

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: P956836

Luminaire Tested: **GALN-SB9B-840-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956836  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9B-840-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

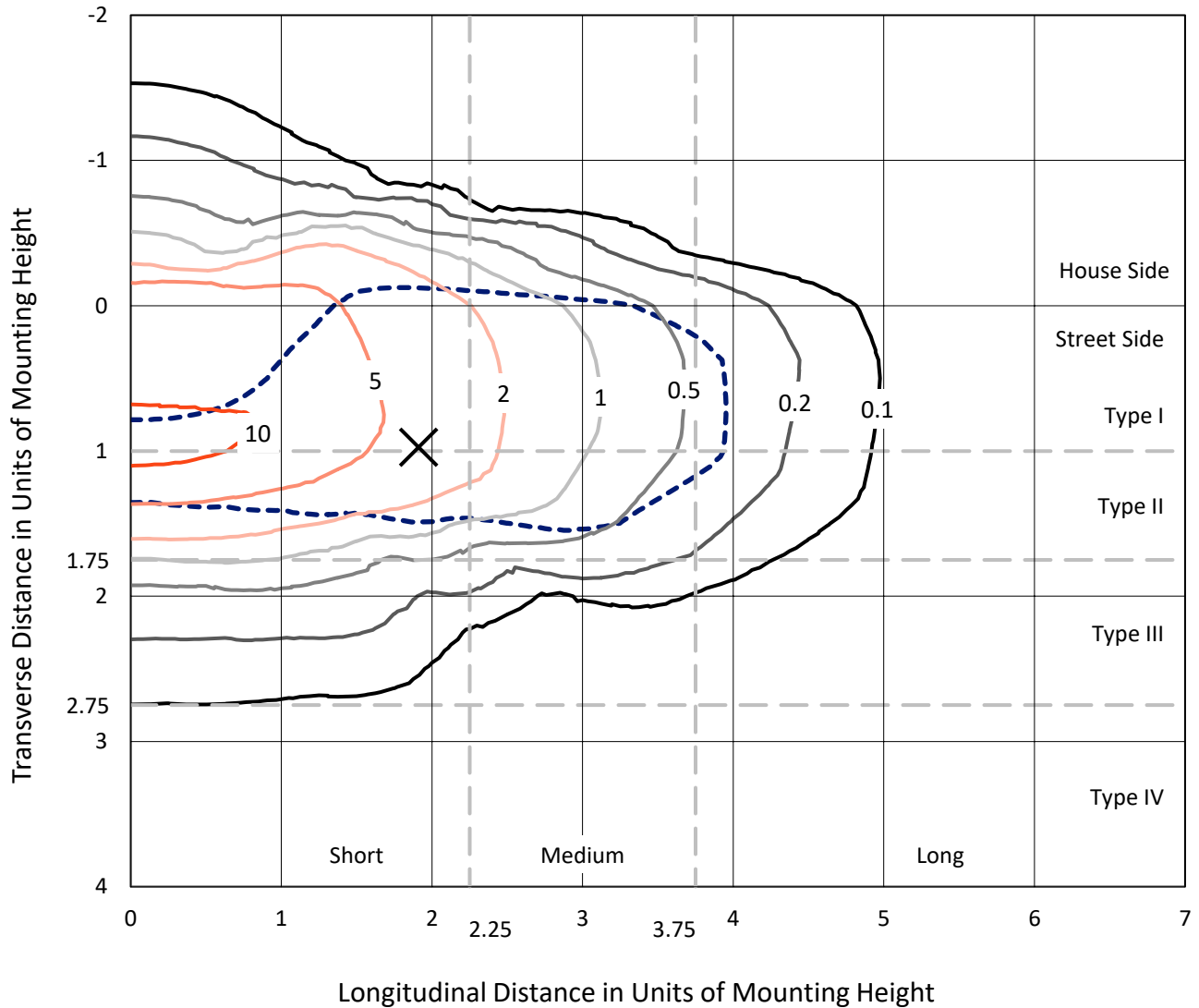
Lumens per Lamp: N/A  
Luminaire Lumens: 37494 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

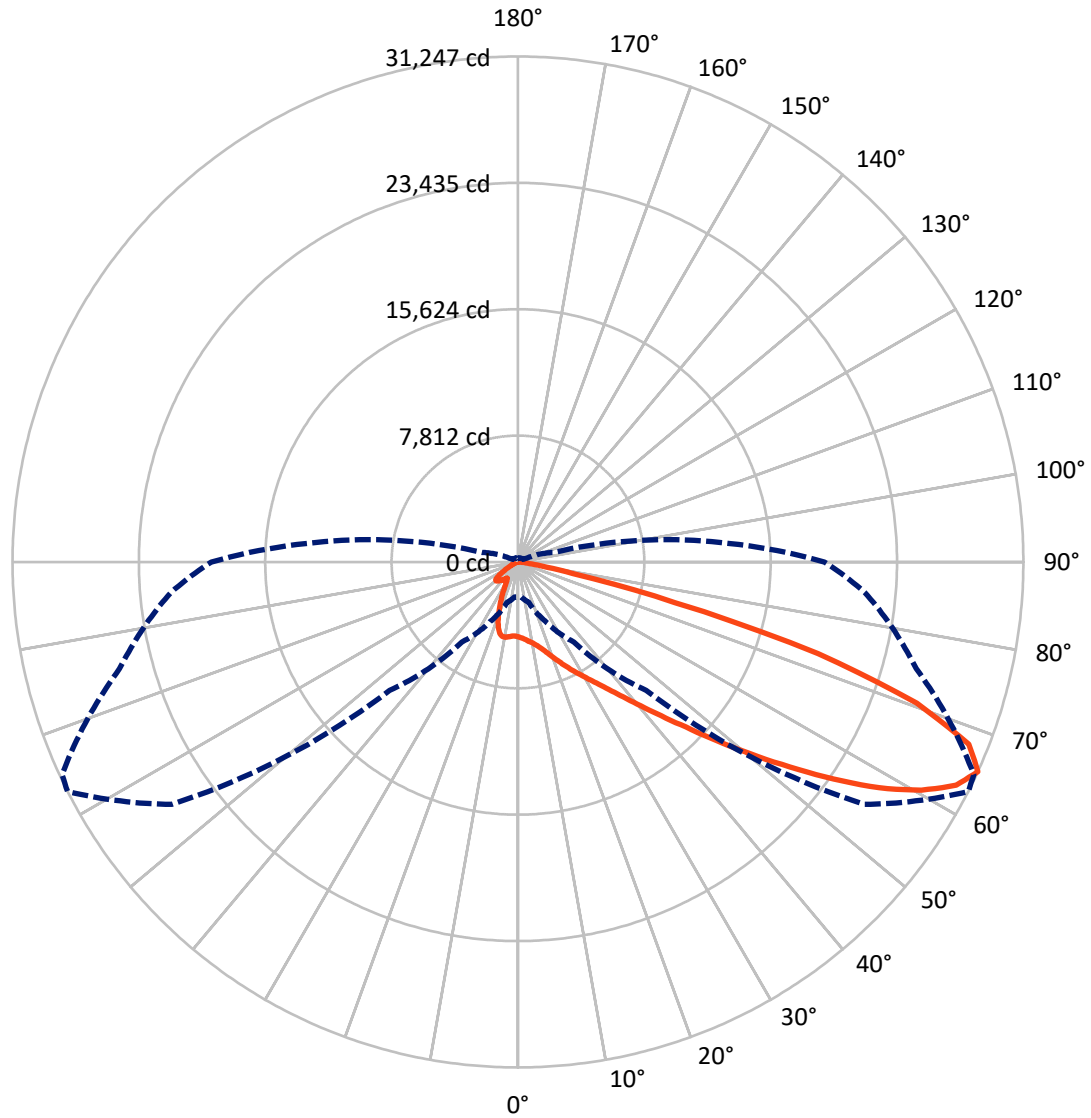
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5511.3	0.0	5511.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	31982.7	0.0	31982.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	37494.0	0.0	37494.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.0	1.2
10°-20°	1209.7	3.2
20°-30°	2106.4	5.6
30°-40°	3796.6	10.1
40°-50°	7529.9	20.1
50°-60°	10257.0	27.4
60°-70°	8187.1	21.8
70°-80°	3704.8	9.9
80°-90°	266.3	0.7
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°	37494.0	100.0
0°-180°	37494.0	100.0

**Coefficient of Utilization**



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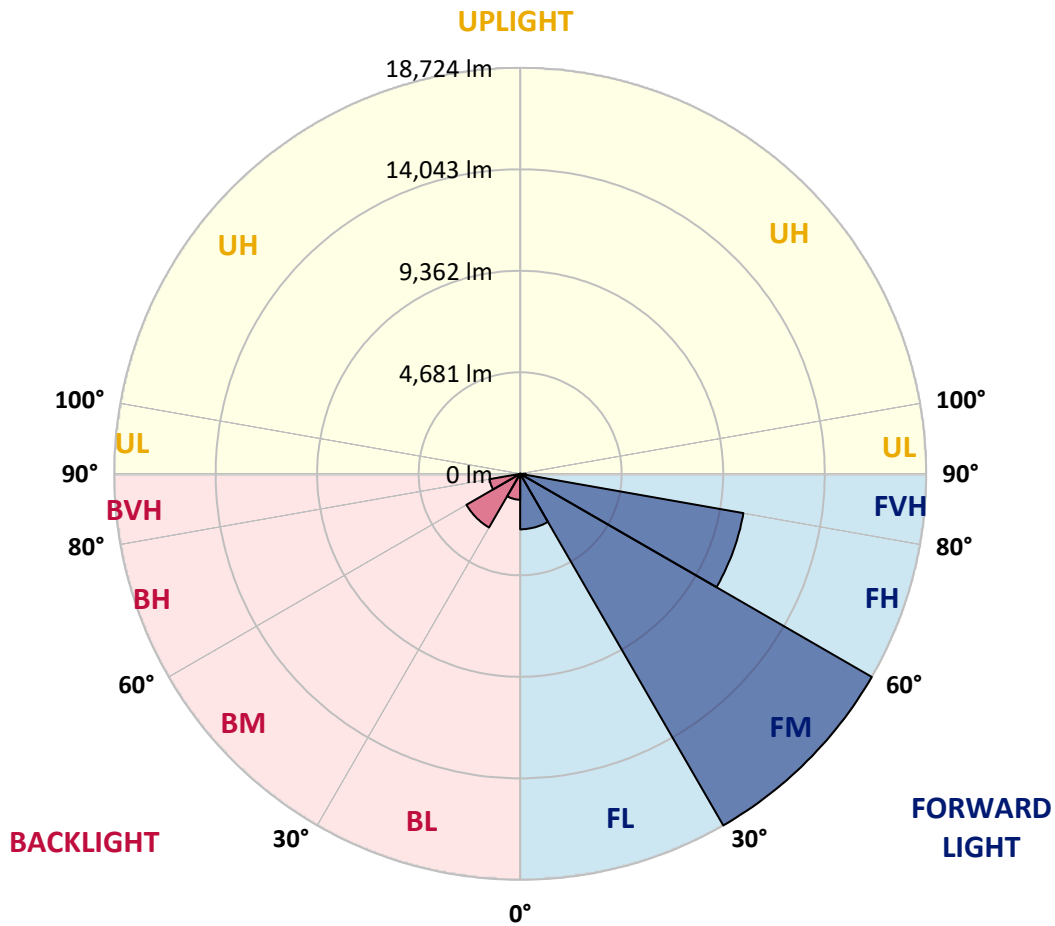
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2559.4	6.8			
FM (30°-60°)	18723.6	49.9			
FH (60°-80°)	10453.1	27.9			G4/12000
FVH (80°-90°)	246.5	0.7			G3/500
BL (0°-30°)	1192.7	3.2	B3/2500		
BM (30°-60°)	2860.0	7.6	B3/5000		
BH (60°-80°)	1438.8	3.8	B3/2500		G3/2500
BVH (80°-90°)	19.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	4627.5	4627.5	4627.5	4627.5	4627.5	4627.5	4627.5	4627.5	4627.5	4627.5
2.5°	4735.8	4722.9	4741.0	4733.2	4728.1	4717.7	4712.6	4707.4	4697.1	4689.4
5°	4748.7	4741.0	4759.0	4774.5	4790.0	4805.4	4813.2	4823.5	4813.2	4792.6
7.5°	4640.4	4635.2	4673.9	4720.3	4790.0	4849.3	4913.8	4949.9	4952.5	4944.7
10°	4632.6	4619.7	4658.4	4715.2	4805.4	4911.2	5024.7	5102.1	5112.4	5145.9
12.5°	4753.9	4741.0	4795.1	4857.0	4949.9	5060.8	5200.1	5308.4	5323.9	5370.3
15°	4957.6	4939.6	5001.5	5081.4	5200.1	5326.5	5473.5	5571.5	5584.4	5641.2
17.5°	5194.9	5176.9	5249.1	5334.2	5463.2	5636.0	5806.3	5914.6	5930.1	5966.2
20°	5499.3	5476.1	5532.8	5610.2	5746.9	5953.3	6157.1	6311.8	6309.2	6309.2
22.5°	5852.7	5816.6	5865.6	5927.5	6056.5	6306.7	6577.5	6760.6	6760.6	6688.4
25°	6231.9	6195.8	6249.9	6306.7	6420.2	6703.9	7021.2	7248.2	7258.5	7134.7
27.5°	6706.5	6660.0	6701.3	6768.4	6835.4	7124.3	7500.9	7764.0	7769.2	7578.3
30°	7619.6	7488.0	7359.1	7286.8	7317.8	7604.1	8006.5	8298.0	8323.8	8060.7
32.5°	9291.0	9265.3	8811.3	8218.0	7908.5	8120.0	8571.4	8922.2	8937.7	8599.8
35°	11888.5	11857.6	11127.6	9997.8	8989.3	8811.3	9257.5	9672.8	9662.5	9280.7
37.5°	14989.0	14960.6	13998.5	12486.9	10854.2	9855.9	10142.3	10578.2	10642.7	10142.3
40°	17638.0	17532.3	16923.5	15466.2	13330.4	11589.3	11401.0	11689.9	11757.0	11163.7
42.5°	19644.8	19554.5	19245.0	18334.5	16327.7	14153.2	12884.2	12995.1	13069.9	12358.0
45°	20684.3	20663.7	20787.5	20702.4	19381.7	17300.1	15004.4	14542.7	14571.1	13681.2
47.5°	20831.3	20821.0	21385.9	22185.5	22007.6	20849.4	17725.7	16472.1	16371.5	15174.7
50°	19964.7	19944.0	21027.4	22526.0	23761.6	23831.2	20815.9	18646.6	18424.8	16719.8
52.5°	17197.0	17191.8	18971.6	21465.9	24378.0	26441.6	23869.9	21035.1	20663.7	18355.1
55°	13232.4	13327.8	15368.1	18316.4	23253.4	27697.7	26611.8	23686.8	23116.7	20000.8
57.5°	9373.6	9512.9	11530.0	14155.8	19766.0	26954.9	28466.4	26343.6	25729.7	21641.3
60°	5035.0	5158.8	7178.5	10312.5	14705.2	24184.6	29444.0	28649.5	28069.2	23199.2
62.5°	2999.9	3041.1	3876.9	6657.5	9946.2	18476.3	29028.7	30406.1	29928.9	24507.0
65°	2153.8	2161.5	2582.0	4065.2	6038.4	11225.6	26116.6	31247.0	31100.0	25492.3
67.5°	1813.3	1808.2	1983.6	2700.6	4114.2	5623.1	20016.2	30057.9	30682.1	26116.6
70°	1555.4	1563.1	1769.5	1978.4	3092.7	3183.0	9951.4	26170.7	27501.7	26281.6
72.5°	1158.2	1184.0	1374.8	1803.0	2334.4	2189.9	3435.8	19404.9	21811.5	24762.4
75°	817.7	830.6	967.3	1516.7	1741.1	1594.1	1754.0	10031.3	13116.3	18984.5
77.5°	629.4	652.6	732.6	1060.1	1715.3	1119.5	1073.0	3471.9	5334.2	11468.1
80°	340.5	381.8	528.8	766.1	1204.6	791.9	531.4	1382.6	1808.2	5362.6
82.5°	175.4	196.0	368.9	552.0	686.1	691.3	263.1	575.2	745.5	1656.0
85°	69.6	85.1	247.6	304.4	353.4	340.5	118.7	232.1	268.3	459.1
87.5°	15.5	25.8	90.3	69.6	67.1	72.2	28.4	54.2	51.6	54.2
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°
4627.5	0°	4627.5	4627.5	4627.5	4627.5	4627.5	4627.5	4627.5	4627.5	4627.5	4627.5
4658.4	2.5°	4655.8	4645.5	4617.2	4586.2	4550.1	4529.5	4516.6	4514.0	4495.9	4483.0
4761.6	5°	4733.2	4722.9	4668.7	4604.3	4534.6	4480.4	4428.9	4382.4	4315.4	4302.5
4911.2	7.5°	4888.0	4859.6	4771.9	4684.2	4552.7	4395.3	4204.4	3985.2	3789.2	3729.8
5109.8	10°	5078.9	5040.2	4929.3	4774.5	4483.0	4054.8	3593.1	3164.9	2824.5	2729.0
5344.5	12.5°	5295.5	5262.0	5115.0	4828.7	4191.5	3415.1	2708.4	2177.0	1846.9	1764.3
5594.7	15°	5553.5	5504.5	5300.7	4746.1	3670.5	2594.9	1859.8	1545.1	1426.4	1410.9
5881.1	17.5°	5826.9	5746.9	5465.8	4449.5	2968.9	1844.3	1436.7	1346.5	1294.9	1279.4
6170.0	20°	6077.1	5973.9	5563.8	4000.7	2218.3	1436.7	1287.1	1227.8	1181.4	1163.3
6458.9	22.5°	6327.3	6180.3	5563.8	3389.3	1663.7	1274.2	1181.4	1127.2	1073.0	1049.8
6768.4	25°	6587.8	6391.8	5465.8	2708.4	1338.7	1168.5	1080.8	1021.4	975.0	946.6
7062.4	27.5°	6840.6	6569.8	5241.4	2063.5	1191.7	1075.6	987.9	931.2	887.3	866.7
7382.3	30°	7080.5	6745.2	4926.7	1565.7	1096.3	985.3	902.8	853.8	809.9	789.3
7797.6	32.5°	7405.5	6967.0	4591.4	1284.5	1013.7	900.2	825.4	779.0	740.3	724.8
8336.7	35°	7856.9	7294.6	4302.5	1261.3	944.1	830.6	755.8	711.9	673.2	660.3
9033.1	37.5°	8496.6	7823.4	4150.3	1416.1	887.3	768.7	699.0	652.6	616.5	606.2
9917.8	40°	9285.9	8540.4	4232.8	1570.9	848.6	714.5	647.4	601.0	570.1	557.2
10934.1	42.5°	10222.2	9425.2	4689.4	1689.5	822.8	668.1	598.4	546.8	526.2	521.0
12087.1	45°	11297.8	10397.6	5388.4	1815.9	781.6	624.2	549.4	510.7	495.2	492.7
13340.7	47.5°	12520.5	11465.5	6198.3	1973.3	740.3	582.9	510.7	484.9	472.0	466.9
14648.5	50°	13732.8	12541.1	7031.5	2061.0	706.8	544.3	479.8	459.1	448.8	446.2
16031.1	52.5°	15001.9	13647.7	7704.7	1978.4	678.4	513.3	454.0	438.5	428.2	425.6
17305.3	55°	16211.6	14542.7	7820.8	1679.2	621.6	482.4	425.6	417.9	405.0	405.0
18597.6	57.5°	17253.7	14991.6	7000.5	1233.0	564.9	435.9	397.2	389.5	379.2	376.6
19763.5	60°	18210.7	14862.6	5403.9	830.6	503.0	389.5	361.1	356.0	345.6	332.7
20777.2	62.5°	18749.8	14295.1	3696.3	541.7	441.1	340.5	319.8	317.3	294.1	268.3
21527.8	65°	18953.5	13129.2	2306.0	394.7	368.9	291.5	276.0	270.8	237.3	208.9
21953.4	67.5°	18775.6	11210.1	1163.3	312.1	291.5	242.5	227.0	227.0	203.8	178.0
21927.6	70°	18063.6	8403.7	490.1	250.2	224.4	185.7	185.7	196.0	172.8	144.4
20790.1	72.5°	16518.6	5654.1	260.5	190.9	167.7	131.6	152.2	159.9	136.7	108.3
17016.4	75°	13131.8	3448.7	180.6	141.9	105.8	92.9	116.1	121.2	92.9	72.2
11666.7	77.5°	8981.5	1981.0	121.2	90.3	67.1	54.2	80.0	74.8	49.0	33.5
4498.5	80°	3943.9	825.4	69.6	41.3	25.8	20.6	28.4	20.6	15.5	10.3
616.5	82.5°	461.7	193.5	25.8	15.5	10.3	5.2	2.6	0.0	0.0	0.0
188.3	85°	95.4	23.2	12.9	5.2	2.6	0.0	0.0	0.0	0.0	0.0
33.5	87.5°	18.1	5.2	2.6	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>
4627.5
4495.9
4297.3
3701.5
2692.9
1741.1
1395.5
1271.7
1153.0
1036.9
936.3
866.7
791.9
724.8
660.3
603.6
554.6
521.0
490.1
466.9
446.2
425.6
402.4
374.0
330.2
263.1
206.4
175.4
141.9
108.3
69.6
36.1
10.3
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