

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: P943565

Luminaire Tested: **GALN-SB8A-835-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-835-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33336 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

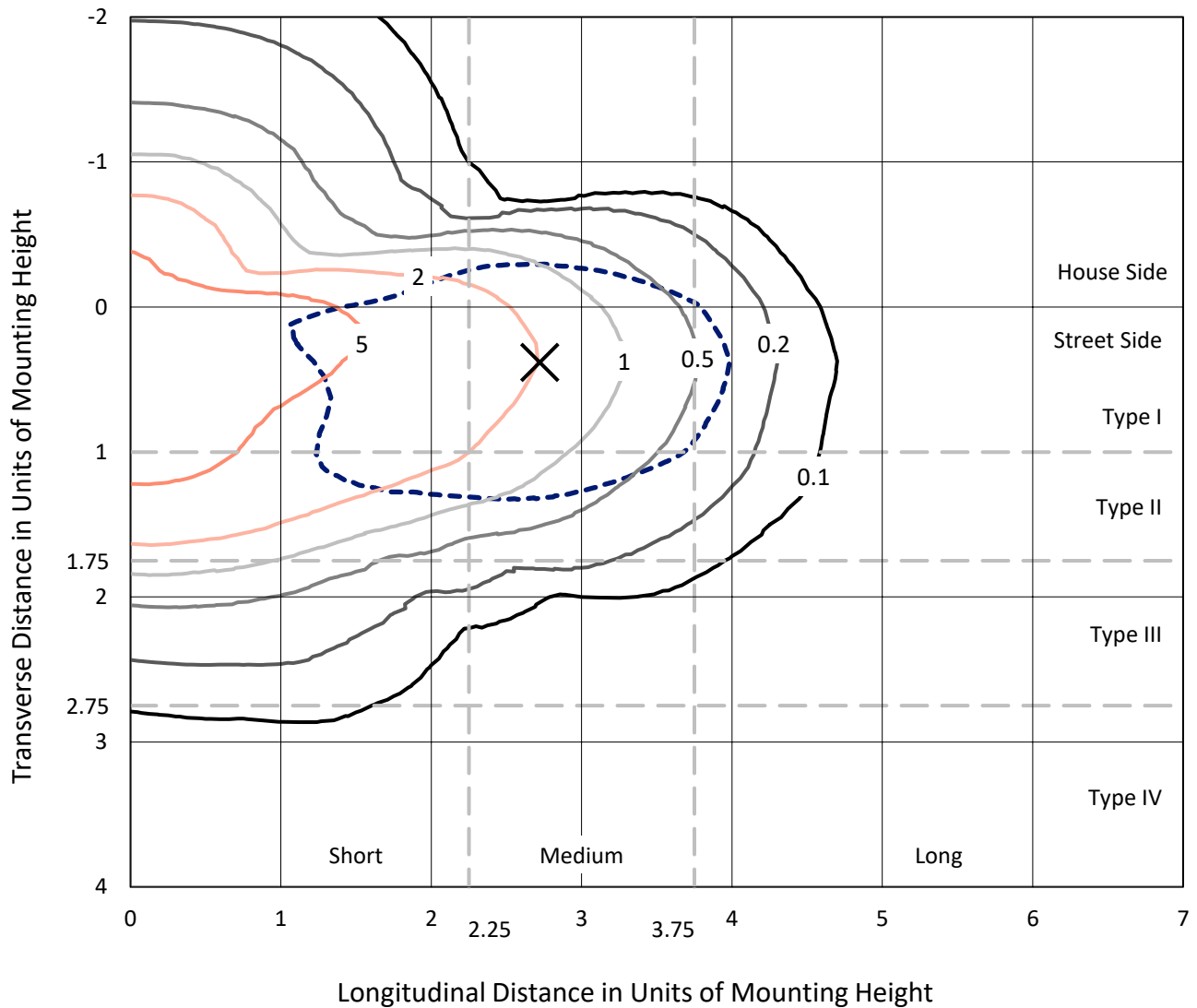
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

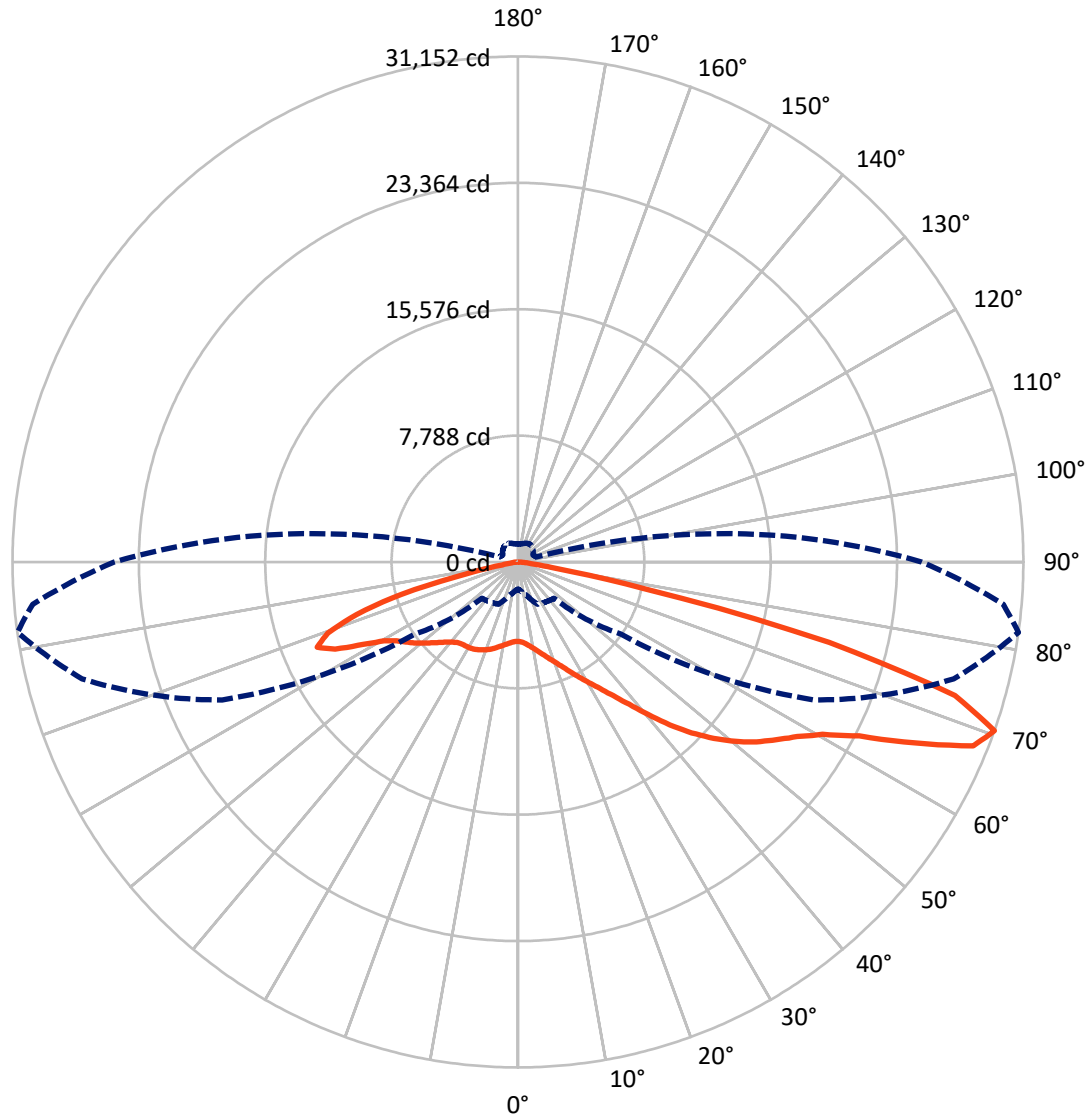
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8218.1	0.0	8218.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	25117.9	0.0	25117.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	33336.0	0.0	33336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.5	1.4
10°-20°	1325.8	4.0
20°-30°	2218.0	6.7
30°-40°	3465.0	10.4
40°-50°	5518.4	16.6
50°-60°	7679.6	23.0
60°-70°	8033.2	24.1
70°-80°	4198.6	12.6
80°-90°	436.0	1.3
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°	33336.0	100.0
0°-180°	33336.0	100.0

Coefficient of Utilization



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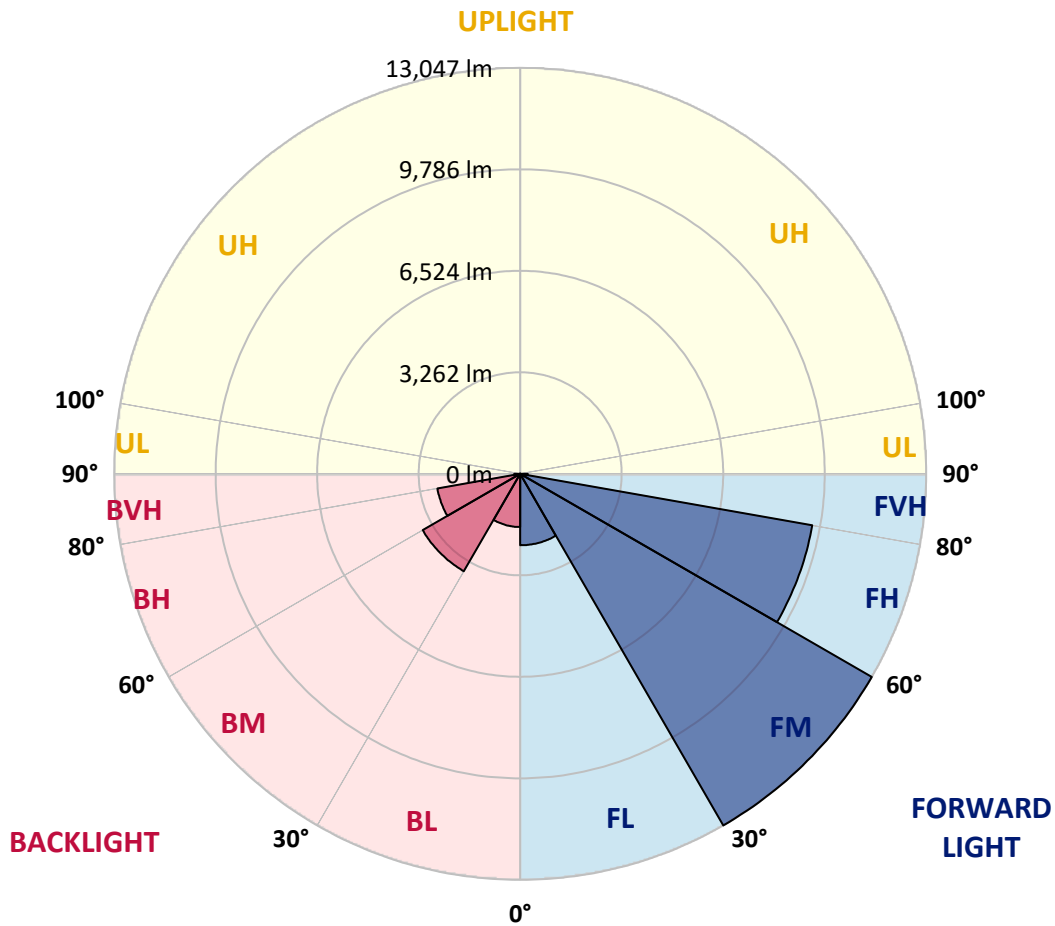
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2295.6	6.9			
FM (30°-60°)	13047.4	39.1			
FH (60°-80°)	9530.9	28.6			G4/12000
FVH (80°-90°)	244.1	0.7			G3/500
BL (0°-30°)	1709.7	5.1	B3/2500		
BM (30°-60°)	3615.7	10.8	B3/5000		
BH (60°-80°)	2700.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	191.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4887.5	4887.5	4887.5	4887.5	4887.5	4887.5	4887.5	4887.5	4887.5	4887.5
2.5°	5004.2	5032.5	5023.7	5014.8	5014.8	5002.5	5000.7	4983.0	4968.8	4945.8
5°	5067.9	5098.0	5094.4	5101.5	5124.5	5129.8	5135.1	5124.5	5096.2	5067.9
7.5°	5011.3	5044.9	5055.5	5098.0	5168.7	5232.4	5280.2	5299.6	5273.1	5232.4
10°	4820.3	4857.4	4894.6	4995.4	5121.0	5271.3	5398.7	5474.7	5469.4	5430.5
12.5°	4432.9	4471.8	4551.4	4747.7	4977.7	5243.0	5480.1	5639.3	5694.1	5665.8
15°	4123.3	4156.9	4217.1	4418.7	4717.7	5121.0	5510.1	5819.7	5959.4	5943.5
17.5°	4114.5	4128.6	4165.8	4261.3	4491.2	4929.9	5478.3	5996.6	6263.7	6261.9
20°	4270.1	4275.4	4296.7	4316.1	4447.0	4784.9	5396.9	6143.4	6605.1	6605.1
22.5°	4485.9	4482.4	4503.6	4485.9	4549.6	4772.5	5345.6	6272.5	6985.4	7013.7
25°	4809.6	4792.0	4786.6	4746.0	4758.3	4887.5	5402.2	6419.3	7436.5	7494.8
27.5°	5241.3	5213.0	5193.5	5099.7	5067.9	5124.5	5575.6	6596.2	7938.8	8039.7
30°	5803.8	5752.5	5724.2	5561.4	5446.4	5455.3	5837.4	6831.5	8464.2	8626.9
32.5°	6571.5	6491.9	6415.8	6148.7	5938.2	5869.2	6175.2	7157.0	9033.8	9293.8
35°	7431.2	7367.5	7286.1	6874.0	6550.2	6391.0	6631.6	7611.6	9700.7	10112.8
37.5°	8259.0	8204.2	8243.1	7687.6	7270.2	7038.5	7229.5	8221.9	10523.2	11131.7
40°	9115.1	9072.7	9078.0	8547.3	8060.9	7800.9	7954.7	8987.8	11466.0	12343.4
42.5°	10045.6	10013.8	9907.6	9437.1	8890.5	8648.2	8789.7	9872.2	12477.8	13723.1
45°	11087.5	11068.0	10969.0	10429.4	9803.3	9530.8	9721.9	10848.7	13494.9	15021.5
47.5°	11987.8	12003.8	11991.4	11536.8	10887.6	10487.8	10716.0	11867.6	14441.3	16242.1
50°	12421.2	12504.4	12626.4	12484.9	12081.6	11674.7	11719.0	12851.1	15343.5	17386.5
52.5°	12194.8	12352.2	12684.8	12911.2	13066.9	12982.0	12863.5	13827.5	16192.5	18419.6
55°	11351.0	11572.2	12124.0	12670.6	13464.9	14082.2	14237.9	14910.1	17020.4	19328.8
57.5°	9813.9	10173.0	10668.2	11773.8	13111.1	14614.7	15840.5	16411.9	17897.7	20299.9
60°	7178.2	7659.3	8274.9	9920.0	11872.9	14329.9	17204.3	18718.5	19144.8	21557.6
62.5°	4593.8	4891.0	5457.1	7006.6	9251.4	12870.5	17621.8	21601.8	21258.7	23620.1
65°	3145.1	3336.1	3854.4	4724.7	5980.7	9580.4	16503.8	23763.4	24616.0	26889.1
67.5°	2285.4	2430.5	2872.7	3635.1	3896.9	5669.3	12806.8	23664.4	27879.7	30257.1
70°	1666.3	1768.9	2140.4	2872.7	2998.3	3154.0	7758.4	20115.9	27808.9	31152.1
72.5°	1234.7	1305.4	1554.9	2228.8	2426.9	2129.8	3840.3	14620.0	23896.1	28176.8
75°	893.3	946.4	1130.3	1705.2	1942.3	1622.1	1915.7	8543.8	16668.4	19820.5
77.5°	682.8	723.5	843.8	1248.8	1554.9	1217.0	1188.7	3930.5	7903.5	7942.4
80°	548.4	574.9	640.3	879.1	1192.2	911.0	774.8	1586.7	2497.7	2113.8
82.5°	403.3	447.5	541.3	617.3	852.6	628.0	472.3	801.3	949.9	817.2
85°	230.0	260.0	327.2	442.2	544.8	383.9	270.6	355.5	442.2	362.6
87.5°	81.4	106.1	115.0	173.4	237.0	159.2	104.4	102.6	145.0	107.9
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°
4887.5	0°	4887.5	4887.5	4887.5	4887.5	4887.5	4887.5	4887.5	4887.5	4887.5	4887.5
4940.5	2.5°	4922.9	4914.0	4878.6	4830.9	4781.3	4733.6	4717.7	4684.1	4661.1	4648.7
5055.5	5°	5021.9	4993.6	4910.5	4804.3	4692.9	4572.6	4487.7	4409.9	4353.3	4300.2
5213.0	7.5°	5163.4	5113.9	4970.6	4784.9	4586.8	4386.9	4238.3	4125.1	4049.0	3999.5
5396.9	10°	5327.9	5251.9	5032.5	4754.8	4448.8	4162.2	3987.1	3889.8	3842.1	3815.5
5607.4	12.5°	5517.2	5409.3	5096.2	4685.8	4238.3	3911.0	3790.8	3762.5	3764.2	3766.0
5872.8	15°	5750.7	5600.3	5147.5	4535.5	3964.1	3718.2	3697.0	3743.0	3790.8	3813.8
6173.5	17.5°	6014.3	5802.0	5156.3	4287.8	3695.2	3594.4	3661.6	3760.7	3833.2	3865.0
6509.6	20°	6297.3	6007.2	5092.7	3937.6	3474.1	3493.6	3613.9	3741.2	3820.8	3861.5
6893.4	22.5°	6621.0	6226.5	4940.5	3569.6	3293.7	3383.9	3525.4	3649.2	3732.4	3773.1
7344.5	25°	6990.7	6472.4	4701.7	3260.1	3138.0	3260.1	3401.6	3504.2	3571.4	3608.6
7848.6	27.5°	7401.1	6728.9	4383.3	3014.2	3001.8	3132.7	3249.5	3329.1	3364.5	3392.8
8384.6	30°	7813.2	6962.4	3997.7	2828.5	2883.3	3007.1	3090.3	3125.6	3136.3	3141.6
8982.5	32.5°	8259.0	7164.1	3592.6	2674.6	2770.1	2885.1	2934.6	2950.5	2901.0	2867.4
9707.7	35°	8798.5	7379.9	3196.4	2552.5	2658.7	2757.7	2773.6	2759.5	2701.1	2632.1
10616.9	37.5°	9465.4	7648.7	2879.8	2465.8	2554.3	2619.7	2600.3	2596.7	2602.1	2520.7
11710.1	40°	10282.6	7999.0	2648.0	2398.6	2469.4	2483.5	2428.7	2458.8	2485.3	2361.5
12909.4	42.5°	11190.1	8421.7	2501.2	2352.6	2398.6	2365.0	2280.1	2313.7	2310.2	2147.4
14114.1	45°	12115.2	8881.7	2449.9	2319.0	2333.2	2266.0	2172.2	2181.1	2106.8	1959.9
15269.2	47.5°	13035.0	9375.2	2481.8	2290.7	2251.8	2175.7	2103.2	2064.3	1954.6	1845.0
16376.5	50°	13937.2	9893.5	2598.5	2234.1	2140.4	2096.1	2043.1	1974.1	1857.3	1763.6
17423.7	52.5°	14773.9	10415.3	2729.4	2140.4	2000.6	2027.2	1993.6	1914.0	1799.0	1703.5
18414.3	55°	15566.3	10937.1	2780.7	2011.2	1869.7	1967.0	1947.6	1800.7	1662.8	1584.9
19450.8	57.5°	16429.6	11565.1	2724.1	1846.7	1763.6	1898.0	1823.7	1661.0	1581.4	1523.0
20800.5	60°	17625.3	12550.4	2602.1	1643.3	1662.8	1795.4	1668.1	1600.9	1514.2	1448.7
22824.1	62.5°	19611.8	14388.2	2405.7	1441.7	1544.3	1643.3	1593.8	1526.6	1438.1	1374.4
26284.1	65°	22548.2	16942.5	2036.0	1284.2	1411.6	1494.7	1514.2	1447.0	1355.0	1287.8
29316.0	67.5°	25024.6	18545.2	1540.7	1153.3	1275.4	1374.4	1429.3	1363.8	1266.5	1201.1
30025.3	70°	24888.4	17381.2	1176.3	1024.2	1155.1	1255.9	1326.7	1275.4	1171.0	1109.1
27272.9	72.5°	22106.0	14540.4	951.7	893.3	1033.0	1132.1	1217.0	1178.1	1072.0	1011.8
19979.7	75°	16240.3	10321.5	760.6	760.6	880.9	1003.0	1096.7	1072.0	974.7	932.2
8388.1	77.5°	6845.6	4330.3	596.1	631.5	732.3	861.5	978.2	987.0	902.1	955.2
2218.2	80°	1820.2	1194.0	454.6	497.1	574.9	711.1	850.8	847.3	755.3	705.8
824.3	82.5°	693.4	470.5	323.7	350.2	415.7	544.8	674.0	695.2	603.2	521.8
323.7	85°	267.1	201.7	199.9	210.5	242.3	360.9	509.4	527.1	454.6	385.6
90.2	87.5°	69.0	60.1	74.3	70.8	111.4	192.8	291.9	302.5	277.7	161.0
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>
4887.5
4662.8
4321.4
4010.1
3822.6
3769.5
3812.0
3872.1
3872.1
3783.7
3619.2
3403.4
3154.0
2878.0
2635.7
2526.0
2365.0
2145.7
1965.2
1845.0
1756.5
1705.2
1577.9
1517.7
1445.2
1374.4
1291.3
1202.9
1114.4
1011.8
919.8
866.8
656.3
521.8
398.0
230.0
0.0

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