

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: P943724

Luminaire Tested: **GALN-SB8B-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943724
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-SB8B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 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: 29877 lumens
Efficiency: N/A
Efficacy: 102.0 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

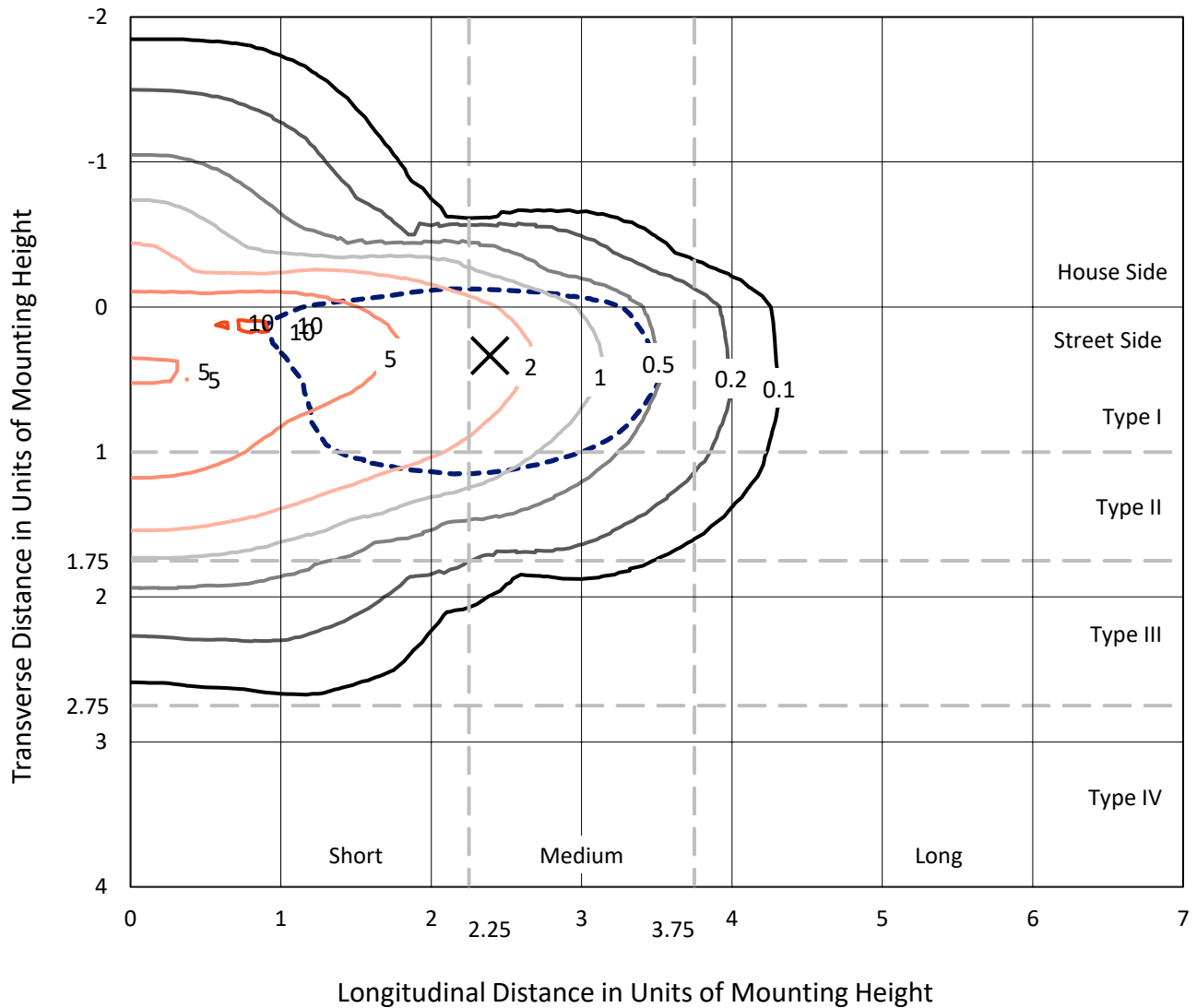
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943724
 CATALOG NUMBER: GALN-SB8B-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

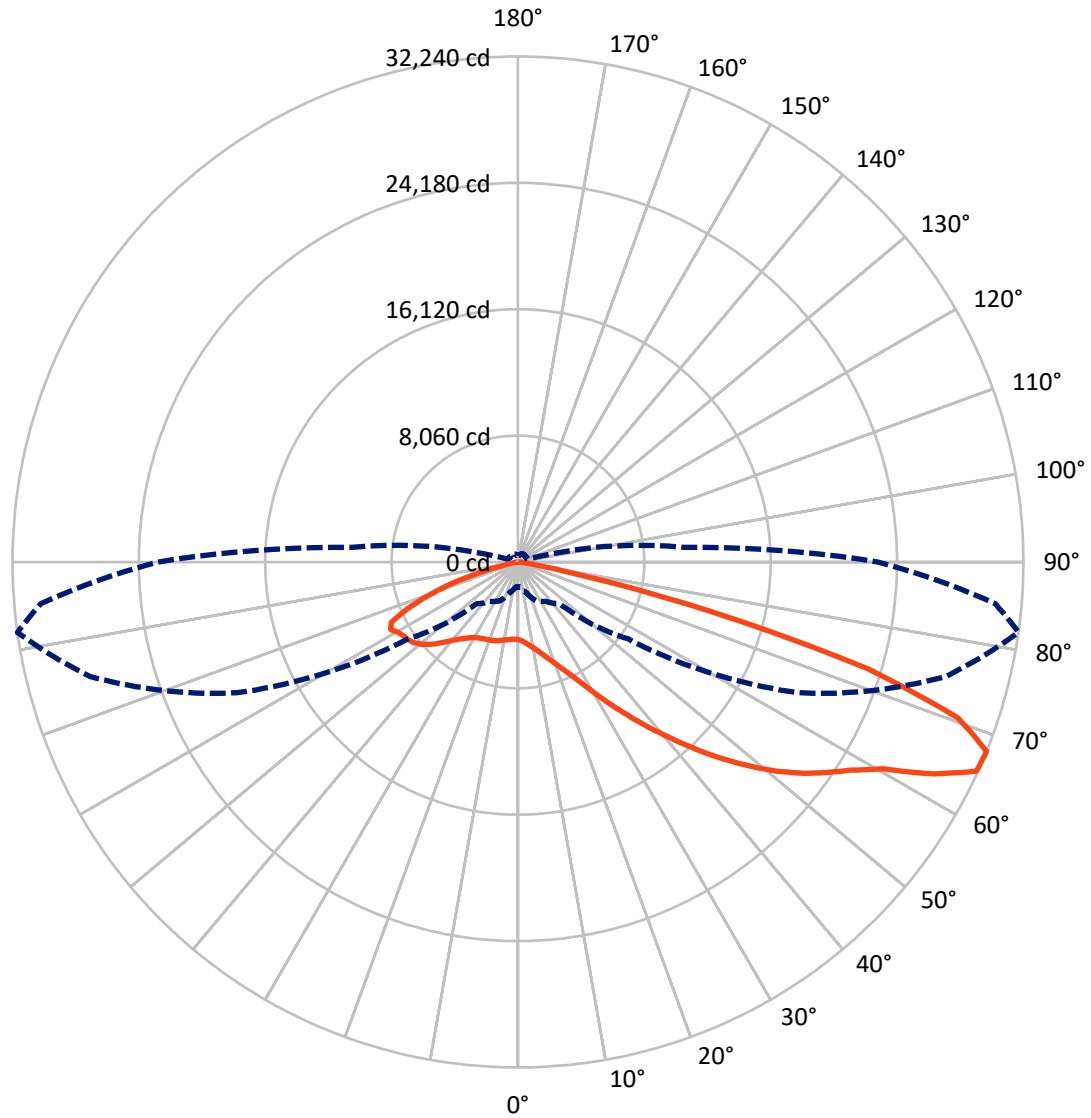
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P943724
CATALOG NUMBER: GALN-SB8B-830-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P943724

CATALOG NUMBER: GALN-SB8B-830-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5412.0	0.0	5412.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24465.0	0.0	24465.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	29877.0	0.0	29877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.0	1.5
10°-20°	1145.9	3.8
20°-30°	1835.4	6.1
30°-40°	3245.5	10.9
40°-50°	5686.5	19.0
50°-60°	7584.2	25.4
60°-70°	7060.5	23.6
70°-80°	2709.8	9.1
80°-90°	168.3	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°	29877.0	100.0
0°-180°	29877.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943724

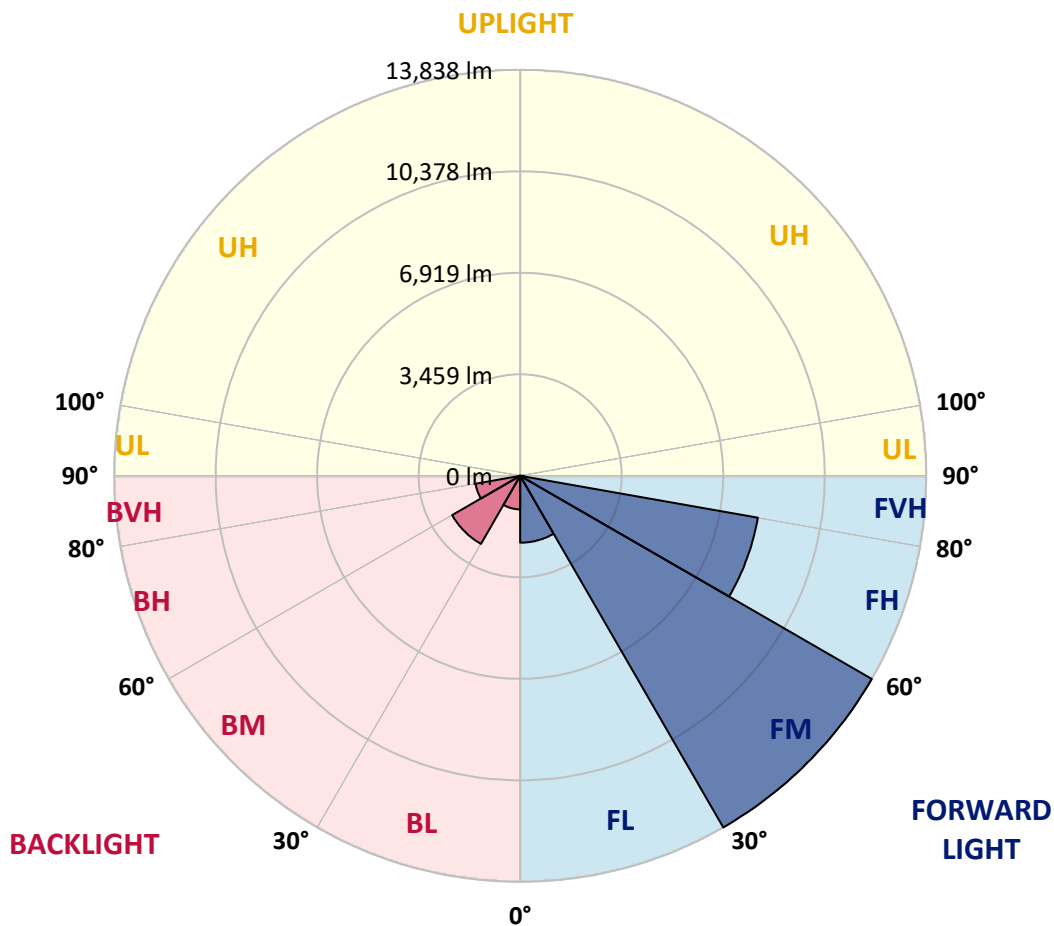
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2279.3	7.6			
FM (30°-60°)	13837.8	46.3			
FH (60°-80°)	8225.6	27.5			G4/12000
FVH (80°-90°)	122.4	0.4			G2/225
BL (0°-30°)	1143.0	3.8	B3/2500		
BM (30°-60°)	2678.3	9.0	B3/5000		
BH (60°-80°)	1544.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	45.9	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



REPORT NUMBER: P943724

CATALOG NUMBER: GALN-SB8B-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4949.6	4949.6	4949.6	4949.6	4949.6	4949.6	4949.6	4949.6	4949.6	4949.6
2.5°	5231.4	5261.5	5244.3	5235.7	5220.6	5199.1	5181.9	5128.1	5072.2	5035.7
5°	5336.8	5366.9	5364.8	5373.4	5384.1	5390.6	5386.3	5326.0	5246.5	5184.1
7.5°	5246.5	5280.9	5308.8	5351.9	5427.1	5506.7	5545.5	5532.5	5450.8	5364.8
10°	4990.5	5027.0	5093.7	5194.8	5354.0	5526.1	5670.2	5736.9	5685.3	5590.6
12.5°	4521.5	4558.1	4689.3	4908.7	5175.5	5474.5	5749.8	5928.3	5941.3	5846.6
15°	3994.5	4031.1	4170.9	4446.3	4852.8	5332.5	5792.8	6130.5	6244.6	6162.8
17.5°	3667.6	3699.8	3805.2	4026.8	4450.6	5048.6	5777.8	6345.7	6605.9	6541.4
20°	3568.6	3596.6	3646.1	3800.9	4153.7	4753.9	5678.8	6547.9	6995.3	6958.7
22.5°	3674.0	3699.8	3714.9	3783.7	4005.3	4560.3	5554.1	6754.4	7447.0	7451.3
25°	3917.1	3942.9	3925.7	3968.7	4065.5	4500.0	5506.7	6997.4	8014.9	8062.2
27.5°	4317.2	4319.3	4278.5	4276.3	4291.4	4590.4	5556.2	7257.7	8731.2	8819.4
30°	5119.5	5087.3	4930.2	4760.3	4682.9	4861.4	5693.9	7565.3	9576.6	9733.6
32.5°	6356.4	6309.1	6020.8	5614.3	5205.6	5298.1	5941.3	7915.9	10497.2	10781.2
35°	7698.7	7685.8	7384.6	6780.2	6066.0	5919.7	6343.5	8376.3	11501.8	11953.5
37.5°	8946.3	8939.8	8767.8	8055.8	7186.7	6786.6	6988.8	8978.6	12577.3	13231.2
40°	10086.4	10105.7	9933.6	9296.9	8421.4	7898.7	7866.5	9722.8	13773.3	14623.0
42.5°	11071.5	11093.1	10918.8	10447.7	9641.1	9129.1	8944.1	10634.9	14941.3	16118.0
45°	11740.5	11873.9	11848.1	11471.6	10893.0	10361.7	10239.1	11779.2	16272.8	17703.3
47.5°	11929.8	12052.4	12246.0	12297.7	11944.9	11422.2	11568.4	13158.1	17619.4	19290.8
50°	11463.0	11577.0	11979.3	12514.9	12760.1	12598.8	12861.2	14635.9	18998.2	20874.0
52.5°	10542.4	10658.5	11166.2	12013.7	13014.0	13521.6	14158.3	16092.1	20334.0	22373.3
55°	9210.9	9333.5	9985.3	10944.6	12530.0	13902.4	15240.3	17546.3	21558.0	23722.0
57.5°	7399.7	7490.0	8167.6	9509.9	11312.5	13523.8	16038.4	19133.8	22711.0	25047.0
60°	4822.7	4902.3	5689.6	7186.7	9294.8	12258.9	16197.5	20904.1	24242.5	26770.0
62.5°	3207.2	3261.0	3727.8	4827.0	6545.7	9830.4	15266.1	22317.3	26488.3	29768.6
65°	2200.5	2254.3	2721.1	3486.9	4229.0	6502.7	12588.1	22130.2	28523.2	32149.9
67.5°	1570.3	1615.5	2011.2	2734.0	3061.0	3777.3	8533.3	19738.2	28230.6	32240.2
70°	1125.0	1150.8	1477.8	2129.6	2432.9	2269.4	4745.3	15096.2	24717.9	29770.8
72.5°	787.3	795.9	1026.1	1621.9	1959.6	1656.3	2258.6	10064.8	18694.9	23367.1
75°	533.5	544.2	690.5	1189.5	1572.4	1264.8	1196.0	5397.0	10974.7	12934.4
77.5°	327.0	331.3	445.3	813.1	1176.6	963.7	770.1	2286.6	4246.2	4168.8
80°	185.0	185.0	283.9	505.5	802.3	621.7	539.9	972.3	1344.4	1180.9
82.5°	103.3	105.4	206.5	314.1	531.3	367.8	296.8	449.6	580.8	514.1
85°	43.0	47.3	126.9	148.4	253.8	182.8	120.5	189.3	215.1	191.4
87.5°	4.3	6.5	38.7	28.0	30.1	36.6	17.2	36.6	30.1	30.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943724
 CATALOG NUMBER: GALN-SB8B-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4949.6	0°	4949.6	4949.6	4949.6	4949.6	4949.6	4949.6	4949.6	4949.6	4949.6	4949.6
5022.7	2.5°	4981.9	4949.6	4867.9	4773.2	4648.5	4588.2	4506.5	4450.6	4403.2	4407.5
5147.5	5°	5078.7	4996.9	4814.1	4586.1	4302.1	4099.9	3884.8	3736.4	3615.9	3590.1
5319.6	7.5°	5212.0	5083.0	4762.5	4351.6	3871.9	3508.4	3183.6	2974.9	2826.5	2779.2
5528.2	10°	5384.1	5197.0	4695.8	4056.9	3366.4	2903.9	2555.5	2392.0	2290.9	2256.5
5773.5	12.5°	5584.2	5328.2	4607.6	3697.7	2845.9	2400.6	2179.0	2097.3	2065.0	2054.3
6074.6	15°	5835.8	5491.7	4474.2	3271.8	2404.9	2093.0	1998.3	1987.6	1991.9	1987.6
6436.0	17.5°	6134.8	5670.2	4257.0	2833.0	2108.0	1936.0	1901.5	1910.1	1920.9	1918.8
6840.4	20°	6461.8	5846.6	3979.5	2443.6	1905.8	1824.1	1804.7	1813.4	1822.0	1817.7
7307.2	22.5°	6833.9	6035.9	3671.9	2140.3	1770.3	1720.9	1699.3	1701.5	1701.5	1692.9
7898.7	25°	7279.2	6244.6	3349.2	1925.2	1667.1	1628.4	1602.5	1593.9	1581.0	1555.2
8617.2	27.5°	7810.5	6466.1	3039.5	1774.6	1585.3	1548.8	1518.7	1497.1	1464.9	1421.9
9479.8	30°	8408.5	6735.0	2777.0	1680.0	1520.8	1484.2	1449.8	1417.6	1370.2	1316.5
10471.4	32.5°	9111.9	7023.2	2585.6	1617.6	1462.7	1424.0	1383.1	1344.4	1292.8	1239.0
11585.7	35°	9950.8	7371.7	2473.7	1574.6	1417.6	1365.9	1320.8	1277.7	1239.0	1191.7
12796.7	37.5°	10860.7	7741.7	2439.3	1553.1	1387.4	1307.8	1256.2	1226.1	1221.8	1193.8
14106.7	40°	11856.7	8180.5	2465.1	1540.2	1355.2	1251.9	1196.0	1189.5	1200.3	1150.8
15507.1	42.5°	12910.7	8701.1	2508.1	1525.1	1310.0	1196.0	1142.2	1142.2	1133.6	1064.8
16987.0	45°	14050.8	9301.2	2551.2	1488.5	1256.2	1140.1	1099.2	1084.1	1047.6	980.9
18475.5	47.5°	15199.4	9912.1	2583.4	1421.9	1191.7	1092.7	1056.2	1021.8	968.0	907.8
19936.1	50°	16290.0	10460.6	2549.0	1322.9	1118.6	1047.6	1008.9	961.5	903.4	862.6
21319.2	52.5°	17264.5	10936.0	2402.7	1206.7	1041.1	1000.2	965.8	916.4	869.0	826.0
22566.9	55°	18112.0	11321.1	2144.6	1097.0	972.3	959.4	925.0	862.6	798.0	761.5
23803.7	57.5°	18925.1	11613.6	1822.0	1006.7	909.9	914.2	862.6	806.7	746.4	707.7
25470.8	60°	20007.1	12005.1	1495.0	922.8	843.2	856.1	800.2	759.3	684.0	634.6
28329.6	62.5°	21736.5	12613.9	1187.4	819.6	765.8	770.1	746.4	696.9	606.6	548.5
30448.4	65°	23108.9	12390.2	935.7	707.7	677.6	684.0	684.0	630.3	533.5	466.8
30562.4	67.5°	22954.0	10609.1	746.4	598.0	593.7	598.0	613.1	567.9	473.2	419.5
28234.9	70°	21145.0	8438.6	598.0	496.9	516.3	505.5	548.5	518.4	425.9	372.1
21889.3	72.5°	17253.7	6078.9	456.0	410.9	395.8	413.0	494.7	466.8	354.9	294.7
11594.3	75°	10082.1	3243.8	339.9	324.8	286.1	344.2	438.8	397.9	271.0	217.3
3553.6	77.5°	3282.5	1131.5	249.5	238.8	213.0	277.5	374.3	335.6	221.6	172.1
1041.1	80°	879.8	342.0	169.9	157.0	137.7	206.5	296.8	266.7	159.2	111.9
447.4	82.5°	352.8	144.1	98.9	88.2	75.3	142.0	234.5	215.1	118.3	71.0
139.8	85°	114.0	47.3	36.6	28.0	34.4	88.2	139.8	146.3	83.9	36.6
21.5	87.5°	15.1	6.5	6.5	8.6	6.5	15.1	43.0	40.9	23.7	4.3
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>
4949.6
4364.5
3532.1
2731.9
2230.7
2047.8
1985.4
1914.5
1815.5
1688.6
1550.9
1417.6
1312.2
1241.2
1187.4
1191.7
1153.0
1064.8
978.7
905.6
856.1
821.7
757.2
703.4
628.1
544.2
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