

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: P944434

Luminaire Tested: **GALN-SB9B-850-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944434  
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-SB9B-850-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

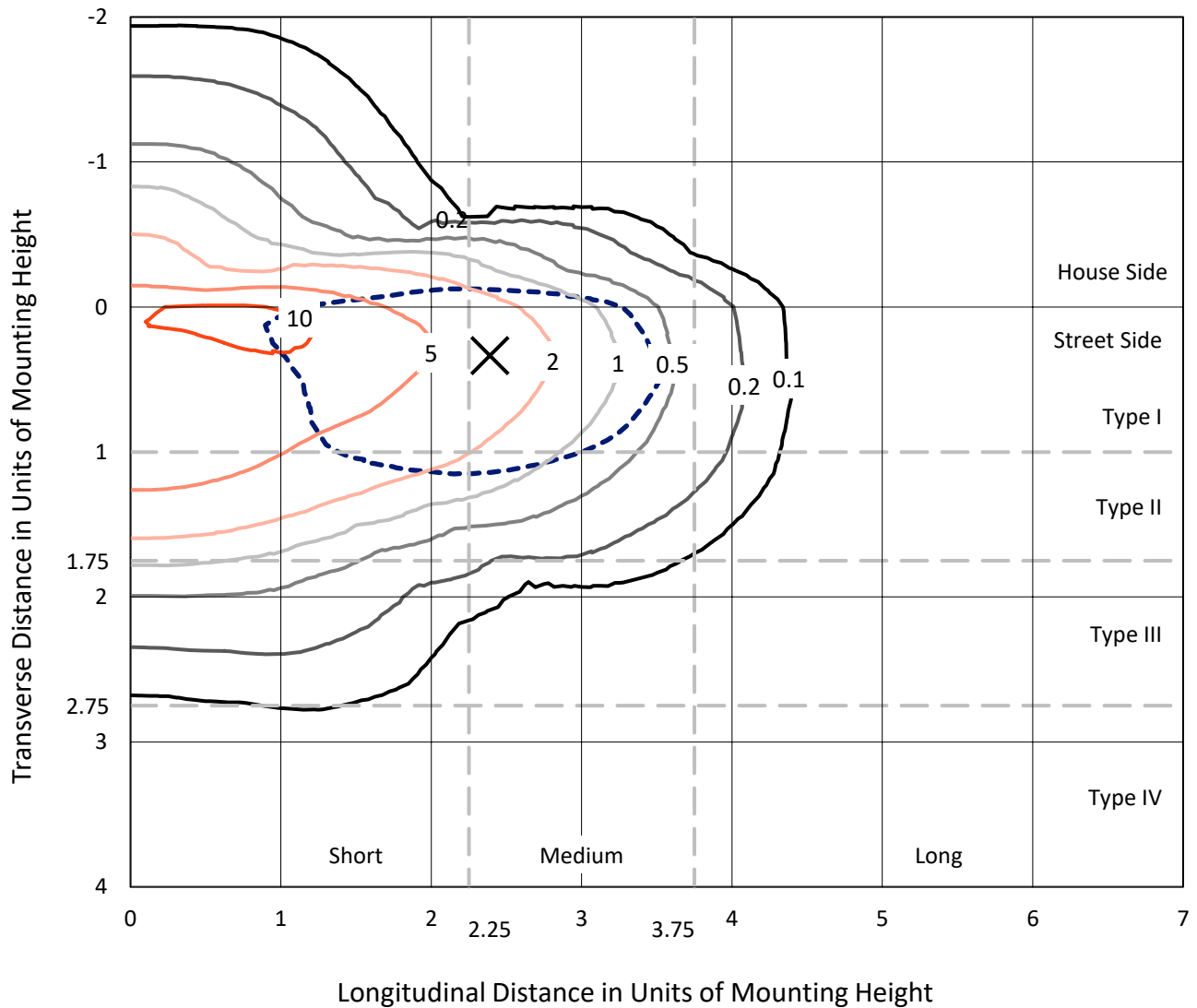
Lumens per Lamp: N/A  
Luminaire Lumens: 35825 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

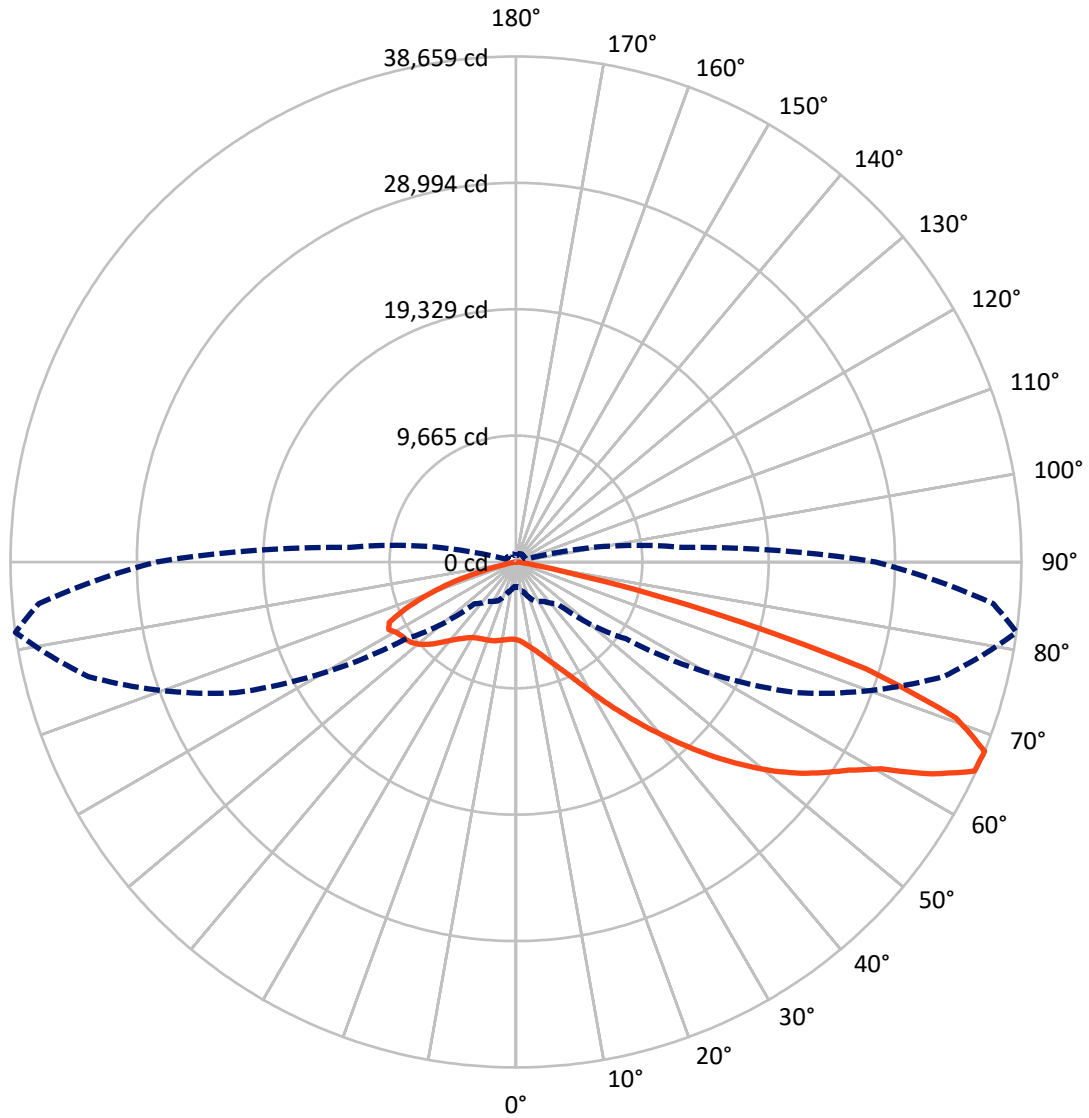
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	6489.4	0.0	6489.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	29335.6	0.0	29335.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	35825.0	0.0	35825.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.8	1.5
10°-20°	1374.0	3.8
20°-30°	2200.8	6.1
30°-40°	3891.7	10.9
40°-50°	6818.6	19.0
50°-60°	9094.0	25.4
60°-70°	8466.1	23.6
70°-80°	3249.3	9.1
80°-90°	201.8	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°	35825.0	100.0
0°-180°	35825.0	100.0

**Coefficient of Utilization**



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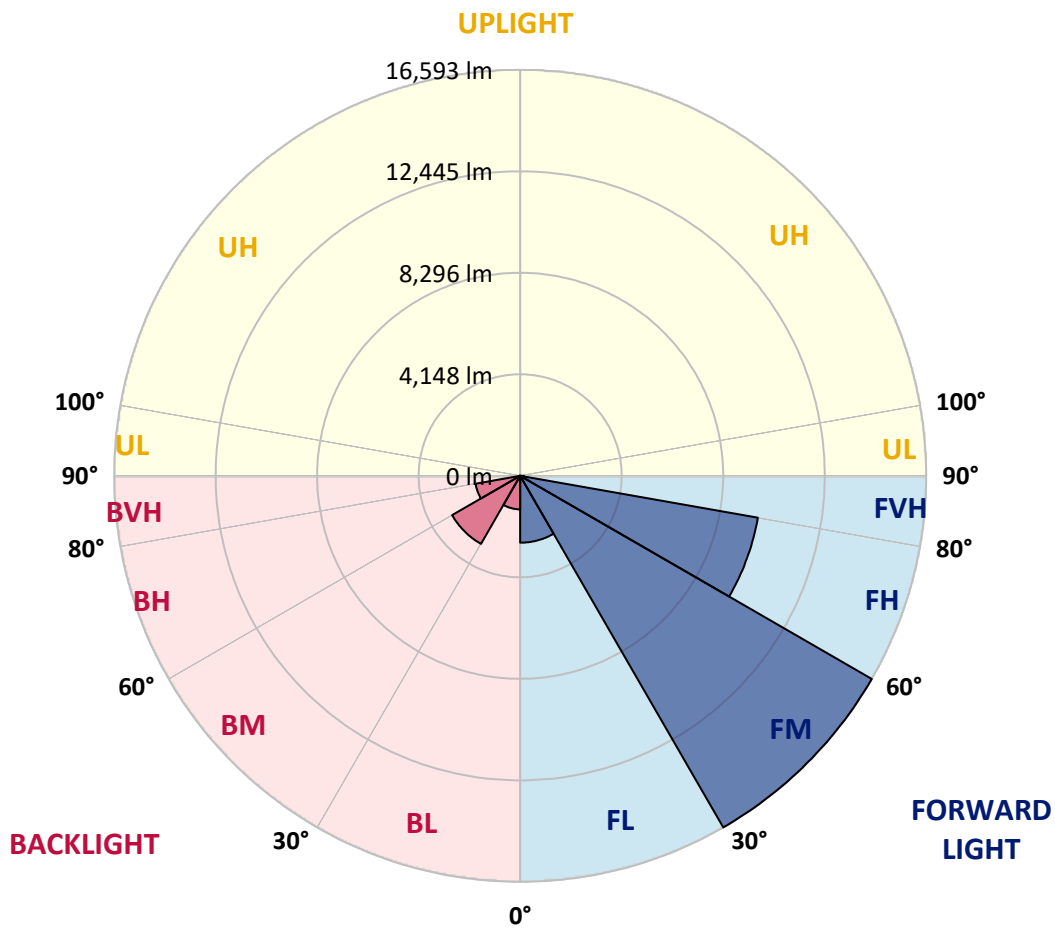
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2733.0	7.6			
FM (30°-60°)	16592.7	46.3			
FH (60°-80°)	9863.2	27.5			G4/12000
FVH (80°-90°)	146.7	0.4			G2/225
BL (0°-30°)	1370.5	3.8	B3/2500		
BM (30°-60°)	3211.6	9.0	B3/5000		
BH (60°-80°)	1852.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	55.1	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°	5935.0	5935.0	5935.0	5935.0	5935.0	5935.0	5935.0	5935.0	5935.0	5935.0
2.5°	6272.9	6309.0	6288.4	6278.0	6260.0	6234.2	6213.6	6149.1	6082.0	6038.2
5°	6399.3	6435.4	6432.8	6443.1	6456.0	6463.7	6458.6	6386.4	6290.9	6216.1
7.5°	6290.9	6332.2	6365.7	6417.3	6507.6	6603.0	6649.5	6634.0	6536.0	6432.8
10°	5984.0	6027.8	6107.8	6229.0	6419.9	6626.2	6799.1	6879.0	6817.1	6703.6
12.5°	5421.7	5465.6	5622.9	5886.0	6205.8	6564.3	6894.5	7108.6	7124.1	7010.6
15°	4789.8	4833.6	5001.3	5331.4	5818.9	6394.1	6946.1	7351.0	7487.7	7389.7
17.5°	4397.7	4436.4	4562.8	4828.5	5336.6	6053.6	6928.0	7609.0	7921.1	7843.7
20°	4279.1	4312.6	4371.9	4557.6	4980.6	5700.3	6809.4	7851.4	8387.9	8344.1
22.5°	4405.5	4436.4	4454.5	4537.0	4802.7	5468.1	6659.8	8099.0	8929.6	8934.7
25°	4696.9	4727.9	4707.2	4758.8	4874.9	5395.9	6603.0	8390.5	9610.5	9667.3
27.5°	5176.7	5179.3	5130.2	5127.7	5145.7	5504.2	6662.4	8702.6	10469.4	10575.2
30°	6138.8	6100.1	5911.8	5708.0	5615.2	5829.2	6827.4	9071.4	11483.1	11671.4
32.5°	7621.9	7565.1	7219.5	6732.0	6241.9	6352.8	7124.1	9491.9	12587.0	12927.5
35°	9231.3	9215.9	8854.8	8130.0	7273.7	7098.3	7606.4	10043.8	13791.6	14333.2
37.5°	10727.3	10719.6	10513.3	9659.5	8617.5	8137.7	8380.2	10766.0	15081.2	15865.3
40°	12094.4	12117.6	11911.2	11147.8	10098.0	9471.2	9432.5	11658.5	16515.3	17534.1
42.5°	13275.7	13301.5	13092.6	12527.7	11560.5	10946.6	10724.8	12752.1	17915.9	19326.8
45°	14077.9	14237.8	14206.8	13755.5	13061.6	12424.5	12277.5	14124.3	19512.5	21227.7
47.5°	14304.8	14451.9	14684.0	14745.9	14322.9	13696.1	13871.5	15777.6	21127.1	23131.2
50°	13745.1	13881.8	14364.2	15006.4	15300.5	15107.0	15421.7	17549.6	22780.5	25029.6
52.5°	12641.2	12780.5	13389.2	14405.4	15604.8	16213.5	16977.0	19295.8	24382.2	26827.4
55°	11044.6	11191.6	11973.2	13123.5	15024.5	16670.1	18274.4	21039.4	25849.8	28444.6
57.5°	8872.8	8981.2	9793.6	11403.1	13564.6	16216.1	19231.3	22943.0	27232.3	30033.5
60°	5782.8	5878.2	6822.3	8617.5	11145.2	14699.5	19422.2	25065.7	29068.8	32099.5
62.5°	3845.7	3910.2	4469.9	5788.0	7848.8	11787.4	18305.4	26760.3	31761.6	35695.1
65°	2638.6	2703.1	3262.8	4181.1	5070.9	7797.3	15094.1	26535.9	34201.6	38550.4
67.5°	1882.9	1937.1	2411.7	3278.3	3670.4	4529.3	10232.1	23667.7	33850.9	38658.7
70°	1349.0	1379.9	1772.0	2553.5	2917.2	2721.2	5690.0	18101.6	29638.8	35697.6
72.5°	944.0	954.3	1230.3	1944.8	2349.8	1986.1	2708.3	12068.6	22416.8	28019.0
75°	639.7	652.6	828.0	1426.4	1885.5	1516.6	1434.1	6471.5	13159.6	15509.4
77.5°	392.1	397.2	533.9	975.0	1410.9	1155.5	923.4	2741.8	5091.6	4998.7
80°	221.8	221.8	340.5	606.1	962.1	745.4	647.4	1165.8	1612.1	1416.0
82.5°	123.8	126.4	247.6	376.6	637.1	441.1	355.9	539.1	696.4	616.5
85°	51.6	56.7	152.2	178.0	304.4	219.2	144.4	227.0	257.9	229.6
87.5°	5.2	7.7	46.4	33.5	36.1	43.8	20.6	43.8	36.1	36.1
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°
5935.0	0°	5935.0	5935.0	5935.0	5935.0	5935.0	5935.0	5935.0	5935.0	5935.0	5935.0
6022.7	2.5°	5973.7	5935.0	5837.0	5723.5	5573.9	5501.7	5403.7	5336.6	5279.8	5285.0
6172.3	5°	6089.7	5991.7	5772.5	5499.1	5158.6	4916.2	4658.2	4480.3	4335.8	4304.9
6378.6	7.5°	6249.7	6094.9	5710.6	5217.9	4642.8	4206.9	3817.4	3567.2	3389.2	3332.5
6628.8	10°	6456.0	6231.6	5630.6	4864.6	4036.6	3482.1	3064.2	2868.2	2747.0	2705.7
6922.9	12.5°	6695.9	6388.9	5524.9	4433.8	3412.4	2878.5	2612.8	2514.8	2476.1	2463.2
7284.0	15°	6997.7	6585.0	5365.0	3923.1	2883.7	2509.7	2396.2	2383.3	2388.4	2383.3
7717.3	17.5°	7356.2	6799.1	5104.5	3397.0	2527.7	2321.4	2280.1	2290.4	2303.3	2300.7
8202.2	20°	7748.2	7010.6	4771.7	2930.1	2285.3	2187.3	2164.0	2174.4	2184.7	2179.5
8761.9	22.5°	8194.5	7237.5	4402.9	2566.4	2122.8	2063.4	2037.7	2040.2	2040.2	2029.9
9471.2	25°	8728.4	7487.7	4016.0	2308.5	1999.0	1952.5	1921.6	1911.3	1895.8	1864.8
10332.7	27.5°	9365.5	7753.4	3644.6	2127.9	1901.0	1857.1	1821.0	1795.2	1756.5	1704.9
11367.0	30°	10082.5	8075.8	3329.9	2014.4	1823.6	1779.7	1738.5	1699.8	1643.0	1578.5
12556.1	32.5°	10926.0	8421.4	3100.3	1939.6	1753.9	1707.5	1658.5	1612.1	1550.2	1485.7
13892.2	35°	11931.9	8839.3	2966.2	1888.1	1699.8	1637.9	1583.7	1532.1	1485.7	1428.9
15344.3	37.5°	13022.9	9282.9	2924.9	1862.3	1663.7	1568.2	1506.3	1470.2	1465.0	1431.5
16915.1	40°	14217.2	9809.1	2955.9	1846.8	1625.0	1501.2	1434.1	1426.4	1439.3	1379.9
18594.2	42.5°	15481.0	10433.3	3007.5	1828.7	1570.8	1434.1	1369.6	1369.6	1359.3	1276.8
20368.8	45°	16848.0	11152.9	3059.1	1784.9	1506.3	1367.0	1318.0	1300.0	1256.1	1176.2
22153.7	47.5°	18225.4	11885.5	3097.8	1704.9	1428.9	1310.3	1266.4	1225.2	1160.7	1088.5
23905.0	50°	19533.1	12543.2	3056.5	1586.3	1341.2	1256.1	1209.7	1153.0	1083.3	1034.3
25563.5	52.5°	20701.5	13113.2	2881.1	1447.0	1248.4	1199.4	1158.1	1098.8	1042.0	990.5
27059.5	55°	21717.8	13574.9	2571.6	1315.4	1165.8	1150.4	1109.1	1034.3	956.9	913.1
28542.6	57.5°	22692.8	13925.7	2184.7	1207.1	1091.0	1096.2	1034.3	967.2	895.0	848.6
30541.6	60°	23990.2	14395.1	1792.6	1106.5	1011.1	1026.6	959.5	910.5	820.2	760.9
33969.5	62.5°	26063.9	15125.1	1423.8	982.7	918.2	923.4	895.0	835.7	727.4	657.7
36510.1	65°	27709.5	14856.8	1122.0	848.6	812.5	820.2	820.2	755.7	639.7	559.7
36646.8	67.5°	27523.8	12721.2	895.0	717.0	711.9	717.0	735.1	680.9	567.4	503.0
33856.0	70°	25354.6	10118.6	717.0	595.8	619.0	606.1	657.7	621.6	510.7	446.2
26247.0	72.5°	20688.6	7289.1	546.8	492.6	474.6	495.2	593.2	559.7	425.6	353.4
13902.5	75°	12089.2	3889.6	407.5	389.5	343.0	412.7	526.2	477.2	325.0	260.5
4261.0	77.5°	3936.0	1356.7	299.2	286.3	255.4	332.7	448.8	402.4	265.7	206.3
1248.4	80°	1054.9	410.1	203.8	188.3	165.1	247.6	355.9	319.8	190.9	134.1
536.5	82.5°	423.0	172.8	118.6	105.8	90.3	170.2	281.1	257.9	141.9	85.1
167.7	85°	136.7	56.7	43.8	33.5	41.3	105.8	167.7	175.4	100.6	43.8
25.8	87.5°	18.1	7.7	7.7	10.3	7.7	18.1	51.6	49.0	28.4	5.2
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>
5935.0
5233.4
4235.2
3275.7
2674.7
2455.5
2380.7
2295.6
2176.9
2024.8
1859.7
1699.8
1573.4
1488.3
1423.8
1428.9
1382.5
1276.8
1173.6
1085.9
1026.6
985.3
907.9
843.4
753.2
652.6
552.0
492.6
438.5
345.6
252.8
198.6
131.5
85.1
33.5
0.0
0.0

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