

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: P941348

Luminaire Tested: **GALN-SB4D-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27746 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

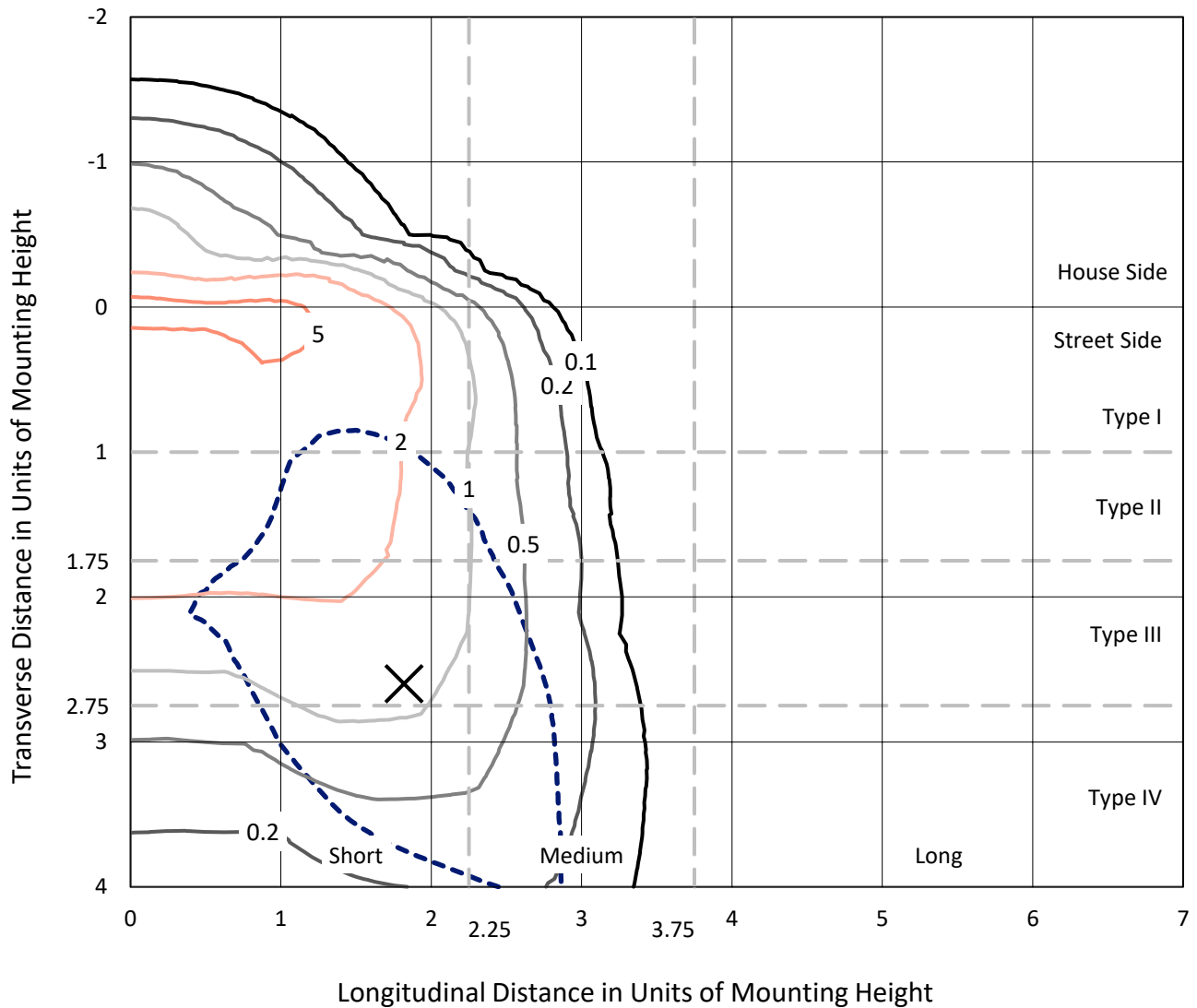
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

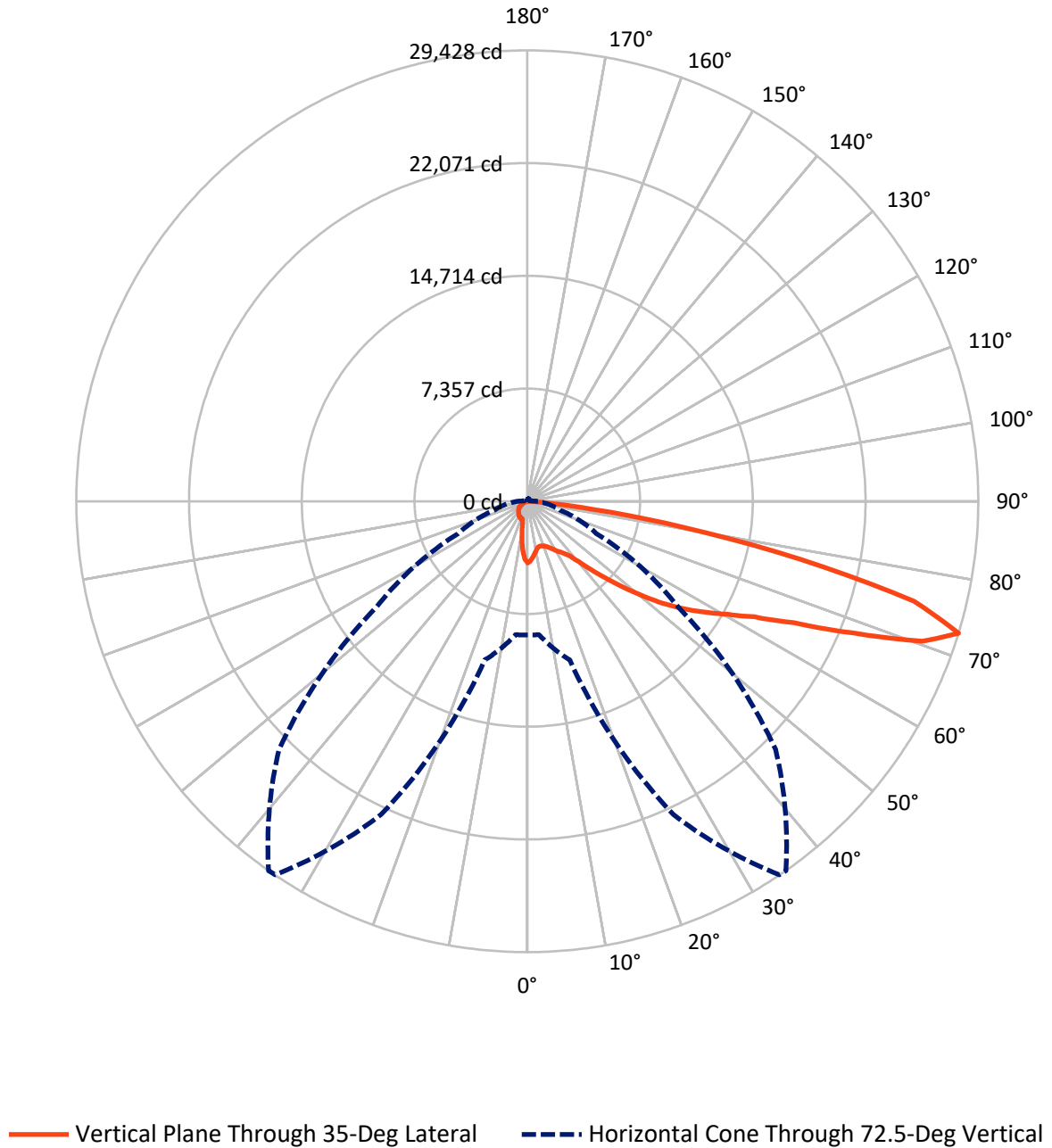
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3122.7	0.0	3122.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	24623.3	0.0	24623.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	27746.0	0.0	27746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.4	1.2
10°-20°	773.0	2.8
20°-30°	1255.8	4.5
30°-40°	2095.3	7.6
40°-50°	3964.3	14.3
50°-60°	6299.2	22.7
60°-70°	7792.6	28.1
70°-80°	4843.9	17.5
80°-90°	391.5	1.4
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°	27746.0	100.0
0°-180°	27746.0	100.0

Coefficient of Utilization



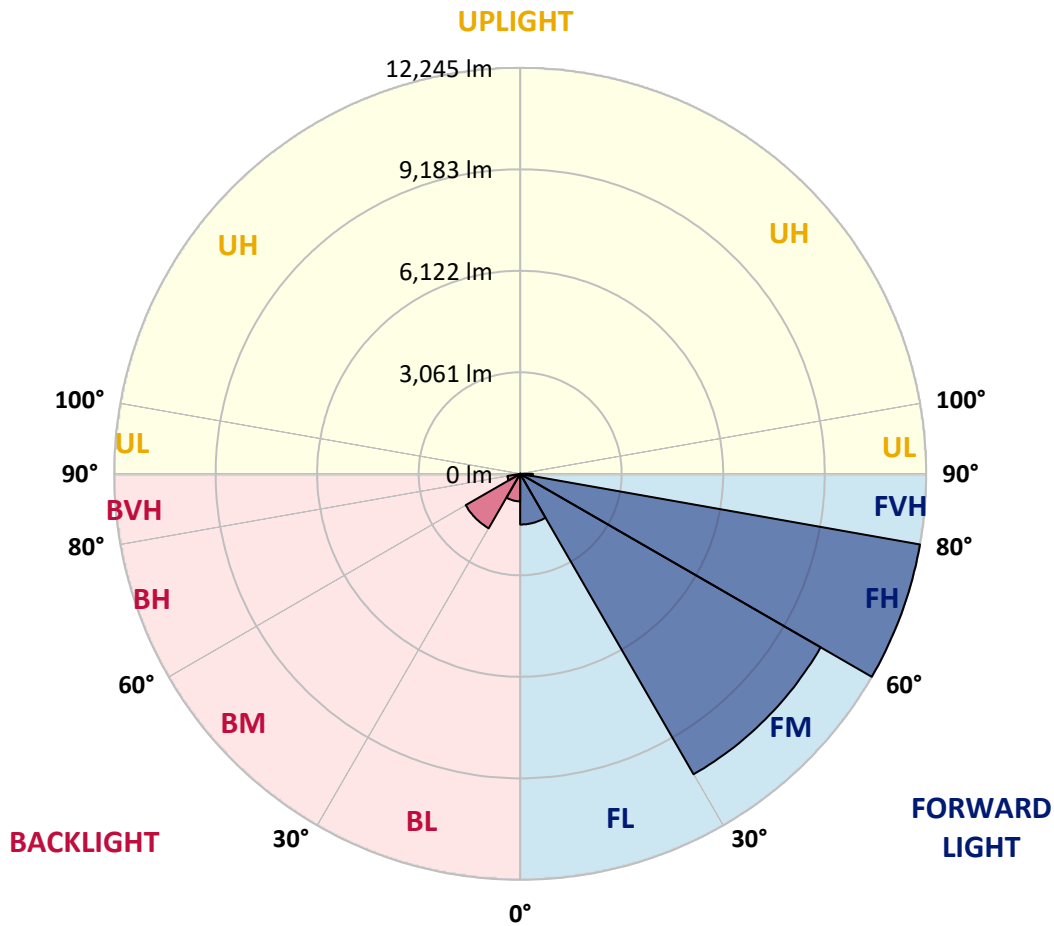
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1529.5	5.5			
FM (30°-60°)	10463.0	37.7			
FH (60°-80°)	12244.7	44.1			G5
FVH (80°-90°)	386.1	1.4			G3/500
BL (0°-30°)	829.8	3.0	B2/1000		
BM (30°-60°)	1895.8	6.8	B2/2500		
BH (60°-80°)	391.8	1.4	B1/500		G1/500
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3
2.5°	3842.4	3874.9	3881.0	3891.2	3891.2	3903.4	3923.7	3952.2	3999.0	4023.4
5°	3541.5	3565.9	3596.4	3620.8	3667.6	3673.7	3753.0	3830.2	3938.0	4019.3
7.5°	3238.6	3267.1	3307.7	3366.7	3427.7	3446.0	3565.9	3696.0	3866.8	4019.3
10°	3025.1	3027.2	3063.8	3122.7	3220.3	3242.7	3389.1	3574.1	3787.5	3994.9
12.5°	2905.2	2919.4	2935.7	2980.4	3073.9	3088.2	3244.7	3462.2	3708.2	3980.7
15°	2905.2	2915.4	2925.5	2947.9	3023.1	3035.3	3173.6	3391.1	3667.6	3986.8
17.5°	2935.7	2952.0	2943.8	2970.3	3049.5	3057.7	3179.7	3370.8	3665.5	4025.4
20°	3008.9	3021.1	3004.8	3021.1	3100.4	3116.6	3242.7	3409.4	3700.1	4092.5
22.5°	3124.8	3130.9	3092.2	3104.4	3185.8	3206.1	3352.5	3519.2	3783.5	4200.2
25°	3271.1	3283.3	3224.4	3238.6	3315.9	3340.3	3509.0	3683.8	3915.6	4348.6
27.5°	3439.9	3446.0	3395.2	3393.1	3492.7	3527.3	3698.1	3887.1	4092.5	4535.7
30°	3633.0	3651.3	3602.5	3594.4	3720.4	3748.9	3917.6	4137.2	4352.7	4816.2
32.5°	3785.5	3799.7	3771.3	3791.6	3919.7	3942.0	4184.0	4491.0	4761.3	5214.7
35°	4005.1	4013.2	3948.1	3984.7	4131.1	4188.0	4547.9	4987.0	5275.7	5714.8
37.5°	4800.0	4800.0	4523.5	4342.5	4482.8	4533.6	5046.0	5611.2	5910.0	6385.7
40°	5899.8	5881.5	5477.0	5107.0	5088.7	5188.3	5755.5	6397.9	6729.3	7190.8
42.5°	7072.9	7044.4	6493.5	6127.5	6066.5	6101.1	6574.8	7367.7	7705.2	8172.8
45°	8113.8	8105.7	7601.5	7109.5	6999.7	7109.5	7597.4	8502.1	8744.0	9236.0
47.5°	8986.0	8986.0	8618.0	8296.8	8239.9	8304.9	8981.9	9760.6	9738.2	10368.4
50°	9990.3	9982.2	9632.5	9494.2	9553.2	9644.7	10575.8	11086.1	10766.9	11480.5
52.5°	10693.7	10742.5	10622.6	10600.2	10901.1	11059.7	12194.1	12383.2	11687.9	12535.6
55°	11250.8	11307.7	11445.9	11602.5	12181.9	12389.3	13761.6	13613.1	12458.4	13450.5
57.5°	12039.6	11958.3	12171.7	12480.7	13418.0	13668.0	15280.2	14774.0	13078.5	14192.6
60°	12997.1	13009.3	13045.9	13436.3	14652.0	14973.2	16776.5	15871.8	13476.9	14648.0
62.5°	14147.8	14166.1	14241.3	14841.1	16308.9	16611.9	18370.4	16770.4	13659.9	14519.9
65°	14068.5	14145.8	14985.4	17036.8	18827.9	19126.7	20230.6	17400.7	13383.4	13348.8
67.5°	12816.2	12942.2	14347.1	19659.4	22625.5	22959.0	22479.2	17524.7	12190.0	10380.6
70°	11173.5	11218.2	12907.7	22017.7	27023.0	27360.5	24491.9	16160.5	9250.3	5790.1
72.5°	8725.7	8735.9	10718.1	22564.6	29409.8	29428.1	22912.2	11996.9	4974.8	2224.1
75°	6233.3	6172.3	7178.6	18299.3	25874.3	26081.7	17177.0	5627.4	1900.9	1051.1
77.5°	3342.3	3409.4	4062.0	10852.3	17874.4	18228.1	9372.3	1622.4	967.7	715.6
80°	1032.8	1089.7	1665.0	4968.7	10124.5	10337.9	3474.4	721.7	675.0	510.3
82.5°	325.3	337.5	776.6	2087.9	4202.3	4299.9	1006.3	408.6	461.5	337.5
85°	93.5	95.6	345.6	778.6	1038.9	1059.2	282.6	158.6	264.3	209.4
87.5°	10.2	32.5	130.1	130.1	91.5	89.5	30.5	34.6	75.2	26.4
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°
4021.3	0°	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3	4021.3
4039.6	2.5°	4029.5	4031.5	4005.1	3960.3	3911.5	3870.9	3820.1	3779.4	3750.9	3742.8
4076.2	5°	4057.9	4043.7	3968.5	3832.3	3669.6	3529.3	3372.8	3248.8	3167.5	3132.9
4114.8	7.5°	4100.6	4060.0	3895.3	3626.9	3315.9	3039.4	2758.8	2541.3	2403.0	2333.9
4151.4	10°	4137.2	4055.9	3773.3	3330.1	2854.4	2435.6	2057.4	1795.2	1648.8	1579.7
4194.1	12.5°	4171.8	4053.9	3614.7	2978.4	2333.9	1821.6	1469.9	1339.8	1299.1	1284.9
4263.3	15°	4236.8	4060.0	3415.5	2575.8	1815.5	1376.4	1248.3	1246.2	1254.4	1250.3
4369.0	17.5°	4326.3	4066.1	3189.8	2148.9	1400.8	1213.7	1207.6	1225.9	1238.1	1232.0
4501.1	20°	4442.2	4090.4	2949.9	1726.0	1203.6	1173.1	1187.3	1203.6	1213.7	1203.6
4678.0	22.5°	4604.8	4133.1	2687.7	1386.5	1140.5	1148.7	1160.9	1179.2	1189.3	1175.1
4903.7	25°	4804.0	4200.2	2429.5	1205.6	1110.0	1120.2	1138.5	1158.8	1171.0	1156.8
5188.3	27.5°	5062.2	4308.0	2191.6	1164.9	1079.5	1085.6	1112.1	1142.6	1158.8	1140.5
5592.9	30°	5436.3	4484.9	1986.3	1183.2	1061.2	1047.0	1083.6	1126.3	1144.6	1128.3
6143.8	32.5°	5932.4	4734.9	1860.2	1211.7	1053.1	1002.3	1036.8	1091.7	1122.2	1112.1
6863.5	35°	6582.9	5115.1	1811.4	1244.2	1047.0	955.5	979.9	1038.9	1091.7	1101.9
7770.2	37.5°	7371.8	5643.7	1825.7	1258.4	1028.7	916.9	929.1	979.9	1049.0	1081.6
8790.8	40°	8268.3	6259.7	1907.0	1244.2	1008.4	884.4	886.4	925.0	986.0	1034.8
9888.6	42.5°	9193.3	6979.4	2057.4	1191.4	990.1	855.9	849.8	876.2	916.9	951.5
10984.4	45°	10073.6	7719.4	2205.8	1118.2	967.7	827.4	813.2	823.4	831.5	845.7
12051.8	47.5°	10842.1	8239.9	2163.1	1051.1	937.2	794.9	770.5	766.5	742.1	740.0
13005.3	50°	11372.7	8353.7	1921.2	984.0	892.5	758.3	719.7	695.3	652.6	632.3
13718.9	52.5°	11541.5	7904.4	1569.5	916.9	819.3	709.5	654.6	616.0	563.1	544.9
14129.5	55°	11317.9	7024.1	1254.4	835.6	717.7	644.5	583.5	532.7	490.0	467.6
14174.3	57.5°	10771.0	5903.9	992.1	740.0	609.9	571.3	510.3	459.5	422.9	400.5
13678.2	60°	9864.2	4688.2	784.7	626.2	520.5	492.0	429.0	396.4	363.9	337.5
12397.4	62.5°	8487.9	3346.4	616.0	496.1	435.1	402.5	365.9	341.5	302.9	266.3
10094.0	65°	6623.6	2047.3	475.7	363.9	349.7	333.4	311.1	288.7	241.9	205.3
6585.0	67.5°	4177.9	969.8	339.5	274.5	276.5	268.4	258.2	239.9	205.3	172.8
2949.9	70°	1839.9	469.6	223.6	209.4	205.3	205.3	213.5	207.4	174.8	144.3
1024.6	72.5°	626.2	252.1	166.7	158.6	148.4	146.4	178.9	172.8	140.3	111.8
510.3	75°	327.3	168.7	122.0	113.8	89.5	107.8	142.3	134.2	99.6	73.2
337.5	77.5°	213.5	119.9	83.4	73.2	50.8	71.2	105.7	93.5	59.0	36.6
221.6	80°	134.2	79.3	48.8	34.6	24.4	38.6	56.9	40.7	22.4	8.1
130.1	82.5°	71.2	40.7	18.3	12.2	10.2	12.2	14.2	10.2	4.1	0.0
67.1	85°	28.5	14.2	6.1	4.1	2.0	0.0	4.1	2.0	0.0	0.0
12.2	87.5°	10.2	2.0	0.0	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>
4021.3
3757.0
3145.1
2344.1
1581.7
1280.8
1248.3
1230.0
1201.5
1173.1
1154.8
1140.5
1126.3
1112.1
1101.9
1089.7
1051.1
965.7
853.9
738.0
634.3
542.8
467.6
396.4
331.4
260.2
199.2
168.7
138.2
105.7
67.1
32.5
6.1
0.0
0.0
0.0
0.0

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