

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: P955431

Luminaire Tested: **GALN-SB8B-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955431
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-SB8B-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 450mA 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: 36260 lumens
Efficiency: N/A
Efficacy: 123.8 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

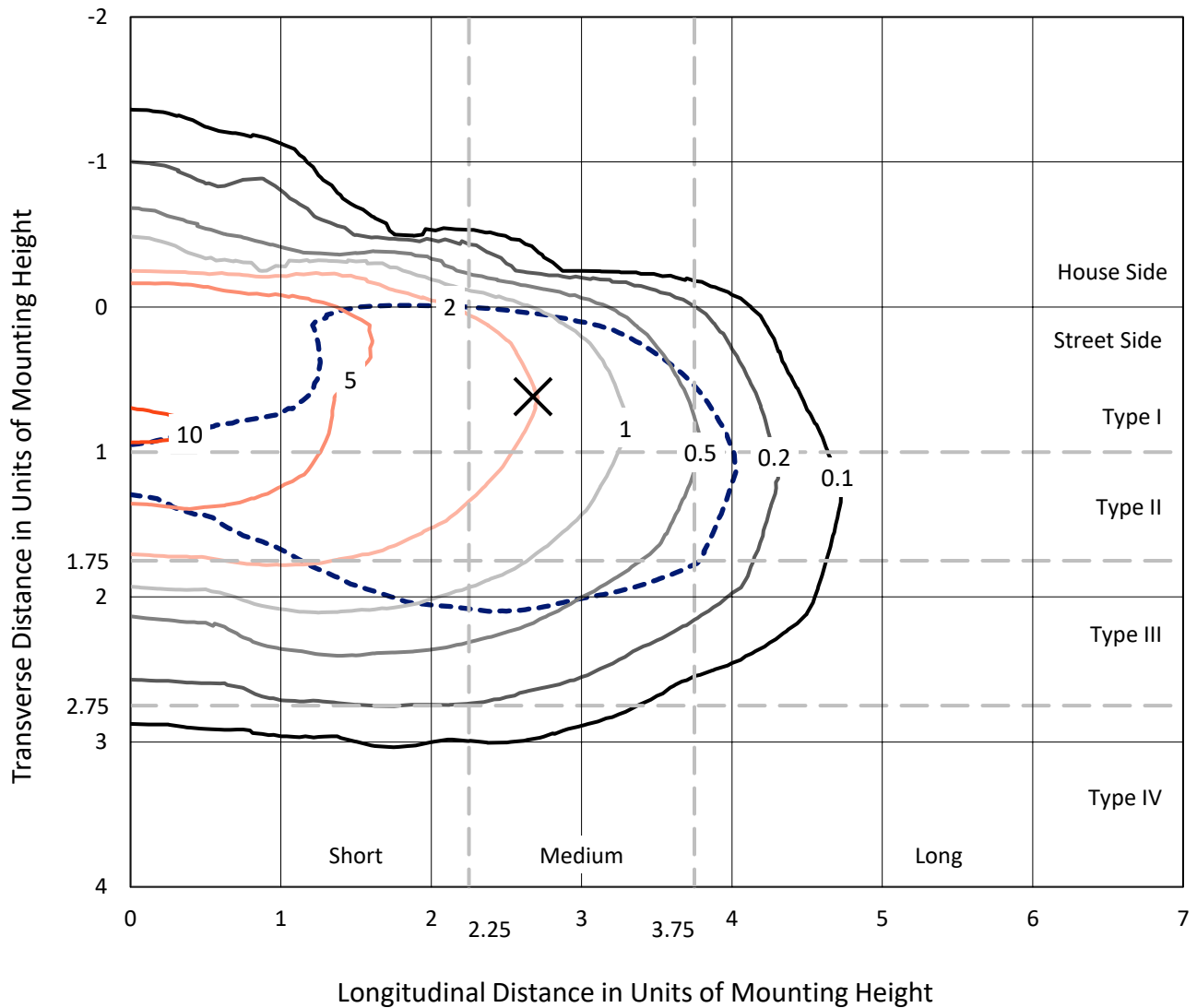
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

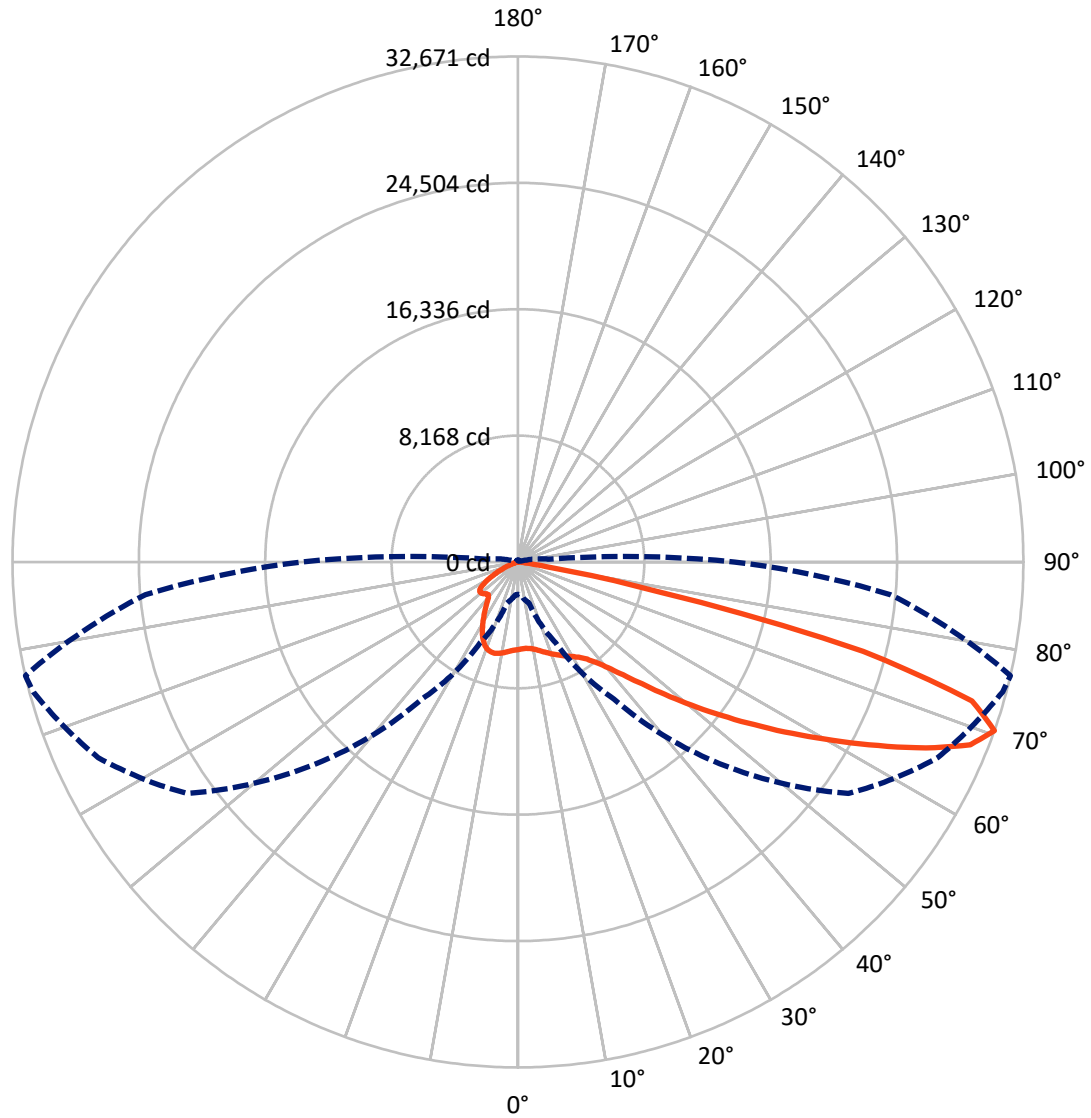
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	3822.3	0.0	3822.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	32437.7	0.0	32437.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	36260.0	0.0	36260.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.4	1.3
10°-20°	1157.1	3.2
20°-30°	1789.8	4.9
30°-40°	3247.7	9.0
40°-50°	6130.4	16.9
50°-60°	8857.9	24.4
60°-70°	9429.0	26.0
70°-80°	4996.7	13.8
80°-90°	164.1	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°	36260.0	100.0
0°-180°	36260.0	100.0

Coefficient of Utilization



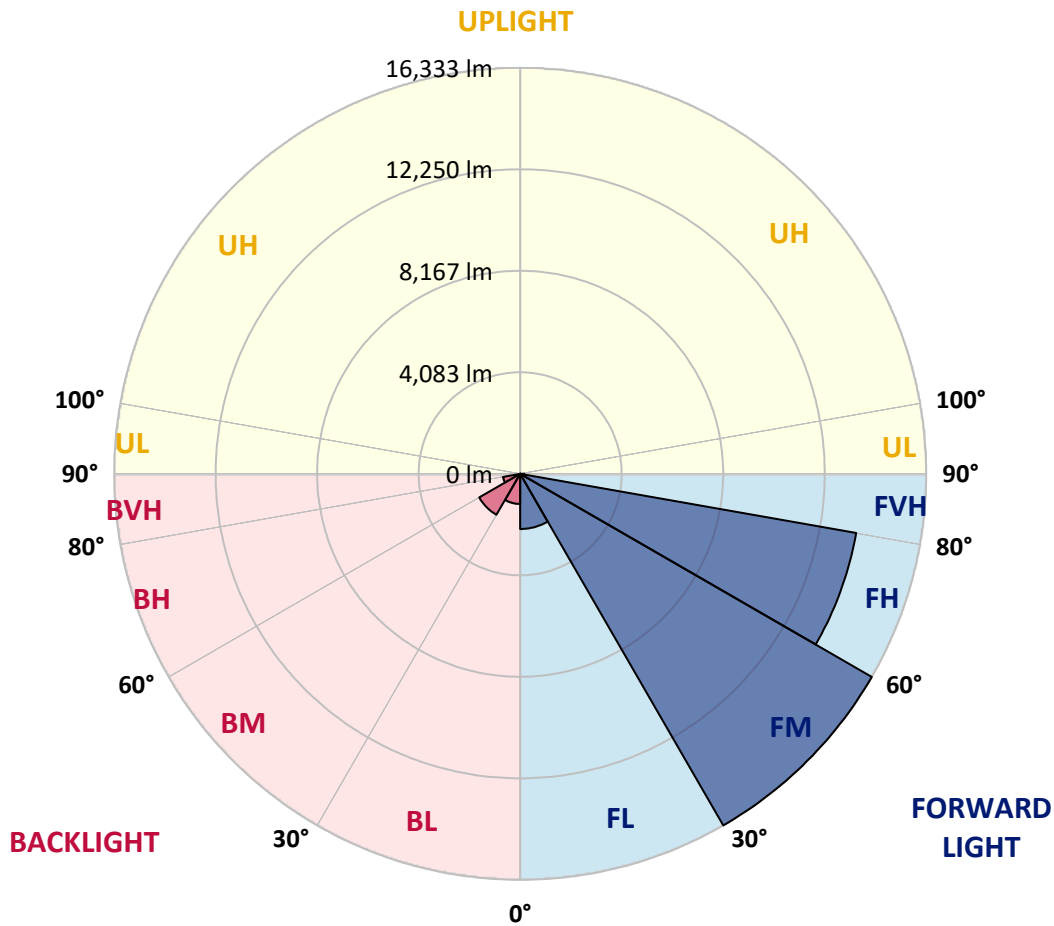
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2220.0	6.1			
FM (30°-60°)	16333.1	45.0			
FH (60°-80°)	13724.9	37.9			G5
FVH (80°-90°)	159.7	0.4			G2/225
BL (0°-30°)	1214.4	3.3	B3/2500		
BM (30°-60°)	1902.8	5.2	B2/2500		
BH (60°-80°)	700.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9
2.5°	5310.1	5358.2	5351.4	5383.4	5394.9	5440.7	5486.5	5548.3	5617.0	5614.7
5°	5010.2	5058.3	5069.7	5113.2	5168.2	5239.2	5333.0	5456.7	5584.9	5605.5
7.5°	4655.2	4705.6	4735.4	4822.4	4923.2	5069.7	5223.1	5404.0	5617.0	5646.7
10°	4300.3	4346.1	4385.0	4508.7	4669.0	4886.5	5136.1	5397.2	5683.4	5726.9
12.5°	4080.5	4124.0	4167.5	4275.1	4474.3	4740.0	5078.9	5429.2	5793.3	5855.1
15°	4002.6	4041.6	4075.9	4172.1	4357.6	4659.8	5067.4	5495.6	5933.0	6015.4
17.5°	4014.1	4034.7	4057.6	4130.9	4311.8	4623.2	5088.0	5610.1	6097.8	6171.1
20°	4080.5	4091.9	4094.2	4144.6	4304.9	4618.6	5129.2	5720.0	6253.6	6352.0
22.5°	4165.2	4169.8	4165.2	4199.6	4348.4	4653.0	5184.2	5852.8	6427.6	6519.2
25°	4561.4	4474.3	4364.4	4298.0	4421.7	4719.4	5266.6	6031.4	6617.6	6706.9
27.5°	5791.0	5541.4	5147.6	4705.6	4572.8	4815.5	5381.1	6212.3	6810.0	6890.1
30°	7787.7	7460.3	6791.7	5795.6	5058.3	5017.0	5530.0	6393.2	7013.8	7100.8
32.5°	9789.1	9708.9	8937.2	7558.8	6150.5	5465.8	5777.3	6638.2	7284.0	7352.7
35°	11813.3	11650.7	11018.7	9656.3	7833.5	6379.5	6189.4	6958.8	7638.9	7716.8
37.5°	13363.5	13265.0	12873.5	11751.5	9830.3	7790.0	6894.7	7455.7	8154.1	8241.1
40°	14732.8	14687.0	14554.2	13814.6	12062.9	9635.6	7991.5	8225.1	8868.6	8971.6
42.5°	15809.1	15916.7	15992.2	15786.2	14364.2	11742.3	9466.2	9305.9	9864.6	9970.0
45°	16910.5	16947.1	17251.7	17549.3	16649.4	13945.1	11128.6	10572.2	11103.4	11234.0
47.5°	17618.0	17764.6	18300.4	18824.8	18570.6	16129.6	12914.7	12067.5	12539.2	12784.2
50°	17670.7	17947.8	18685.1	19598.7	19969.7	18208.8	14856.5	13771.1	14272.6	14542.8
52.5°	16793.7	17224.2	18366.8	19704.1	20725.3	19969.7	16864.7	15474.7	16118.2	16470.8
55°	12875.8	13439.1	17169.2	19131.6	20755.1	21304.7	18820.2	17249.4	18174.5	18572.9
57.5°	11217.9	11501.9	13498.6	18137.8	20203.3	21842.8	20588.0	18939.3	20411.6	20906.2
60°	9333.4	9706.6	11321.0	16512.0	19454.5	21895.5	22149.6	21119.2	22836.6	23393.0
62.5°	6342.9	6748.2	8353.3	13718.4	18430.9	21870.3	23429.6	23363.2	25531.7	26129.4
65°	3929.4	4183.5	5241.4	11201.9	16999.8	21897.7	24769.2	26088.1	28375.7	28982.5
67.5°	3105.0	3221.8	3773.7	8600.6	14533.6	21279.5	26106.5	28650.5	31052.5	31533.4
70°	2086.0	2157.0	2745.5	5765.8	10812.6	18426.3	26081.3	29937.4	32431.0	32671.4
72.5°	1099.1	1154.1	1605.2	2670.0	6530.6	13097.9	21984.8	28398.6	31059.4	30697.6
75°	549.6	641.2	1080.8	1355.6	2789.0	7304.6	13652.0	22390.1	24446.3	23045.0
77.5°	416.8	503.8	893.0	893.0	970.9	2459.3	5781.8	12211.7	11263.7	9379.2
80°	265.6	343.5	780.8	675.5	405.3	625.1	1506.7	3421.0	2392.9	1820.4
82.5°	155.7	224.4	650.3	446.5	226.7	231.3	425.9	728.2	620.5	483.2
85°	61.8	146.5	446.5	176.3	89.3	57.2	128.2	155.7	128.2	96.2
87.5°	0.0	34.3	77.9	0.0	6.9	4.6	9.2	11.4	11.4	9.2
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°
5655.9	0°	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9
5660.5	2.5°	5681.1	5685.7	5699.4	5701.7	5669.6	5628.4	5612.4	5605.5	5578.1	5575.8
5697.1	5°	5749.8	5770.4	5749.8	5690.3	5548.3	5349.1	5197.9	5074.3	4962.1	4927.7
5823.1	7.5°	5887.2	5907.8	5846.0	5612.4	5255.2	4859.0	4501.8	4249.9	4023.2	3938.5
5976.5	10°	6084.1	6111.6	5916.9	5445.2	4813.2	4176.7	3572.2	3146.2	2814.2	2679.1
6184.9	12.5°	6331.4	6342.9	5955.9	5191.1	4238.5	3329.4	2473.0	2017.3	1722.0	1612.0
6436.7	15°	6603.9	6587.9	5960.5	4845.3	3455.4	2354.0	1614.3	1325.8	1206.7	1170.1
6688.6	17.5°	6890.1	6823.7	5868.9	4346.1	2596.7	1609.8	1197.6	1128.9	1108.3	1099.1
6938.2	20°	7171.8	7022.9	5701.7	3693.5	1863.9	1202.2	1087.7	1067.1	1055.6	1051.0
7190.1	22.5°	7428.2	7174.1	5415.5	2935.6	1353.3	1062.5	1028.1	1009.8	989.2	980.1
7435.1	25°	7677.8	7261.1	5012.5	2228.0	1083.1	993.8	966.3	932.0	904.5	893.0
7698.4	27.5°	7920.6	7316.0	4508.7	1648.7	966.3	929.7	879.3	831.2	810.6	806.0
7980.1	30°	8179.3	7334.4	3936.2	1229.6	895.3	849.5	776.3	721.3	709.9	712.1
8360.2	32.5°	8495.3	7361.8	3359.2	1007.5	835.8	753.4	666.3	609.1	599.9	609.1
8914.3	35°	8873.1	7416.8	2802.8	927.4	783.1	654.9	561.0	512.9	503.8	510.6
9624.2	37.5°	9386.1	7506.1	2283.0	911.4	739.6	572.5	471.7	432.8	432.8	435.1
10494.3	40°	10068.4	7744.2	1818.1	899.9	716.7	510.6	398.4	382.4	389.3	393.9
11602.6	42.5°	10899.6	8250.3	1504.4	886.2	691.5	483.2	361.8	354.9	366.4	371.0
12930.7	45°	11831.6	8891.4	1394.5	863.3	668.6	501.5	345.8	336.6	350.3	352.6
14419.1	47.5°	12795.6	9518.9	1380.8	838.1	645.7	529.0	341.2	320.6	336.6	338.9
16008.3	50°	13771.1	9928.7	1394.5	799.2	609.1	529.0	343.5	304.5	318.3	325.2
17657.0	52.5°	14753.4	10116.5	1385.4	714.4	545.0	496.9	343.5	290.8	304.5	309.1
19438.5	55°	15706.0	10079.9	1245.7	588.5	462.5	439.6	334.3	279.4	288.5	290.8
21121.5	57.5°	16459.4	9569.2	986.9	458.0	375.5	366.4	304.5	265.6	272.5	270.2
22664.8	60°	16853.2	8447.2	705.3	352.6	295.4	288.5	267.9	247.3	251.9	240.4
23972.3	62.5°	16857.8	6963.4	471.7	279.4	235.9	229.0	229.0	222.1	217.5	194.6
24984.4	65°	16498.3	5317.0	313.7	222.1	190.1	178.6	192.3	190.1	174.0	142.0
25293.6	67.5°	15683.1	3485.1	238.1	174.0	146.5	139.7	153.4	160.3	148.8	119.1
24167.0	70°	14007.0	2028.8	196.9	135.1	109.9	103.0	123.7	137.4	123.7	96.2
20656.6	72.5°	11634.7	1094.5	160.3	100.8	75.6	68.7	98.5	112.2	98.5	71.0
13253.6	75°	7549.6	586.2	123.7	66.4	38.9	43.5	73.3	82.4	68.7	45.8
3890.4	77.5°	2534.9	258.8	77.9	32.1	18.3	18.3	43.5	50.4	32.1	16.0
707.6	80°	565.6	107.6	32.1	13.7	6.9	6.9	9.2	9.2	4.6	0.0
217.5	82.5°	185.5	43.5	13.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0
55.0	85°	71.0	16.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.3	87.5°	27.5	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>
5655.9
5580.3
4907.1
3904.2
2621.9
1577.7
1170.1
1096.8
1046.5
977.8
888.5
801.4
712.1
606.8
508.3
432.8
393.9
371.0
354.9
341.2
327.4
309.1
290.8
270.2
238.1
187.8
137.4
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41.2
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