

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: P950433

Luminaire Tested: **GALN-SB4D-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950433
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-SB4D-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 900mA 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: 32477 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

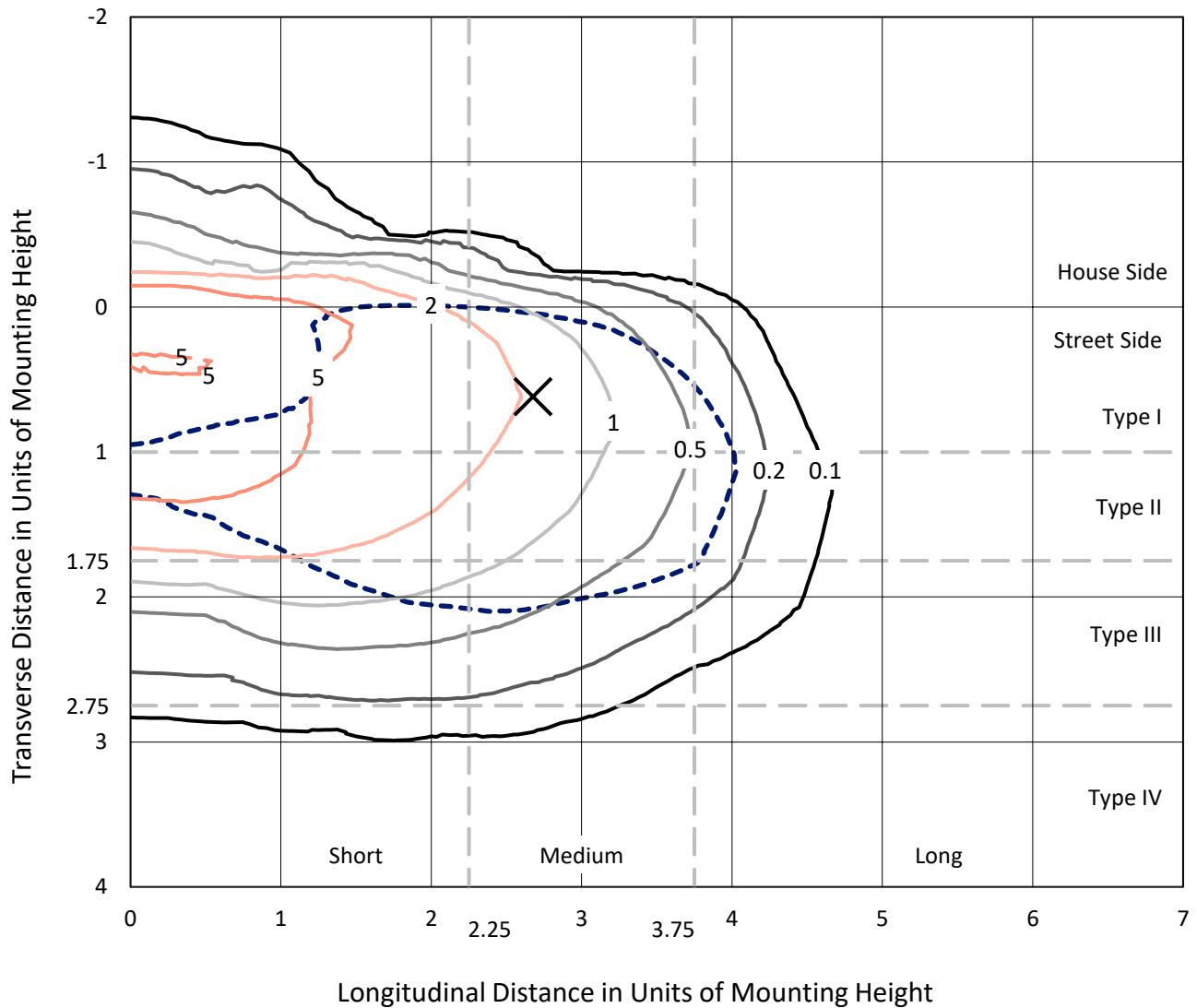
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

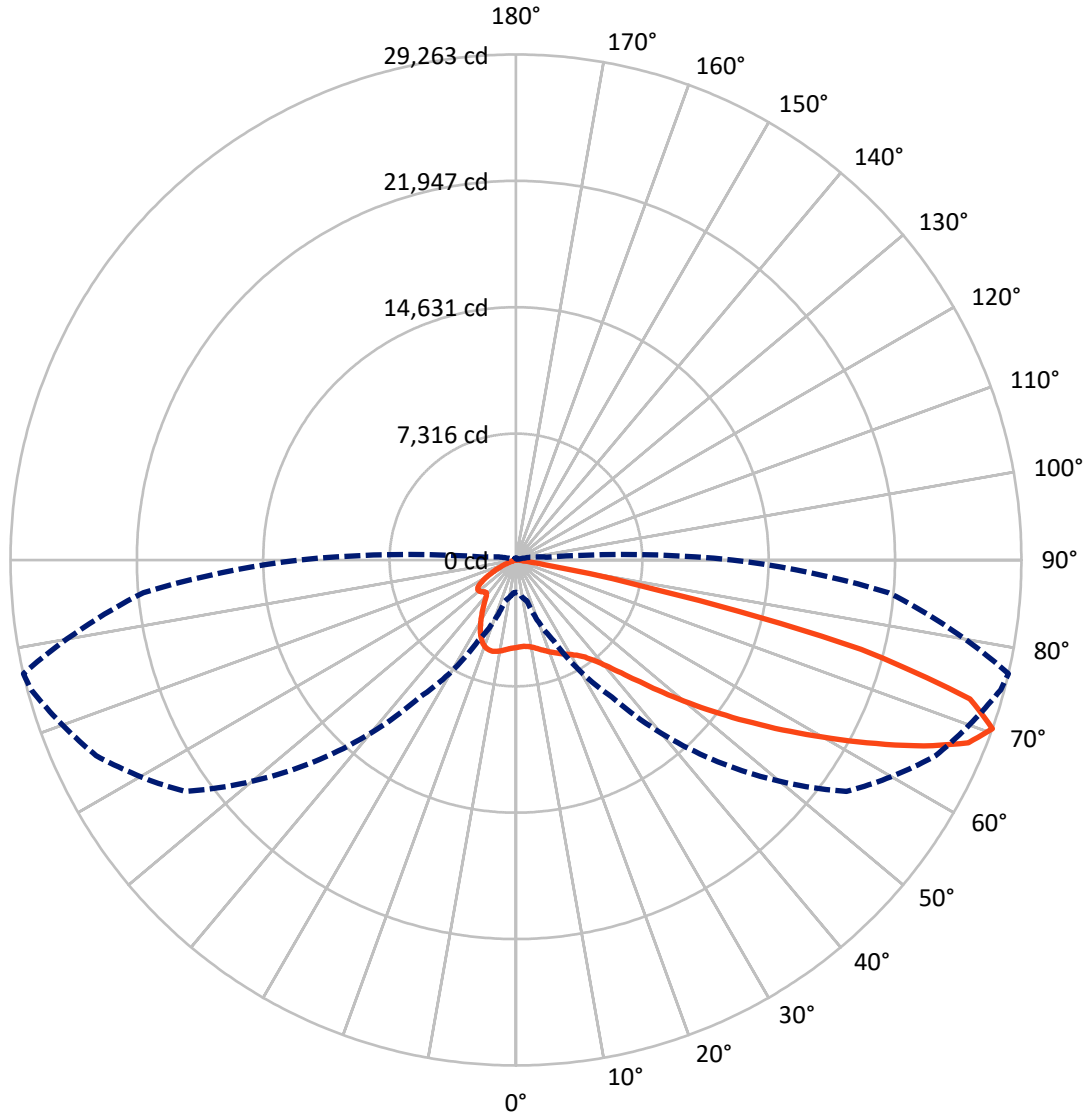
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	3423.5	0.0	3423.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	29053.5	0.0	29053.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	32477.0	0.0	32477.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.6	1.3
10°-20°	1036.4	3.2
20°-30°	1603.1	4.9
30°-40°	2908.8	9.0
40°-50°	5490.8	16.9
50°-60°	7933.7	24.4
60°-70°	8445.2	26.0
70°-80°	4475.4	13.8
80°-90°	147.0	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°	32477.0	100.0
0°-180°	32477.0	100.0

Coefficient of Utilization



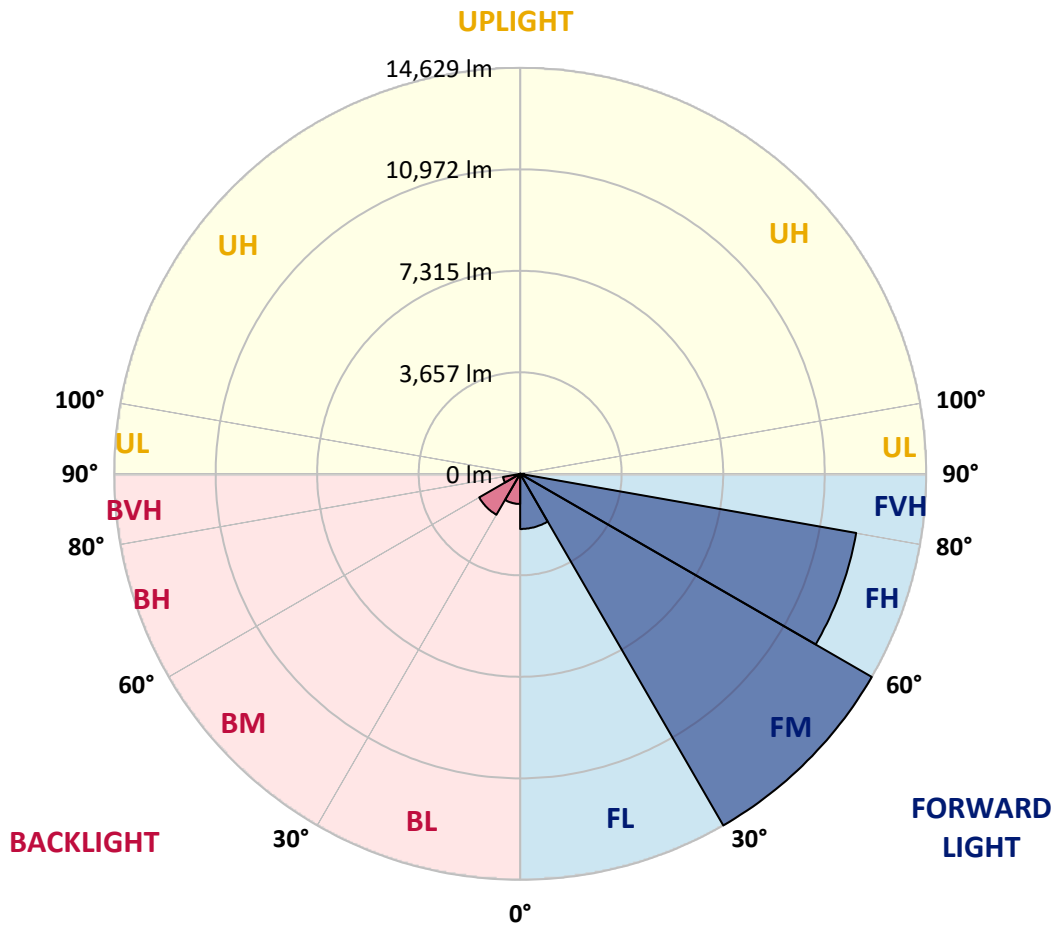
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1988.4	6.1			
FM (30°-60°)	14629.1	45.0			
FH (60°-80°)	12293.0	37.9			G5
FVH (80°-90°)	143.0	0.4			G2/225
BL (0°-30°)	1087.7	3.3	B3/2500		
BM (30°-60°)	1704.3	5.2	B2/2500		
BH (60°-80°)	627.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.0	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°	5065.8	5065.8	5065.8	5065.8	5065.8	5065.8	5065.8	5065.8	5065.8	5065.8
2.5°	4756.1	4799.2	4793.1	4821.8	4832.0	4873.0	4914.1	4969.4	5031.0	5028.9
5°	4487.5	4530.5	4540.8	4579.8	4629.0	4692.6	4776.6	4887.4	5002.2	5020.7
7.5°	4169.6	4214.7	4241.3	4319.3	4409.5	4540.8	4678.2	4840.2	5031.0	5057.6
10°	3851.7	3892.7	3927.6	4038.3	4181.9	4376.7	4600.3	4834.1	5090.4	5129.4
12.5°	3654.8	3693.7	3732.7	3829.1	4007.5	4245.4	4549.0	4862.8	5188.9	5244.3
15°	3585.0	3619.9	3650.7	3736.8	3902.9	4173.7	4538.7	4922.3	5314.0	5387.8
17.5°	3595.3	3613.8	3634.3	3699.9	3861.9	4140.9	4557.2	5024.8	5461.7	5527.3
20°	3654.8	3665.0	3667.1	3712.2	3855.8	4136.7	4594.1	5123.3	5601.1	5689.3
22.5°	3730.7	3734.8	3730.7	3761.4	3894.7	4167.5	4643.3	5242.2	5757.0	5839.0
25°	4085.5	4007.5	3909.1	3849.6	3960.4	4227.0	4717.2	5402.2	5927.2	6007.2
27.5°	5186.8	4963.3	4610.5	4214.7	4095.7	4313.1	4819.7	5564.2	6099.5	6171.3
30°	6975.3	6682.0	6083.1	5190.9	4530.5	4493.6	4953.0	5726.2	6282.0	6360.0
32.5°	8767.8	8696.0	8004.8	6770.2	5508.8	4895.6	5174.5	5945.7	6524.0	6585.6
35°	10580.8	10435.2	9869.1	8648.8	7016.3	5713.9	5543.7	6232.8	6841.9	6911.7
37.5°	11969.3	11881.1	11530.4	10525.4	8804.7	6977.3	6175.4	6677.9	7303.4	7381.3
40°	13195.8	13154.7	13035.8	12373.3	10804.4	8630.4	7157.8	7367.0	7943.3	8035.6
42.5°	14159.7	14256.1	14323.8	14139.2	12865.6	10517.2	8478.6	8335.0	8835.5	8929.8
45°	15146.2	15179.0	15451.8	15718.4	14912.4	12490.2	9967.6	9469.2	9945.0	10061.9
47.5°	15779.9	15911.2	16391.1	16860.8	16633.1	14446.8	11567.3	10808.5	11231.0	11450.4
50°	15827.1	16075.3	16735.7	17554.0	17886.3	16309.1	13306.5	12334.4	12783.5	13025.5
52.5°	15041.6	15427.2	16450.6	17648.4	18563.1	17886.3	15105.2	13860.3	14436.6	14752.4
55°	11532.4	12037.0	15378.0	17135.6	18589.7	19082.0	16856.7	15449.7	16278.3	16635.2
57.5°	10047.6	10301.9	12090.3	16245.5	18095.5	19563.9	18440.0	16963.3	18282.1	18725.1
60°	8359.6	8693.9	10139.9	14789.3	17424.8	19611.1	19838.8	18915.8	20454.0	20952.4
62.5°	5681.1	6044.1	7481.8	12287.2	16508.0	19588.5	20985.2	20925.8	22868.0	23403.3
65°	3519.4	3747.1	4694.6	10033.2	15226.2	19613.2	22185.0	23366.4	25415.3	25958.8
67.5°	2781.1	2885.7	3380.0	7703.3	13017.3	19059.4	23382.8	25661.4	27812.8	28243.5
70°	1868.4	1932.0	2459.1	5164.3	9684.5	16503.9	23360.2	26814.0	29047.5	29262.8
72.5°	984.5	1033.7	1437.7	2391.4	5849.3	11731.4	19691.1	25435.8	27819.0	27494.9
75°	492.2	574.3	968.0	1214.2	2498.0	6542.5	12227.7	20054.1	21895.9	20640.7
77.5°	373.3	451.2	799.9	799.9	869.6	2202.7	5178.6	10937.7	10088.6	8400.7
80°	237.9	307.6	699.4	605.0	363.0	559.9	1349.5	3064.1	2143.2	1630.5
82.5°	139.5	201.0	582.5	399.9	203.0	207.1	381.5	652.2	555.8	432.7
85°	55.4	131.3	399.9	157.9	80.0	51.3	114.9	139.5	114.9	86.1
87.5°	0.0	30.8	69.7	0.0	6.2	4.1	8.2	10.3	10.3	8.2
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°
5065.8	0°	5065.8	5065.8	5065.8	5065.8	5065.8	5065.8	5065.8	5065.8	5065.8	5065.8
5069.9	2.5°	5088.4	5092.5	5104.8	5106.8	5078.1	5041.2	5026.9	5020.7	4996.1	4994.0
5102.7	5°	5149.9	5168.4	5149.9	5096.6	4969.4	4791.0	4655.6	4544.9	4444.4	4413.6
5215.5	7.5°	5273.0	5291.4	5236.1	5026.9	4706.9	4352.1	4032.2	3806.5	3603.5	3527.6
5353.0	10°	5449.4	5474.0	5299.6	4877.1	4311.1	3740.9	3199.5	2818.0	2520.6	2399.6
5539.6	12.5°	5670.9	5681.1	5334.5	4649.5	3796.3	2982.1	2215.0	1806.9	1542.3	1443.9
5765.2	15°	5914.9	5900.6	5338.6	4339.8	3094.9	2108.4	1445.9	1187.5	1080.8	1048.0
5990.8	17.5°	6171.3	6111.8	5256.6	3892.7	2325.8	1441.8	1072.6	1011.1	992.7	984.5
6214.4	20°	6423.5	6290.2	5106.8	3308.2	1669.5	1076.7	974.2	955.7	945.5	941.4
6440.0	22.5°	6653.3	6425.6	4850.5	2629.3	1212.1	951.6	920.9	904.5	886.0	877.8
6659.4	25°	6876.8	6503.5	4489.5	1995.6	970.1	890.1	865.5	834.7	810.1	799.9
6895.3	27.5°	7094.2	6552.8	4038.3	1476.7	865.5	832.7	787.6	744.5	726.0	721.9
7147.5	30°	7326.0	6569.2	3525.6	1101.4	801.9	760.9	695.3	646.0	635.8	637.8
7488.0	32.5°	7609.0	6593.8	3008.7	902.4	748.6	674.8	596.8	545.6	537.3	545.6
7984.3	35°	7947.4	6643.0	2510.4	830.6	701.4	586.6	502.5	459.4	451.2	457.4
8620.1	37.5°	8406.8	6723.0	2044.8	816.3	662.5	512.7	422.5	387.6	387.6	389.7
9399.5	40°	9018.0	6936.3	1628.4	806.0	641.9	457.4	356.9	342.5	348.7	352.8
10392.1	42.5°	9762.5	7389.5	1347.5	793.7	619.4	432.7	324.0	317.9	328.2	332.3
11581.7	45°	10597.2	7963.8	1249.0	773.2	598.9	449.2	309.7	301.5	313.8	315.8
12914.8	47.5°	11460.7	8525.8	1236.7	750.6	578.4	473.8	305.6	287.1	301.5	303.5
14338.1	50°	12334.4	8892.9	1249.0	715.8	545.6	473.8	307.6	272.8	285.1	291.2
15814.8	52.5°	13214.2	9061.1	1240.8	639.9	488.1	445.1	307.6	260.5	272.8	276.9
17410.4	55°	14067.4	9028.2	1115.7	527.1	414.3	393.8	299.4	250.2	258.4	260.5
18917.9	57.5°	14742.2	8570.9	884.0	410.2	336.4	328.2	272.8	237.9	244.1	242.0
20300.2	60°	15094.9	7565.9	631.7	315.8	264.6	258.4	240.0	221.5	225.6	215.3
21471.3	62.5°	15099.0	6236.9	422.5	250.2	211.2	205.1	205.1	198.9	194.8	174.3
22377.8	65°	14777.0	4762.3	281.0	198.9	170.2	160.0	172.3	170.2	155.9	127.2
22654.7	67.5°	14046.9	3121.5	213.3	155.9	131.3	125.1	137.4	143.6	133.3	106.6
21645.6	70°	12545.6	1817.1	176.4	121.0	98.4	92.3	110.8	123.1	110.8	86.1
18501.5	72.5°	10420.8	980.4	143.6	90.2	67.7	61.5	88.2	100.5	88.2	63.6
11870.8	75°	6762.0	525.0	110.8	59.5	34.9	39.0	65.6	73.8	61.5	41.0
3484.5	77.5°	2270.4	231.8	69.7	28.7	16.4	16.4	39.0	45.1	28.7	14.4
633.7	80°	506.6	96.4	28.7	12.3	6.2	6.2	8.2	8.2	4.1	0.0
194.8	82.5°	166.1	39.0	12.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
49.2	85°	63.6	14.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.4	87.5°	24.6	2.1	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>
5065.8
4998.1
4395.2
3496.9
2348.3
1413.1
1048.0
982.4
937.3
875.8
795.8
717.8
637.8
543.5
455.3
387.6
352.8
332.3
317.9
305.6
293.3
276.9
260.5
242.0
213.3
168.2
123.1
104.6
<i>82.0</i>
61.5
36.9
12.3
0.0
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