

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: P943216

Luminaire Tested: **GALN-SB7C-830-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7C-830-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

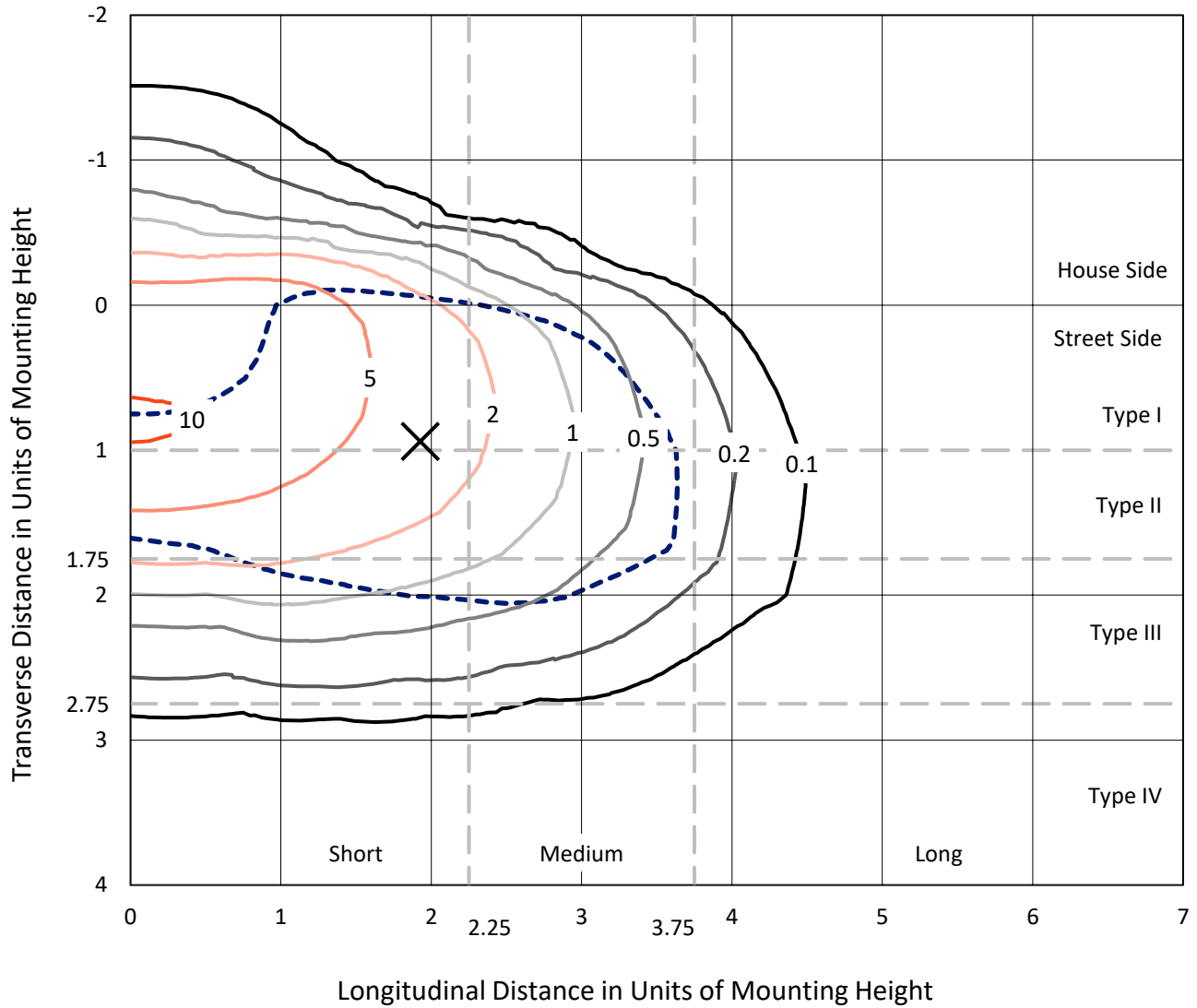
Lumens per Lamp: N/A  
Luminaire Lumens: 37533 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

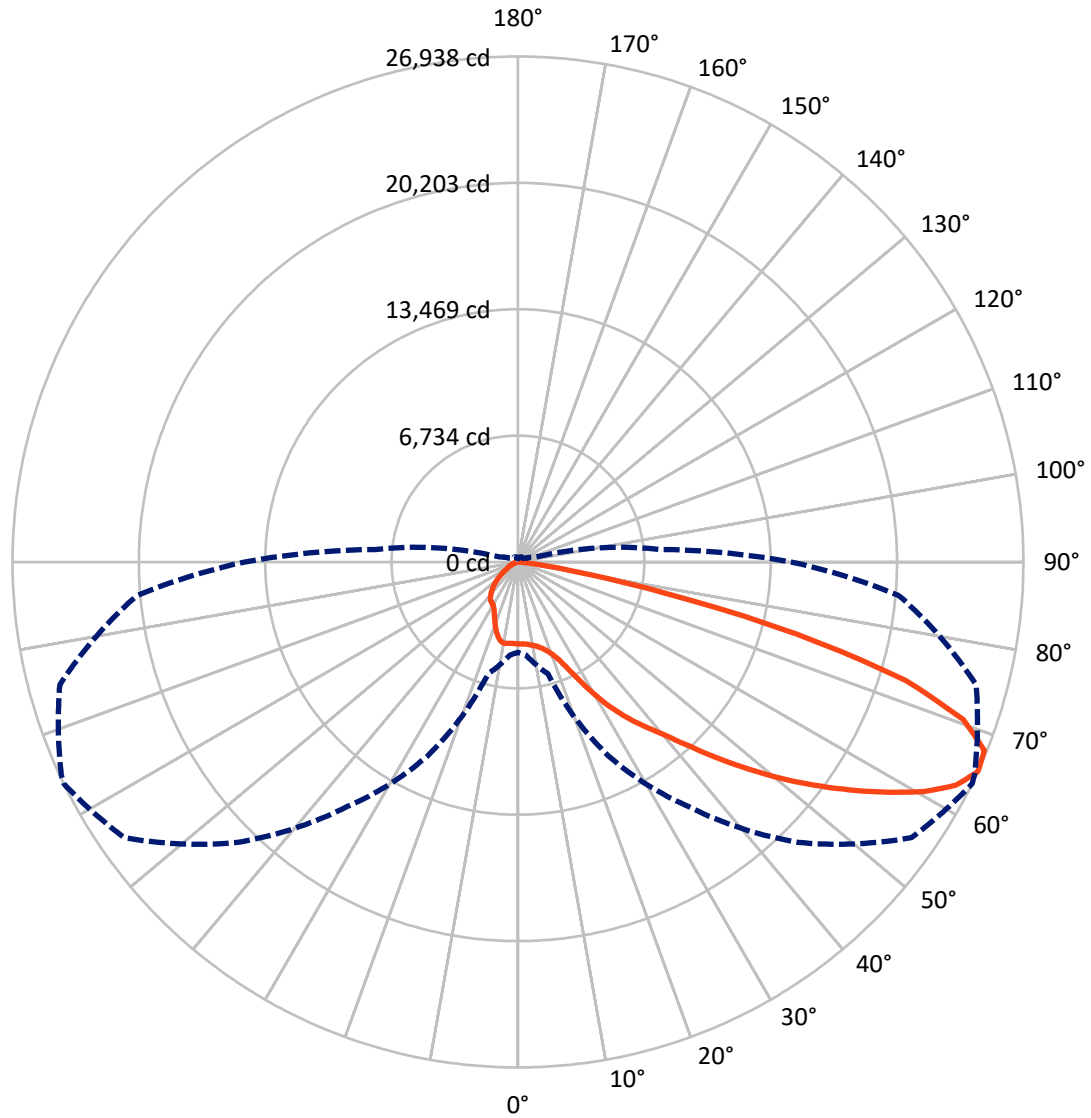
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5019.3	0.0	5019.3
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	32513.7	0.0	32513.7
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	37533.0	0.0	37533.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.8	1.1
10°-20°	1092.4	2.9
20°-30°	2070.0	5.5
30°-40°	4188.7	11.2
40°-50°	7135.5	19.0
50°-60°	9703.7	25.9
60°-70°	9112.3	24.3
70°-80°	3650.8	9.7
80°-90°	176.9	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°	37533.0	100.0
0°-180°	37533.0	100.0

**Coefficient of Utilization**



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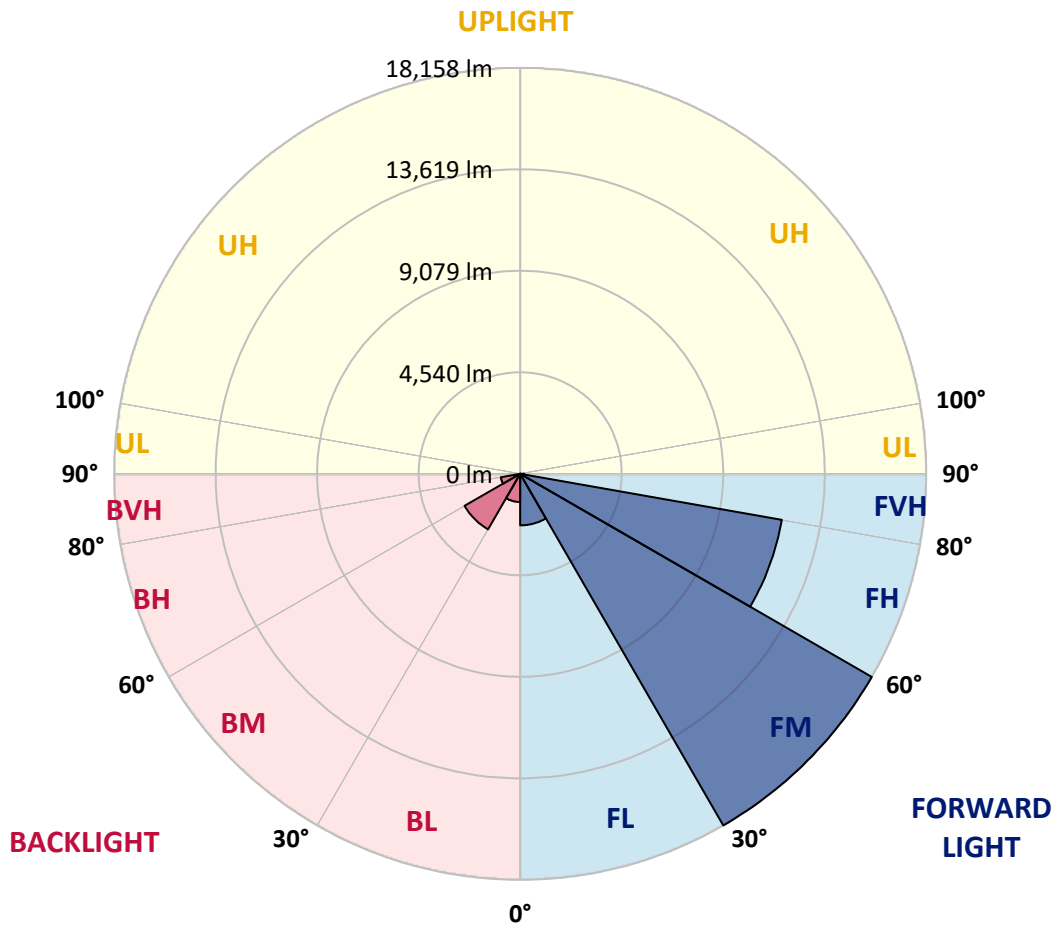
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2305.0	6.1			
FM (30°-60°)	18158.4	48.4			
FH (60°-80°)	11882.1	31.7			G4/12000
FVH (80°-90°)	168.2	0.4			G2/225
BL (0°-30°)	1260.2	3.4	B3/2500		
BM (30°-60°)	2869.5	7.6	B3/5000		
BH (60°-80°)	881.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.6	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-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4365.5	4365.5	4365.5	4365.5	4365.5	4365.5	4365.5	4365.5	4365.5	4365.5
2.5°	4350.4	4380.6	4373.0	4365.5	4363.0	4368.0	4370.5	4368.0	4368.0	4368.0
5°	4267.3	4292.5	4292.5	4310.1	4335.3	4365.5	4388.1	4393.2	4398.2	4405.7
7.5°	4108.8	4129.0	4144.1	4201.9	4264.8	4345.3	4413.3	4448.5	4453.5	4481.2
10°	4000.6	4025.8	4051.0	4111.3	4201.9	4322.7	4438.4	4524.0	4536.6	4602.0
12.5°	3995.6	4020.8	4053.5	4118.9	4224.6	4352.9	4493.8	4617.1	4639.7	4735.3
15°	4048.4	4078.6	4108.8	4189.3	4302.6	4458.6	4609.5	4763.0	4785.7	4921.5
17.5°	4156.6	4196.9	4219.5	4300.1	4420.8	4594.4	4793.2	4969.3	4989.5	5148.0
20°	4370.5	4418.3	4425.9	4491.3	4609.5	4795.7	5032.3	5251.2	5276.3	5457.5
22.5°	4813.3	4881.3	4820.9	4853.6	4959.3	5145.5	5402.1	5678.9	5714.1	5920.4
25°	5593.3	5689.0	5533.0	5477.6	5522.9	5716.6	6038.7	6388.4	6428.7	6594.8
27.5°	7125.7	7002.4	6765.9	6534.4	6398.5	6509.2	6871.5	7304.3	7354.6	7515.7
30°	8809.0	8700.8	8381.2	7867.9	7545.9	7528.2	7862.9	8346.0	8403.9	8557.3
32.5°	10494.8	10391.6	10044.4	9412.8	8854.2	8577.5	8809.0	9344.9	9375.1	9473.2
35°	12152.9	12047.2	11700.0	11053.3	10366.4	9737.4	9692.1	10296.0	10306.0	10409.2
37.5°	13821.1	13733.0	13363.1	12729.1	12052.2	11184.2	10764.0	11196.8	11209.3	11310.0
40°	15011.2	15048.9	14794.8	14304.2	13722.9	12774.4	11966.7	12155.4	12079.9	12248.5
42.5°	16032.8	16108.2	15886.8	15640.2	15303.1	14467.7	13456.2	13423.5	13302.8	13393.3
45°	16915.9	16978.8	16780.0	16722.2	16714.6	16128.4	15084.2	14887.9	14719.3	14701.7
47.5°	17240.5	17361.3	17446.8	17640.6	18018.0	17771.4	16767.5	16463.0	16274.3	16135.9
50°	17363.8	17492.1	17784.0	18347.6	19240.8	19346.5	18443.2	18101.0	17869.5	17617.9
52.5°	17197.7	17426.7	17819.2	18767.8	20063.6	20609.6	20051.0	19751.6	19487.4	19077.3
55°	16218.9	16447.9	17250.6	18762.7	20473.7	21495.3	21570.7	21437.4	21140.5	20493.8
57.5°	14155.7	14495.4	15766.0	18123.7	20466.2	22257.6	23060.3	23155.9	22823.8	21897.8
60°	11297.4	11757.9	13307.8	16707.1	19834.6	22670.3	24366.2	24844.2	24492.0	23281.7
62.5°	7883.0	8416.4	9883.3	14487.9	18390.4	22373.4	25319.8	26202.9	25936.2	24519.6
65°	4808.3	4979.4	6162.0	11400.6	15934.6	21130.4	25614.2	26937.6	26849.6	25277.0
67.5°	3203.0	3346.4	3686.1	7817.6	12369.3	18647.0	24909.6	26809.3	26834.5	25153.7
70°	1929.9	2053.2	2274.6	4546.6	8016.4	14759.6	22728.2	25173.8	25319.8	23505.6
72.5°	795.1	878.1	1079.4	2060.7	4151.6	9367.5	18098.5	21613.5	21953.2	19764.2
75°	450.4	493.2	634.1	1034.1	1801.5	4365.5	10962.8	15343.3	15844.0	13622.3
77.5°	299.4	319.5	410.1	669.3	1014.0	1489.5	4685.0	7993.7	8949.9	7440.2
80°	201.3	218.9	281.8	447.9	659.2	639.1	1492.1	2961.5	3643.3	2556.4
82.5°	135.9	138.4	201.3	294.4	417.7	309.5	440.3	920.9	1157.4	739.7
85°	78.0	75.5	148.5	171.1	186.2	128.3	133.4	276.8	362.3	312.0
87.5°	10.1	15.1	57.9	45.3	25.2	27.7	27.7	47.8	70.5	75.5
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°
4365.5	0°	4365.5	4365.5	4365.5	4365.5	4365.5	4365.5	4365.5	4365.5	4365.5	4365.5
4370.5	2.5°	4370.5	4368.0	4360.4	4352.9	4335.3	4325.2	4330.3	4325.2	4322.7	4325.2
4403.2	5°	4403.2	4395.7	4375.5	4350.4	4315.2	4272.4	4244.7	4204.4	4166.7	4144.1
4491.3	7.5°	4491.3	4483.7	4456.1	4385.6	4272.4	4093.7	3930.2	3786.8	3678.6	3615.7
4632.2	10°	4632.2	4619.6	4576.8	4420.8	4123.9	3733.9	3409.3	3140.1	2964.0	2881.0
4798.3	12.5°	4798.3	4783.2	4707.7	4388.1	3842.1	3233.2	2785.4	2485.9	2322.4	2249.4
4989.5	15°	4994.5	4974.4	4825.9	4232.1	3432.0	2679.7	2269.5	2045.6	1939.9	1874.5
5233.5	17.5°	5238.6	5203.3	4914.0	3998.1	2986.6	2257.0	1952.5	1783.9	1690.8	1627.9
5553.1	20°	5555.6	5497.7	4984.4	3718.8	2576.5	1990.3	1738.6	1597.7	1527.3	1471.9
6006.0	22.5°	5998.4	5915.4	5070.0	3416.9	2287.2	1806.6	1580.1	1477.0	1419.1	1356.2
6637.5	25°	6547.0	6448.8	5175.7	3137.6	2088.4	1648.1	1464.4	1378.8	1310.9	1237.9
7465.3	27.5°	7314.4	7138.2	5301.5	2908.6	1917.3	1512.2	1358.7	1263.1	1185.1	1124.7
8403.9	30°	8169.9	7880.5	5412.2	2770.3	1761.3	1386.4	1220.3	1124.7	1051.7	1009.0
9246.8	32.5°	8980.1	8587.5	5485.2	2709.9	1620.4	1243.0	1069.4	966.2	910.8	898.3
10072.1	35°	9745.0	9226.6	5477.6	2652.0	1494.6	1099.5	920.9	815.2	772.5	780.0
10960.2	37.5°	10625.6	9908.5	5424.8	2561.4	1391.4	968.7	792.6	699.5	661.7	664.3
12039.7	40°	11649.7	10696.0	5392.1	2390.3	1278.2	847.9	686.9	611.4	583.7	573.7
13176.9	42.5°	12741.7	11458.4	5397.1	2196.6	1137.3	739.7	613.9	551.0	525.9	518.3
14442.6	45°	13838.7	12185.6	5404.6	1995.3	988.8	656.7	561.1	508.3	493.2	483.1
15725.8	47.5°	14870.3	12804.6	5263.7	1778.9	842.9	593.8	518.3	483.1	470.5	457.9
17014.0	50°	15831.5	13217.2	4924.1	1527.3	727.2	543.5	485.6	460.5	447.9	435.3
18181.5	52.5°	16578.8	13282.6	4363.0	1268.1	646.6	505.7	465.5	442.8	427.7	415.2
19125.1	55°	16910.9	12872.5	3565.3	1026.6	583.7	473.0	445.4	422.7	405.1	392.5
19867.3	57.5°	16825.3	12009.5	2780.3	825.3	523.4	440.3	420.2	405.1	385.0	364.8
20468.7	60°	16405.1	10854.6	2095.9	686.9	468.0	405.1	392.5	379.9	352.3	322.1
20700.2	62.5°	15678.0	9402.8	1494.6	568.6	407.6	364.8	359.8	349.7	309.5	254.1
20358.0	65°	14565.9	7639.0	1006.5	473.0	349.7	319.5	322.1	304.5	251.6	188.7
19104.9	67.5°	12940.4	5585.8	644.1	387.5	291.9	266.7	269.2	259.2	213.9	161.0
16729.7	70°	10869.7	3698.7	420.2	294.4	234.0	206.3	221.4	223.9	181.2	130.8
12839.8	72.5°	7968.6	2184.0	294.4	218.9	171.1	143.4	181.2	186.2	145.9	98.1
7724.5	75°	4541.6	1036.6	221.4	158.5	105.7	100.6	140.9	140.9	100.6	65.4
3343.9	77.5°	1907.2	432.8	156.0	103.2	60.4	57.9	95.6	88.1	50.3	30.2
815.2	80°	551.0	193.7	83.0	50.3	25.2	22.6	37.7	27.7	12.6	5.0
309.5	82.5°	216.4	85.5	32.7	20.1	10.1	10.1	5.0	0.0	0.0	0.0
176.1	85°	128.3	35.2	15.1	7.5	2.5	0.0	0.0	0.0	0.0	0.0
37.7	87.5°	32.7	7.5	5.0	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>
4365.5
4335.3
4149.1
3618.2
2873.4
2241.9
1877.0
1622.9
1461.9
1346.1
1230.4
1112.1
1001.4
905.8
780.0
674.3
571.2
515.8
483.1
457.9
435.3
412.6
390.0
362.3
317.0
249.1
183.7
153.5
125.8
93.1
60.4
30.2
5.0
0.0
0.0
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