

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: P943244

Luminaire Tested: **GALN-SB7C-850-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943244  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7C-850-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

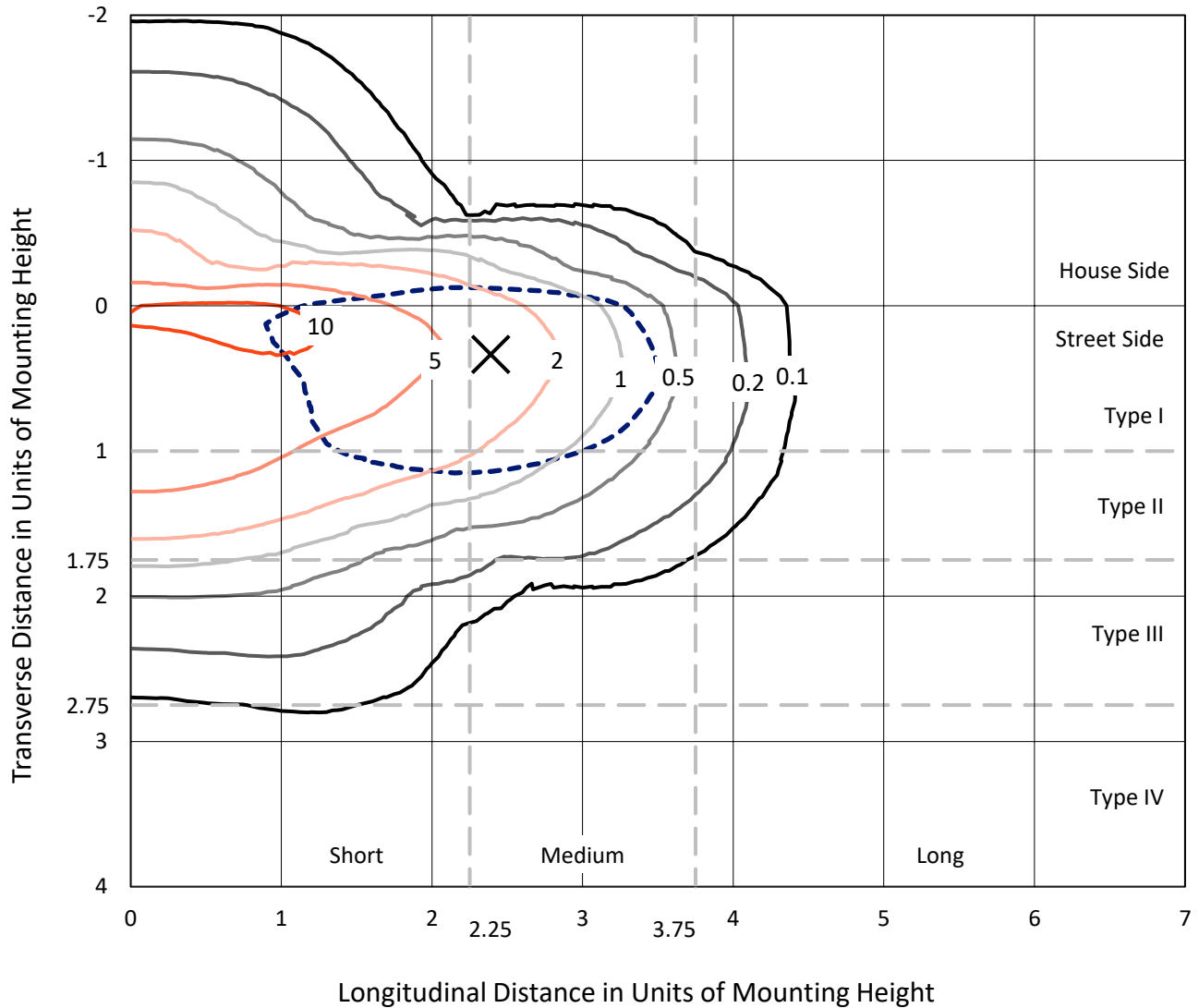
Lumens per Lamp: N/A  
Luminaire Lumens: 37201 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

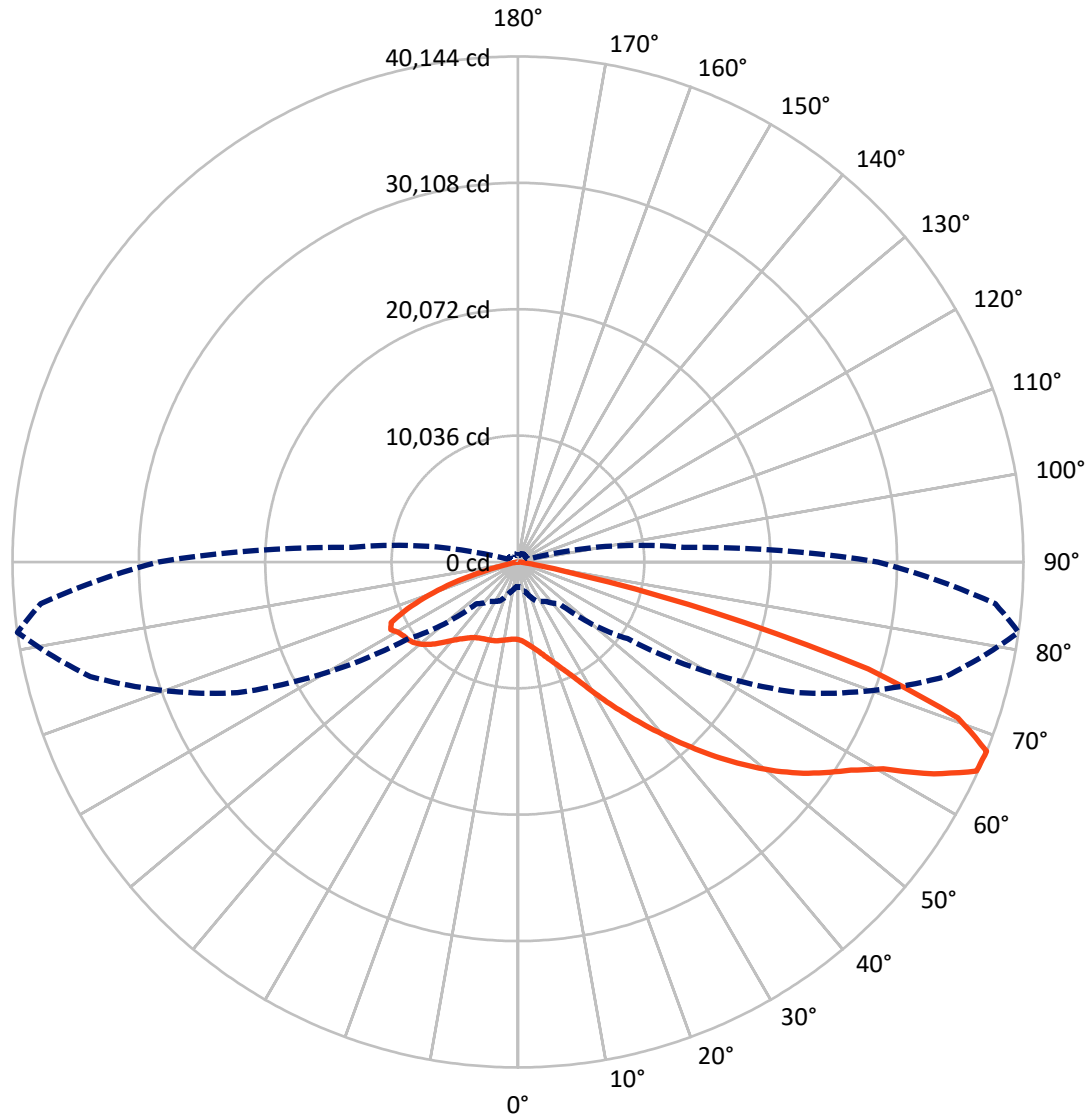
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6738.6	0.0	6738.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	30462.4	0.0	30462.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	37201.0	0.0	37201.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.1	1.5
10°-20°	1426.8	3.8
20°-30°	2285.3	6.1
30°-40°	4041.1	10.9
40°-50°	7080.4	19.0
50°-60°	9443.3	25.4
60°-70°	8791.3	23.6
70°-80°	3374.1	9.1
80°-90°	209.6	0.6
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°	37201.0	100.0
0°-180°	37201.0	100.0

**Coefficient of Utilization**



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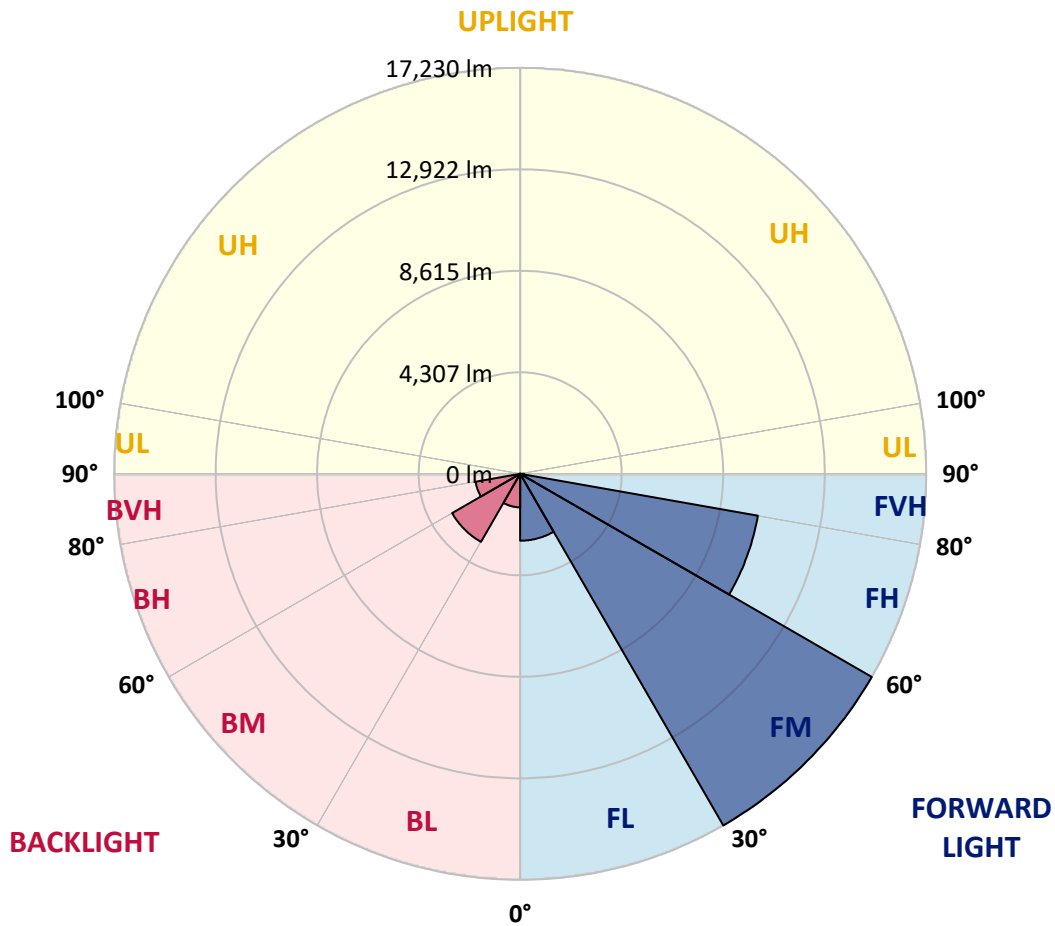
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2838.0	7.6			
FM (30°-60°)	17230.0	46.3			
FH (60°-80°)	10242.0	27.5			G4/12000
FVH (80°-90°)	152.4	0.4			G2/225
BL (0°-30°)	1423.2	3.8	B3/2500		
BM (30°-60°)	3334.9	9.0	B3/5000		
BH (60°-80°)	1923.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	57.2	0.2			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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6162.9	6162.9	6162.9	6162.9	6162.9	6162.9	6162.9	6162.9	6162.9	6162.9
2.5°	6513.8	6551.3	6529.9	6519.2	6500.4	6473.6	6452.2	6385.3	6315.6	6270.1
5°	6645.1	6682.6	6679.9	6690.6	6704.0	6712.0	6706.7	6631.7	6532.6	6454.9
7.5°	6532.6	6575.4	6610.2	6663.8	6757.5	6856.6	6904.9	6888.8	6787.0	6679.9
10°	6213.8	6259.4	6342.4	6468.3	6666.5	6880.8	7060.2	7143.2	7079.0	6961.1
12.5°	5629.9	5675.5	5838.9	6112.1	6444.2	6816.5	7159.3	7381.6	7397.7	7279.8
15°	4973.7	5019.3	5193.4	5536.2	6042.4	6639.7	7212.9	7633.4	7775.3	7673.6
17.5°	4566.6	4606.8	4738.0	5013.9	5541.6	6286.2	7194.1	7901.2	8225.3	8144.9
20°	4443.4	4478.2	4539.8	4732.7	5171.9	5919.2	7070.9	8153.0	8710.1	8664.6
22.5°	4574.7	4606.8	4625.6	4711.3	4987.1	5678.2	6915.6	8410.1	9272.5	9277.9
25°	4877.3	4909.5	4888.0	4941.6	5062.1	5603.2	6856.6	8712.8	9979.6	10038.6
27.5°	5375.5	5378.2	5327.3	5324.6	5343.4	5715.7	6918.2	9036.8	10871.5	10981.3
30°	6374.5	6334.4	6138.8	5927.2	5830.8	6053.1	7089.7	9419.9	11924.1	12119.7
32.5°	7914.6	7855.7	7496.8	6990.6	6481.7	6596.8	7397.7	9856.4	13070.5	13424.0
35°	9585.9	9569.8	9194.9	8442.2	7553.0	7370.9	7898.5	10429.6	14321.3	14883.7
37.5°	11139.4	11131.3	10917.1	10030.5	8948.5	8450.3	8702.0	11179.5	15660.5	16474.7
40°	12558.9	12583.0	12368.7	11575.9	10485.8	9835.0	9794.8	12106.3	17149.7	18207.6
42.5°	13785.6	13812.4	13595.4	13008.9	12004.5	11367.0	11136.7	13241.9	18604.0	20069.1
45°	14618.6	14784.6	14752.5	14283.8	13563.3	12901.7	12749.1	14666.8	20261.9	22043.0
47.5°	14854.3	15006.9	15248.0	15312.3	14873.0	14222.2	14404.3	16383.6	21938.6	24019.7
50°	14273.1	14415.0	14915.9	15582.8	15888.1	15687.3	16014.0	18223.7	23655.4	25991.0
52.5°	13126.7	13271.4	13903.5	14958.7	16204.2	16836.3	17629.1	20036.9	25318.7	27857.8
55°	11468.8	11621.5	12433.0	13627.6	15601.5	17310.4	18976.3	21847.5	26842.7	29537.1
57.5°	9213.6	9326.1	10169.8	11841.1	14085.6	16839.0	19970.0	23824.2	28278.3	31187.0
60°	6004.9	6104.0	7084.3	8948.5	11573.3	15264.1	20168.2	26028.5	30185.3	33332.4
62.5°	3993.5	4060.4	4641.6	6010.3	8150.3	12240.2	19008.4	27788.2	32981.5	37066.1
65°	2740.0	2806.9	3388.1	4341.7	5265.7	8096.7	15673.9	27555.1	35515.3	40031.0
67.5°	1955.2	2011.5	2504.3	3404.2	3811.3	4703.2	10625.1	24576.8	35151.0	40143.5
70°	1400.8	1432.9	1840.0	2651.6	3029.2	2825.7	5908.5	18796.9	30777.2	37068.7
72.5°	980.3	991.0	1277.6	2019.5	2440.0	2062.4	2812.3	12532.1	23277.8	29095.2
75°	664.2	677.6	859.8	1481.1	1957.9	1574.9	1489.2	6720.0	13665.1	16105.1
77.5°	407.1	412.5	554.4	1012.4	1465.1	1199.9	958.9	2847.1	5287.1	5190.7
80°	230.3	230.3	353.5	629.4	999.0	774.1	672.3	1210.6	1674.0	1470.4
82.5°	128.6	131.2	257.1	391.0	661.6	458.0	369.6	559.8	723.2	640.1
85°	53.6	58.9	158.0	184.8	316.0	227.7	150.0	235.7	267.8	238.4
87.5°	5.4	8.0	48.2	34.8	37.5	45.5	21.4	45.5	37.5	37.5
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°
6162.9	0°	6162.9	6162.9	6162.9	6162.9	6162.9	6162.9	6162.9	6162.9	6162.9	6162.9
6254.0	2.5°	6203.1	6162.9	6061.2	5943.3	5788.0	5713.0	5611.2	5541.6	5482.6	5488.0
6409.4	5°	6323.6	6221.9	5994.2	5710.3	5356.8	5105.0	4837.1	4652.3	4502.4	4470.2
6623.6	7.5°	6489.7	6329.0	5929.9	5418.4	4821.1	4368.4	3964.0	3704.2	3519.4	3460.5
6883.4	10°	6704.0	6471.0	5846.9	5051.4	4191.7	3615.8	3181.9	2978.4	2852.5	2809.6
7188.8	12.5°	6953.1	6634.3	5737.1	4604.1	3543.5	2989.1	2713.2	2611.4	2571.2	2557.9
7563.7	15°	7266.4	6837.9	5571.0	4073.8	2994.4	2606.1	2488.2	2474.8	2480.2	2474.8
8013.7	17.5°	7638.7	7060.2	5300.5	3527.4	2624.8	2410.5	2367.7	2378.4	2391.8	2389.1
8517.2	20°	8045.8	7279.8	4955.0	3042.6	2373.0	2271.3	2247.2	2257.9	2268.6	2263.2
9098.4	22.5°	8509.2	7515.5	4572.0	2665.0	2204.3	2142.7	2115.9	2118.6	2118.6	2107.9
9835.0	25°	9063.6	7775.3	4170.2	2397.1	2075.7	2027.5	1995.4	1984.7	1968.6	1936.5
10729.6	27.5°	9725.2	8051.2	3784.5	2209.7	1974.0	1928.4	1890.9	1864.2	1824.0	1770.4
11803.6	30°	10469.8	8386.0	3457.8	2091.8	1893.6	1848.1	1805.2	1765.1	1706.1	1639.2
13038.3	32.5°	11345.6	8744.9	3219.4	2014.1	1821.3	1773.1	1722.2	1674.0	1609.7	1542.7
14425.7	35°	12390.2	9178.8	3080.1	1960.6	1765.1	1700.8	1644.5	1591.0	1542.7	1483.8
15933.7	37.5°	13523.1	9639.5	3037.3	1933.8	1727.6	1628.5	1564.2	1526.7	1521.3	1486.5
17564.8	40°	14763.2	10185.9	3069.4	1917.7	1687.4	1558.8	1489.2	1481.1	1494.5	1432.9
19308.4	42.5°	16075.6	10834.0	3123.0	1899.0	1631.1	1489.2	1422.2	1422.2	1411.5	1325.8
21151.1	45°	17495.2	11581.3	3176.6	1853.4	1564.2	1419.5	1368.7	1349.9	1304.4	1221.3
23004.6	47.5°	18925.4	12342.0	3216.7	1770.4	1483.8	1360.6	1315.1	1272.2	1205.3	1130.3
24823.2	50°	20283.4	13025.0	3173.9	1647.2	1392.8	1304.4	1256.2	1197.2	1124.9	1074.0
26545.4	52.5°	21496.7	13616.9	2991.7	1502.6	1296.3	1245.4	1202.6	1141.0	1082.1	1028.5
28098.9	55°	22551.9	14096.3	2670.3	1366.0	1210.6	1194.6	1151.7	1074.0	993.7	948.1
29638.9	57.5°	23564.4	14460.6	2268.6	1253.5	1133.0	1138.3	1074.0	1004.4	929.4	881.2
31714.7	60°	24911.6	14948.0	1861.5	1149.0	1049.9	1066.0	996.4	945.5	851.7	790.1
35274.2	62.5°	27065.0	15706.0	1478.5	1020.5	953.5	958.9	929.4	867.8	755.3	683.0
37912.4	65°	28773.8	15427.5	1165.1	881.2	843.7	851.7	851.7	784.8	664.2	581.2
38054.4	67.5°	28581.0	13209.8	929.4	744.6	739.2	744.6	763.3	707.1	589.2	522.3
35156.4	70°	26328.5	10507.3	744.6	618.7	642.8	629.4	683.0	645.5	530.3	463.4
27255.2	72.5°	21483.3	7569.1	567.8	511.6	492.8	514.2	616.0	581.2	441.9	366.9
14436.5	75°	12553.6	4039.0	423.2	404.4	356.2	428.5	546.4	495.5	337.5	270.5
4424.7	77.5°	4087.2	1408.8	310.7	297.3	265.2	345.5	466.0	417.8	275.9	214.3
1296.3	80°	1095.5	425.9	211.6	195.5	171.4	257.1	369.6	332.1	198.2	139.3
557.1	82.5°	439.3	179.5	123.2	109.8	93.7	176.8	291.9	267.8	147.3	88.4
174.1	85°	142.0	58.9	45.5	34.8	42.9	109.8	174.1	182.1	104.5	45.5
26.8	87.5°	18.7	8.0	8.0	10.7	8.0	18.7	53.6	50.9	29.5	5.4
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>
6162.9
5434.4
4397.9
3401.5
2777.5
2549.8
2472.1
2383.8
2260.6
2102.5
1931.1
1765.1
1633.8
1545.4
1478.5
1483.8
1435.6
1325.8
1218.7
1127.6
1066.0
1023.1
942.8
875.8
782.1
677.6
573.2
<b>511.6</b>
455.3
358.9
262.5
206.2
136.6
88.4
34.8
0.0
0.0

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