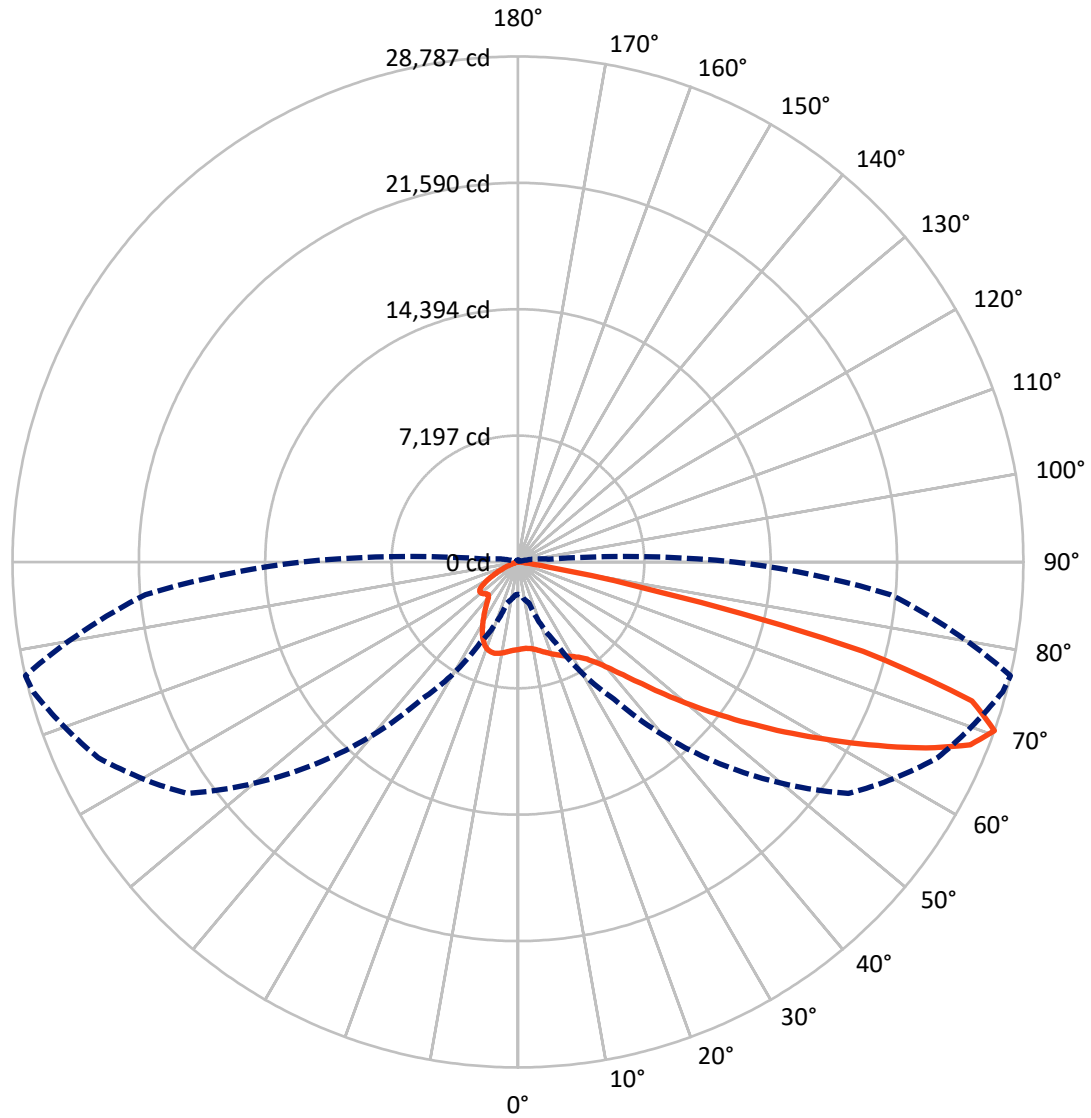
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - N/A

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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	3367.9	0.0	3367.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	28581.1	0.0	28581.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	31949.0	0.0	31949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.5	1.3
10°-20°	1019.6	3.2
20°-30°	1577.0	4.9
30°-40°	2861.5	9.0
40°-50°	5401.5	16.9
50°-60°	7804.7	24.4
60°-70°	8307.9	26.0
70°-80°	4402.6	13.8
80°-90°	144.6	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°	31949.0	100.0
0°-180°	31949.0	100.0

Coefficient of Utilization



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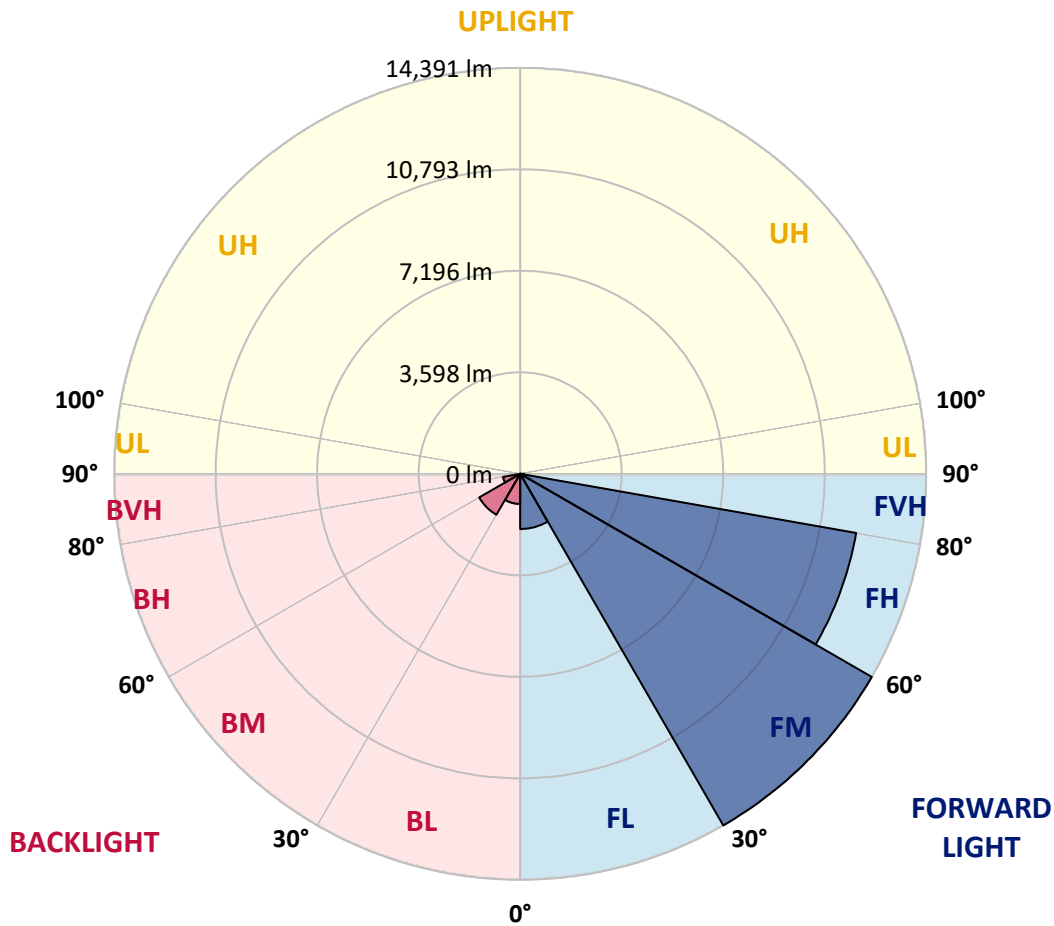
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1956.0	6.1			
FM (30°-60°)	14391.3	45.0			
FH (60°-80°)	12093.1	37.9			G5
FVH (80°-90°)	140.7	0.4			G2/225
BL (0°-30°)	1070.0	3.3	B3/2500		
BM (30°-60°)	1676.5	5.2	B2/2500		
BH (60°-80°)	617.4	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4983.5	4983.5	4983.5	4983.5	4983.5	4983.5	4983.5	4983.5	4983.5	4983.5
2.5°	4678.8	4721.2	4715.1	4743.4	4753.5	4793.8	4834.2	4888.6	4949.2	4947.2
5°	4414.5	4456.9	4467.0	4505.3	4553.7	4616.3	4699.0	4807.9	4920.9	4939.1
7.5°	4101.8	4146.2	4172.4	4249.1	4337.8	4467.0	4602.1	4761.5	4949.2	4975.4
10°	3789.0	3829.4	3863.7	3972.7	4113.9	4305.6	4525.5	4755.5	5007.7	5046.0
12.5°	3595.4	3633.7	3672.0	3766.9	3942.4	4176.4	4475.0	4783.7	5104.5	5159.0
15°	3526.8	3561.1	3591.3	3676.1	3839.5	4105.8	4464.9	4842.2	5227.6	5300.2
17.5°	3536.8	3555.0	3575.2	3639.7	3799.1	4073.5	4483.1	4943.1	5372.9	5437.4
20°	3595.4	3605.4	3607.5	3651.9	3793.1	4069.5	4519.4	5040.0	5510.1	5596.8
22.5°	3670.0	3674.0	3670.0	3700.3	3831.4	4099.8	4567.8	5157.0	5663.4	5744.1
25°	4019.1	3942.4	3845.5	3787.0	3896.0	4158.3	4640.5	5314.4	5830.9	5909.5
27.5°	5102.5	4882.6	4535.6	4146.2	4029.1	4243.0	4741.4	5473.7	6000.3	6071.0
30°	6861.9	6573.3	5984.2	5106.5	4456.9	4420.6	4872.5	5633.1	6179.9	6256.6
32.5°	8625.2	8554.6	7874.7	6660.1	5419.3	4816.0	5090.4	5849.0	6418.0	6478.5
35°	10408.8	10265.5	9708.7	8508.2	6902.2	5621.0	5453.6	6131.5	6730.7	6799.3
37.5°	11774.7	11687.9	11342.9	10354.3	8661.5	6863.9	6075.0	6569.3	7184.7	7261.3
40°	12981.2	12940.9	12823.9	12172.2	10628.7	8490.1	7041.4	7247.2	7814.2	7904.9
42.5°	13929.5	14024.3	14090.9	13909.3	12656.4	10346.2	8340.8	8199.5	8691.8	8784.6
45°	14900.0	14932.2	15200.6	15462.9	14670.0	12287.2	9805.5	9315.2	9783.3	9898.3
47.5°	15523.4	15652.5	16124.6	16586.7	16362.7	14212.0	11379.3	10632.7	11048.4	11264.2
50°	15569.8	15813.9	16463.6	17268.6	17595.5	16043.9	13090.2	12133.8	12575.7	12813.8
52.5°	14797.1	15176.4	16183.2	17361.4	18261.3	17595.5	14859.6	13634.9	14201.9	14512.6
55°	11345.0	11841.3	15127.9	16857.0	18287.5	18771.7	16582.6	15198.6	16013.7	16364.7
57.5°	9884.2	10134.4	11893.7	15981.4	17801.3	19245.9	18140.2	16687.6	17984.9	18420.7
60°	8223.7	8552.6	9975.0	14548.9	17141.5	19292.3	19516.2	18608.3	20121.5	20611.8
62.5°	5588.7	5945.9	7360.2	12087.4	16239.6	19270.1	20644.1	20585.6	22496.2	23022.8
65°	3462.2	3686.2	4618.3	9870.1	14978.6	19294.3	21824.4	22986.5	25002.1	25536.7
67.5°	2735.9	2838.8	3325.0	7578.1	12805.7	18749.5	23002.6	25244.2	27360.6	27784.3
70°	1838.0	1900.6	2419.1	5080.3	9527.1	16235.6	22980.4	26378.1	28575.2	28787.1
72.5°	968.4	1016.9	1414.3	2352.5	5754.2	11540.7	19371.0	25022.3	27366.7	27047.9
75°	484.2	564.9	952.3	1194.4	2457.4	6436.1	12028.9	19728.1	21539.9	20305.1
77.5°	367.2	443.9	786.9	786.9	855.5	2166.9	5094.4	10759.8	9924.6	8264.1
80°	234.0	302.6	688.0	595.2	357.1	550.8	1327.6	3014.3	2108.4	1604.0
82.5°	137.2	197.7	573.0	393.4	199.7	203.8	375.3	641.6	546.8	425.7
85°	54.5	129.1	393.4	155.4	78.7	50.4	113.0	137.2	113.0	84.7
87.5°	0.0	30.3	68.6	0.0	6.1	4.0	8.1	10.1	10.1	8.1
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°
4983.5	0°	4983.5	4983.5	4983.5	4983.5	4983.5	4983.5	4983.5	4983.5	4983.5	4983.5
4987.5	2.5°	5005.7	5009.7	5021.8	5023.8	4995.6	4959.3	4945.1	4939.1	4914.9	4912.9
5019.8	5°	5066.2	5084.3	5066.2	5013.7	4888.6	4713.1	4579.9	4471.0	4372.1	4341.9
5130.8	7.5°	5187.2	5205.4	5150.9	4945.1	4630.4	4281.3	3966.6	3744.7	3544.9	3470.3
5265.9	10°	5360.8	5385.0	5213.5	4797.8	4241.0	3680.1	3147.5	2772.2	2479.6	2360.6
5449.5	12.5°	5578.7	5588.7	5247.8	4573.9	3734.6	2933.6	2179.0	1777.5	1517.2	1420.4
5671.5	15°	5818.8	5804.6	5251.8	4269.2	3044.6	2074.1	1422.4	1168.2	1063.3	1031.0
5893.4	17.5°	6071.0	6012.4	5171.1	3829.4	2288.0	1418.4	1055.2	994.7	976.5	968.4
6113.3	20°	6319.1	6188.0	5023.8	3254.4	1642.3	1059.2	958.4	940.2	930.1	926.1
6335.3	22.5°	6545.1	6321.1	4771.6	2586.6	1192.4	936.2	905.9	889.8	871.6	863.5
6551.1	25°	6765.0	6397.8	4416.5	1963.1	954.3	875.6	851.4	821.2	797.0	786.9
6783.2	27.5°	6978.9	6446.2	3972.7	1452.7	851.4	819.1	774.8	732.4	714.2	710.2
7031.3	30°	7206.9	6462.4	3468.3	1083.5	788.9	748.5	684.0	635.5	625.5	627.5
7366.3	32.5°	7485.3	6486.6	2959.8	887.7	736.4	663.8	587.1	536.7	528.6	536.7
7854.5	35°	7818.2	6535.0	2469.5	817.1	690.0	577.0	494.3	451.9	443.9	449.9
8480.0	37.5°	8270.1	6613.7	2011.5	803.0	651.7	504.4	415.6	381.3	381.3	383.3
9246.7	40°	8871.4	6823.5	1602.0	792.9	631.5	449.9	351.1	336.9	343.0	347.0
10223.2	42.5°	9603.8	7269.4	1325.6	780.8	609.3	425.7	318.8	312.7	322.8	326.9
11393.4	45°	10424.9	7834.3	1228.7	760.6	589.1	441.9	304.7	296.6	308.7	310.7
12704.8	47.5°	11274.3	8387.2	1216.6	738.4	569.0	466.1	300.6	282.5	296.6	298.6
14105.0	50°	12133.8	8748.3	1228.7	704.1	536.7	466.1	302.6	268.3	280.4	286.5
15557.7	52.5°	12999.4	8913.7	1220.6	629.5	480.2	437.8	302.6	256.2	268.3	272.4
17127.4	55°	13838.7	8881.5	1097.6	518.5	407.6	387.4	294.6	246.1	254.2	256.2
18610.3	57.5°	14502.5	8431.5	869.6	403.5	330.9	322.8	268.3	234.0	240.1	238.1
19970.2	60°	14849.5	7442.9	621.4	310.7	260.3	254.2	236.1	217.9	221.9	211.8
21122.2	62.5°	14853.6	6135.5	415.6	246.1	207.8	201.8	201.8	195.7	191.7	171.5
22014.0	65°	14536.8	4684.9	276.4	195.7	167.5	157.4	169.5	167.5	153.3	125.1
22286.4	67.5°	13818.5	3070.8	209.8	153.3	129.1	123.1	135.2	141.2	131.1	104.9
21293.7	70°	12341.6	1787.6	173.5	119.0	96.8	90.8	109.0	121.1	109.0	84.7
18200.8	72.5°	10251.4	964.4	141.2	88.8	66.6	60.5	86.8	98.9	86.8	62.5
11677.9	75°	6652.0	516.5	109.0	58.5	34.3	38.3	64.6	72.6	60.5	40.4
3427.9	77.5°	2233.5	228.0	68.6	28.2	16.1	16.1	38.3	44.4	28.2	14.1
623.4	80°	498.3	94.8	28.2	12.1	6.1	6.1	8.1	8.1	4.0	0.0
191.7	82.5°	163.4	38.3	12.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
48.4	85°	62.5	14.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.1	87.5°	24.2	2.0	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°
4983.5
4916.9
4323.7
3440.0
2310.1
1390.1
1031.0
966.4
922.0
861.5
782.8
706.2
627.5
534.7
447.9
381.3
347.0
326.9
312.7
300.6
288.5
272.4
256.2
238.1
209.8
165.4
121.1
102.9
80.7
60.5
36.3
12.1
0.0
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0.0
0.0
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