

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: P955429

Luminaire Tested: **GALN-SB8B-850-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955429  
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-SB8B-850-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

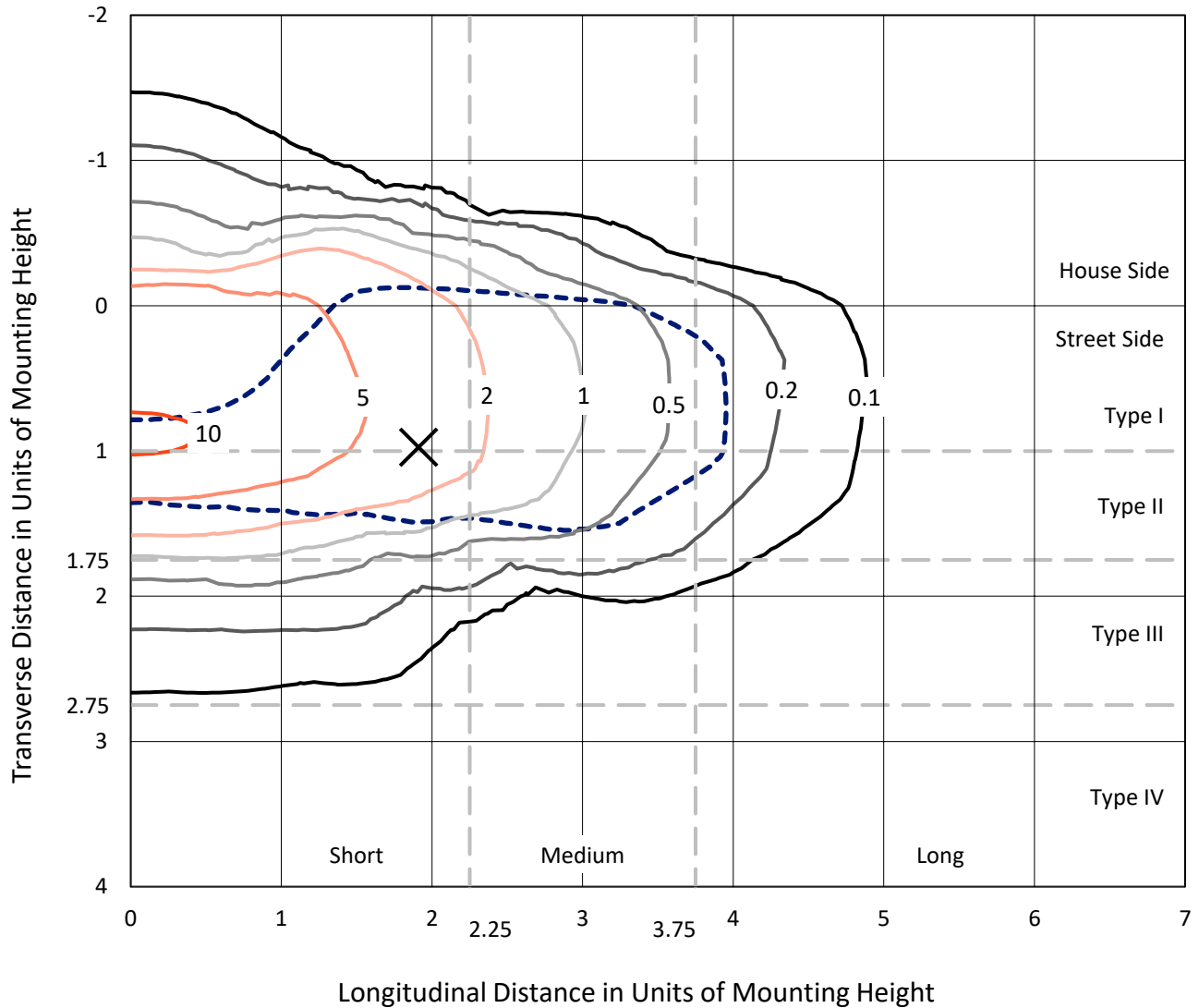
Lumens per Lamp: N/A  
Luminaire Lumens: 33286 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

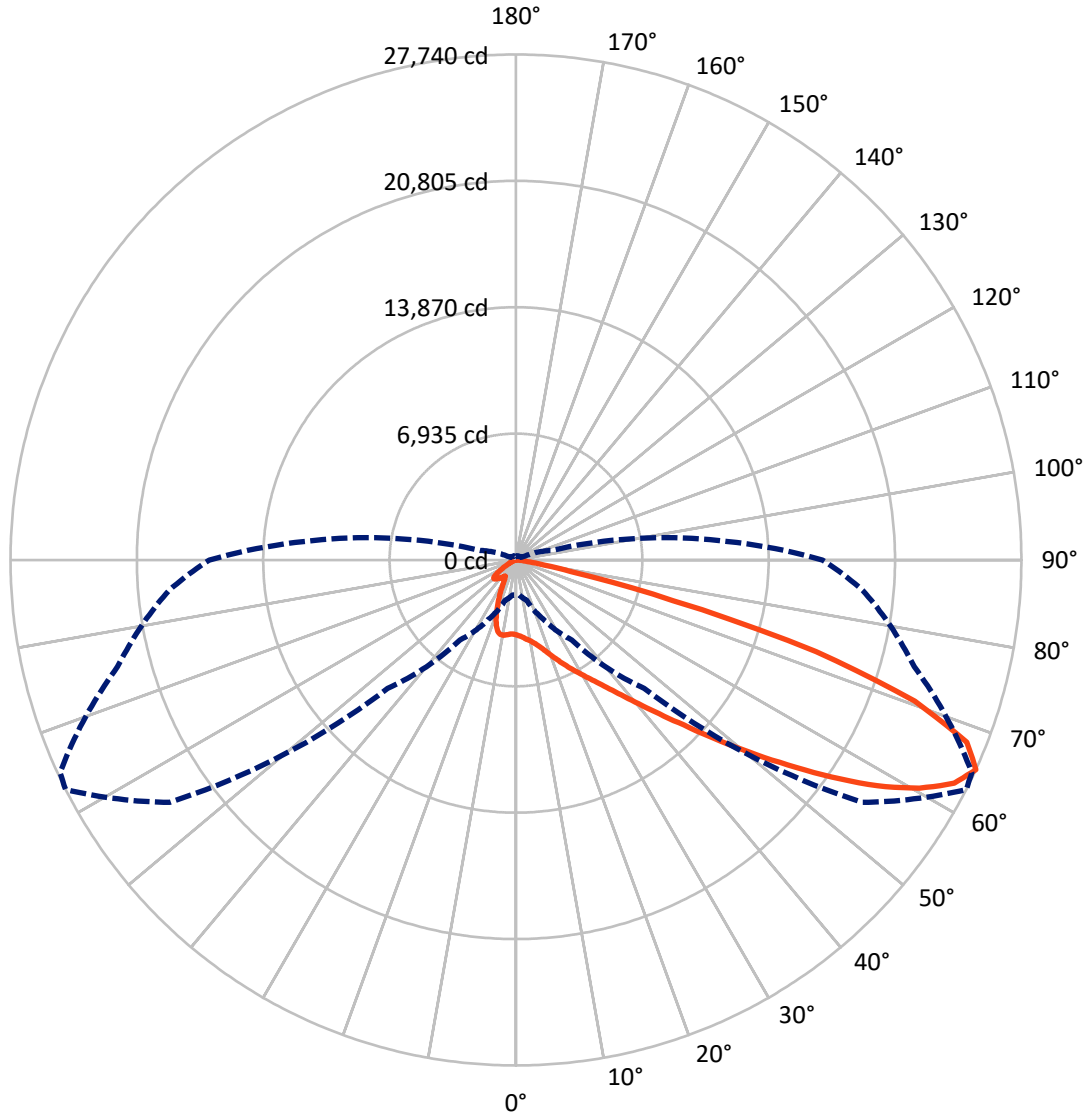
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	4892.8	0.0	4892.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	28393.2	0.0	28393.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	33286.0	0.0	33286.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.1	1.2
10°-20°	1074.0	3.2
20°-30°	1870.0	5.6
30°-40°	3370.5	10.1
40°-50°	6684.8	20.1
50°-60°	9105.9	27.4
60°-70°	7268.2	21.8
70°-80°	3289.0	9.9
80°-90°	236.4	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°	33286.0	100.0
0°-180°	33286.0	100.0



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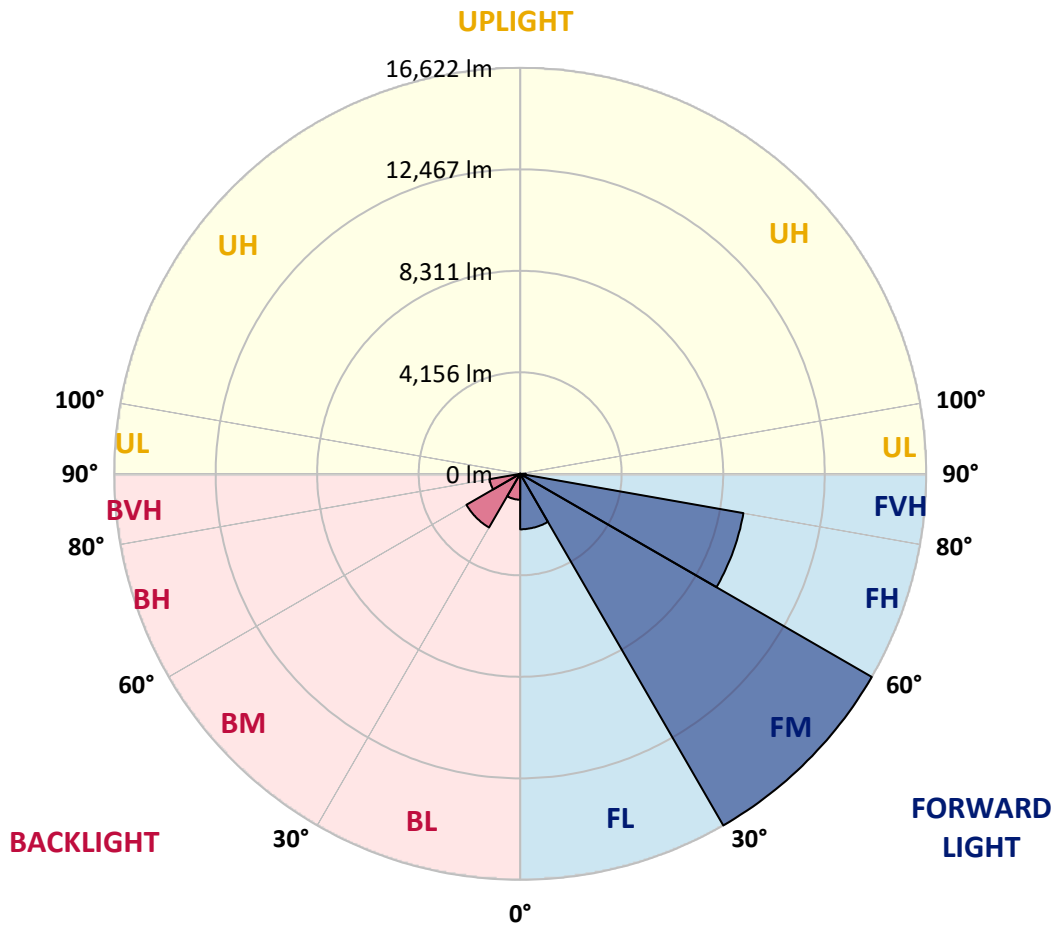
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2272.2	6.8			
FM (30°-60°)	16622.2	49.9			
FH (60°-80°)	9280.0	27.9			G4/12000
FVH (80°-90°)	218.9	0.7			G2/225
BL (0°-30°)	1058.9	3.2	B3/2500		
BM (30°-60°)	2539.1	7.6	B3/5000		
BH (60°-80°)	1277.3	3.8	B3/2500		G3/2500
BVH (80°-90°)	17.5	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°	4108.1	4108.1	4108.1	4108.1	4108.1	4108.1	4108.1	4108.1	4108.1	4108.1
2.5°	4204.3	4192.8	4208.9	4202.0	4197.4	4188.3	4183.7	4179.1	4169.9	4163.1
5°	4215.7	4208.9	4224.9	4238.6	4252.4	4266.1	4273.0	4282.2	4273.0	4254.7
7.5°	4119.6	4115.0	4149.3	4190.6	4252.4	4305.1	4362.3	4394.4	4396.7	4389.8
10°	4112.7	4101.3	4135.6	4186.0	4266.1	4360.0	4460.8	4529.5	4538.6	4568.4
12.5°	4220.3	4208.9	4257.0	4311.9	4394.4	4492.8	4616.5	4712.7	4726.4	4767.6
15°	4401.2	4385.2	4440.2	4511.1	4616.5	4728.7	4859.2	4946.2	4957.7	5008.1
17.5°	4611.9	4595.9	4660.0	4735.6	4850.1	5003.5	5154.6	5250.8	5264.5	5296.6
20°	4882.1	4861.5	4911.9	4980.6	5101.9	5285.1	5466.0	5603.4	5601.2	5601.2
22.5°	5195.8	5163.8	5207.3	5262.2	5376.7	5598.9	5839.3	6001.9	6001.9	5937.8
25°	5532.5	5500.4	5548.5	5598.9	5699.6	5951.5	6233.2	6434.7	6443.8	6333.9
27.5°	5953.8	5912.6	5949.2	6008.8	6068.3	6324.8	6659.1	6892.7	6897.2	6727.8
30°	6764.4	6647.6	6533.1	6469.0	6496.5	6750.7	7107.9	7366.7	7389.6	7156.0
32.5°	8248.3	8225.4	7822.4	7295.7	7020.9	7208.7	7609.4	7920.8	7934.6	7634.6
35°	10554.3	10526.8	9878.7	8875.7	7980.4	7822.4	8218.5	8587.2	8578.1	8239.1
37.5°	13306.7	13281.6	12427.4	11085.5	9636.0	8749.8	9004.0	9391.0	9448.2	9004.0
40°	15658.5	15564.6	15024.2	13730.4	11834.3	10288.6	10121.5	10377.9	10437.5	9910.8
42.5°	17440.1	17359.9	17085.1	16276.8	14495.2	12564.8	11438.2	11536.6	11603.0	10971.0
45°	18362.9	18344.6	18454.5	18378.9	17206.5	15358.5	13320.5	12910.6	12935.8	12145.8
47.5°	18493.4	18484.3	18985.7	19695.6	19537.6	18509.4	15736.3	14623.4	14534.1	13471.6
50°	17724.0	17705.7	18667.4	19997.9	21094.8	21156.6	18479.7	16553.9	16356.9	14843.3
52.5°	15266.9	15262.3	16842.4	19056.7	21642.1	23474.0	21190.9	18674.3	18344.6	16295.1
55°	11747.3	11832.0	13643.4	16260.7	20643.7	24589.2	23625.1	21028.4	20522.3	17756.1
57.5°	8321.6	8445.2	10236.0	12567.1	17547.7	23929.7	25271.6	23387.0	22842.0	19212.5
60°	4469.9	4579.8	6372.9	9155.1	13054.8	21470.3	26139.5	25434.2	24918.9	20595.6
62.5°	2663.2	2699.8	3441.8	5910.3	8829.9	16402.7	25770.8	26993.6	26570.0	21756.6
65°	1912.1	1919.0	2292.2	3608.9	5360.7	9965.7	23185.5	27740.1	27609.6	22631.3
67.5°	1609.8	1605.2	1761.0	2397.5	3652.4	4992.0	17769.8	26684.5	27238.6	23185.5
70°	1380.8	1387.7	1570.9	1756.4	2745.6	2825.8	8834.5	23233.6	24415.2	23332.0
72.5°	1028.2	1051.1	1220.5	1600.7	2072.4	1944.1	3050.2	17227.1	19363.6	21983.3
75°	725.9	737.4	858.7	1346.5	1545.7	1415.2	1557.1	8905.5	11644.3	16853.8
77.5°	558.7	579.4	650.3	941.2	1522.8	993.8	952.6	3082.2	4735.6	10181.0
80°	302.3	338.9	469.4	680.1	1069.4	703.0	471.7	1227.4	1605.2	4760.7
82.5°	155.7	174.0	327.5	490.0	609.1	613.7	233.6	510.7	661.8	1470.1
85°	61.8	75.6	219.8	270.2	313.7	302.3	105.3	206.1	238.2	407.6
87.5°	13.7	22.9	80.1	61.8	59.5	64.1	25.2	48.1	45.8	48.1
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°
4108.1	0°	4108.1	4108.1	4108.1	4108.1	4108.1	4108.1	4108.1	4108.1	4108.1	4108.1
4135.6	2.5°	4133.3	4124.2	4099.0	4071.5	4039.4	4021.1	4009.7	4007.4	3991.3	3979.9
4227.2	5°	4202.0	4192.8	4144.8	4087.5	4025.7	3977.6	3931.8	3890.6	3831.0	3819.6
4360.0	7.5°	4339.4	4314.2	4236.4	4158.5	4041.7	3902.0	3732.6	3537.9	3363.9	3311.2
4536.3	10°	4508.9	4474.5	4376.0	4238.6	3979.9	3599.8	3189.9	2809.7	2507.5	2422.7
4744.7	12.5°	4701.2	4671.4	4540.9	4286.7	3721.1	3031.9	2404.4	1932.7	1639.6	1566.3
4966.8	15°	4930.2	4886.7	4705.8	4213.5	3258.6	2303.7	1651.0	1371.7	1266.3	1252.6
5221.0	17.5°	5172.9	5101.9	4852.3	3950.1	2635.7	1637.3	1275.5	1195.3	1149.5	1135.8
5477.5	20°	5395.1	5303.5	4939.4	3551.7	1969.3	1275.5	1142.7	1090.0	1048.8	1032.8
5734.0	22.5°	5617.2	5486.7	4939.4	3009.0	1477.0	1131.2	1048.8	1000.7	952.6	932.0
6008.8	25°	5848.5	5674.4	4852.3	2404.4	1188.5	1037.3	959.5	906.8	865.6	840.4
6269.8	27.5°	6072.9	5832.4	4653.1	1831.9	1057.9	954.9	877.0	826.7	787.7	769.4
6553.8	30°	6285.8	5988.1	4373.8	1390.0	973.2	874.8	801.5	758.0	719.0	700.7
6922.4	32.5°	6574.4	6185.1	4076.1	1140.4	899.9	799.2	732.8	691.6	657.2	643.5
7401.0	35°	6975.1	6475.9	3819.6	1119.8	838.1	737.4	670.9	632.0	597.7	586.2
8019.3	37.5°	7543.0	6945.3	3684.5	1257.2	787.7	682.4	620.6	579.4	547.3	538.1
8804.8	40°	8243.7	7581.9	3757.8	1394.6	753.4	634.3	574.8	533.6	506.1	494.6
9707.0	42.5°	9075.0	8367.4	4163.1	1499.9	730.5	593.1	531.3	485.5	467.1	462.6
10730.6	45°	10029.9	9230.7	4783.6	1612.1	693.8	554.2	487.8	453.4	439.7	437.4
11843.5	47.5°	11115.3	10178.7	5502.7	1751.8	657.2	517.5	453.4	430.5	419.1	414.5
13004.5	50°	12191.5	11133.6	6242.3	1829.6	627.4	483.2	425.9	407.6	398.4	396.2
14231.9	52.5°	13318.2	12116.0	6840.0	1756.4	602.2	455.7	403.0	389.3	380.1	377.8
15363.1	55°	14392.2	12910.6	6943.0	1490.7	551.9	428.2	377.8	371.0	359.5	359.5
16510.3	57.5°	15317.3	13309.0	6214.9	1094.6	501.5	387.0	352.6	345.8	336.6	334.3
17545.4	60°	16166.9	13194.5	4797.4	737.4	446.5	345.8	320.6	316.0	306.8	295.4
18445.3	62.5°	16645.4	12690.8	3281.5	480.9	391.6	302.3	284.0	281.7	261.1	238.2
19111.7	65°	16826.4	11655.7	2047.2	350.4	327.5	258.8	245.0	240.4	210.7	185.5
19489.5	67.5°	16668.3	9952.0	1032.8	277.1	258.8	215.3	201.5	201.5	180.9	158.0
19466.6	70°	16036.3	7460.6	435.1	222.1	199.2	164.9	164.9	174.0	153.4	128.2
18456.8	72.5°	14664.7	5019.5	231.3	169.5	148.8	116.8	135.1	142.0	121.4	96.2
15106.6	75°	11658.0	3061.6	160.3	125.9	93.9	82.4	103.0	107.6	82.4	64.1
10357.3	77.5°	7973.5	1758.7	107.6	80.1	59.5	48.1	71.0	66.4	43.5	29.8
3993.6	80°	3501.3	732.8	61.8	36.6	22.9	18.3	25.2	18.3	13.7	9.2
547.3	82.5°	409.9	171.7	22.9	13.7	9.2	4.6	2.3	0.0	0.0	0.0
167.2	85°	84.7	20.6	11.4	4.6	2.3	0.0	0.0	0.0	0.0	0.0
29.8	87.5°	16.0	4.6	2.3	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>
4108.1
3991.3
3815.0
3286.0
2390.7
1545.7
1238.8
1128.9
1023.6
920.5
831.2
769.4
703.0
643.5
586.2
535.8
492.3
462.6
435.1
414.5
396.2
377.8
357.2
332.0
293.1
233.6
183.2
155.7
125.9
96.2
61.8
32.1
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