

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: P952403

Luminaire Tested: **GALN-SB6B-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28912 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

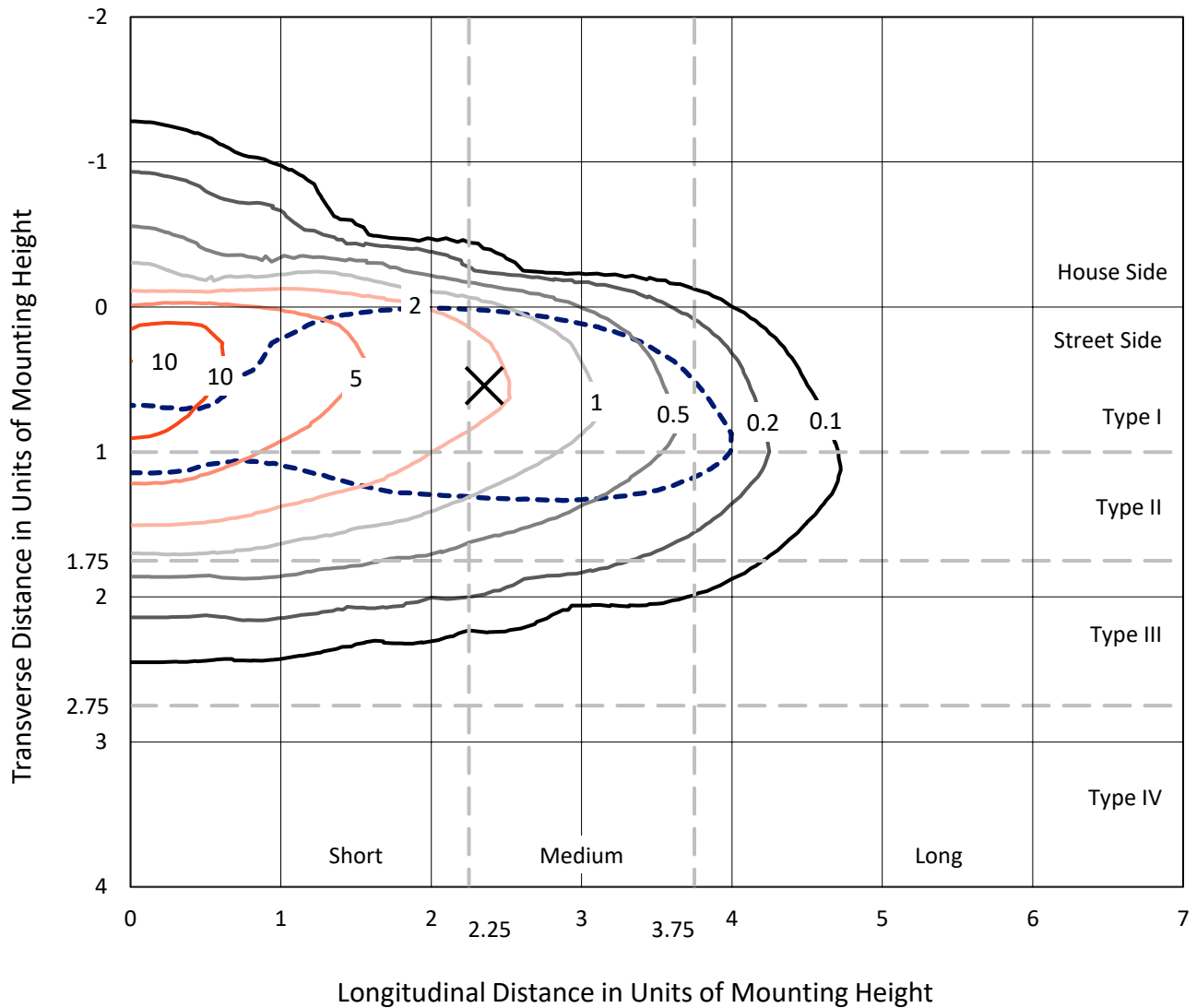
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

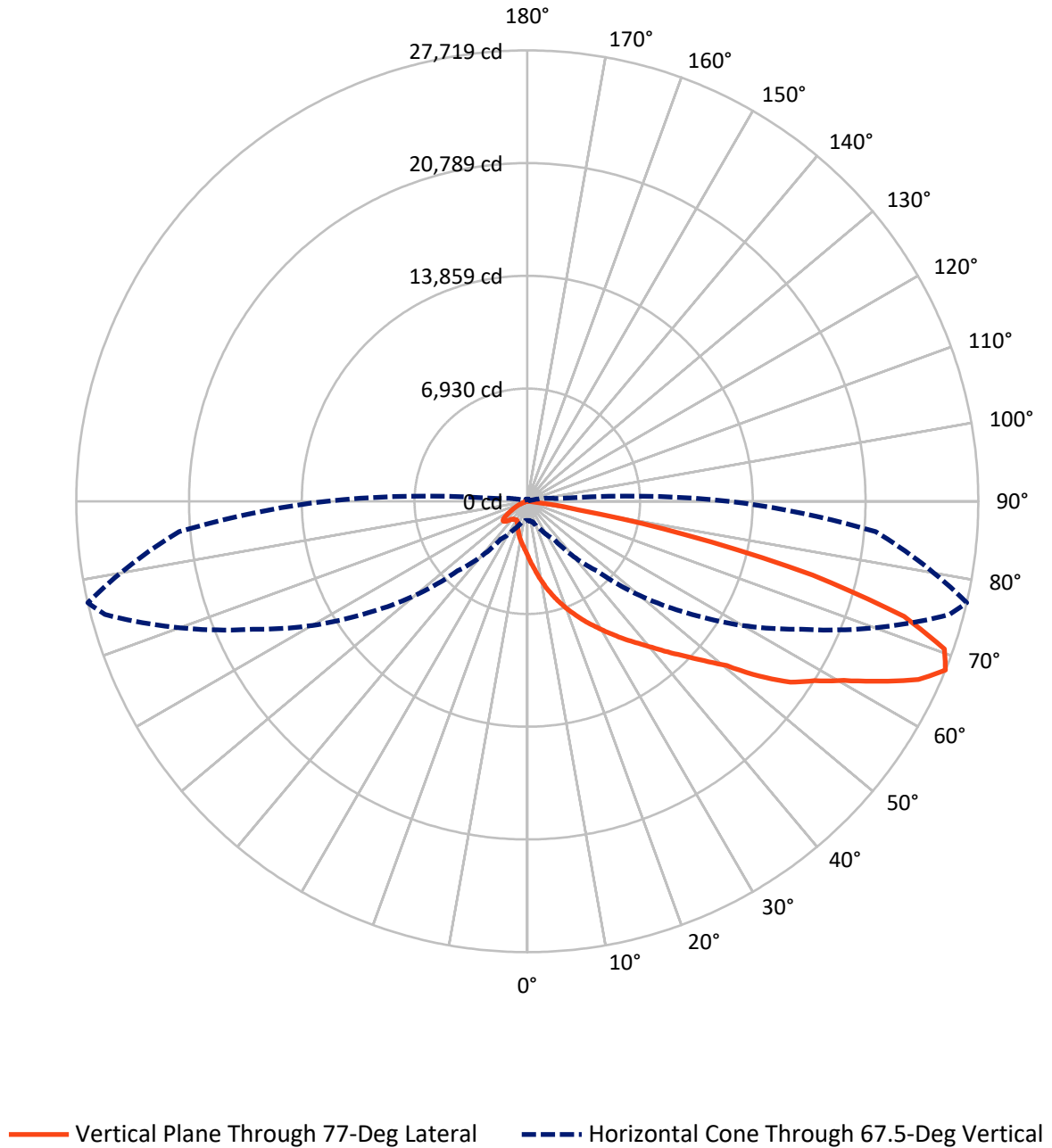
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2127.1	0.0	2127.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	26784.9	0.0	26784.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	28912.0	0.0	28912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.3	1.2
10°-20°	1191.6	4.1
20°-30°	2299.5	8.0
30°-40°	3992.1	13.8
40°-50°	5796.4	20.0
50°-60°	6656.4	23.0
60°-70°	5779.0	20.0
70°-80°	2722.0	9.4
80°-90°	134.6	0.5
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°	28912.0	100.0
0°-180°	28912.0	100.0

Coefficient of Utilization



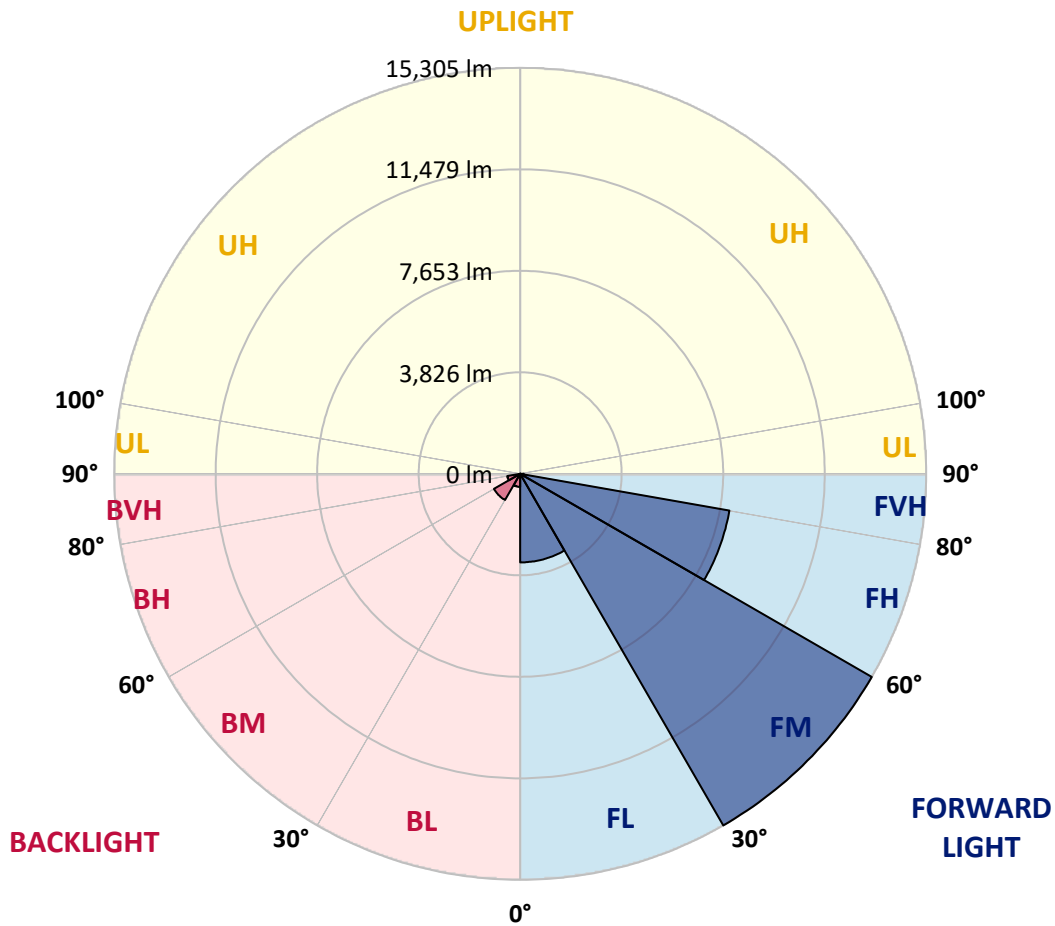
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3339.0	11.5			
FM (30°-60°)	15305.2	52.9			
FH (60°-80°)	8008.5	27.7			G4/12000
FVH (80°-90°)	132.1	0.5			G2/225
BL (0°-30°)	492.4	1.7	B1/500		
BM (30°-60°)	1139.7	3.9	B2/2500		
BH (60°-80°)	492.4	1.7	B1/500		G1/500
BVH (80°-90°)	2.5	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3334.0	3334.0	3334.0	3334.0	3334.0	3334.0	3334.0	3334.0	3334.0	3334.0
2.5°	4615.9	4644.6	4603.3	4524.3	4405.8	4328.6	4140.1	3962.4	3764.9	3702.0
5°	5626.6	5651.8	5605.1	5518.9	5360.9	5210.1	4962.4	4590.7	4204.7	4080.8
7.5°	6375.3	6389.7	6371.7	6292.7	6141.9	5971.4	5694.9	5255.0	4682.3	4545.8
10°	6913.9	6960.6	6955.2	6924.7	6824.2	6685.9	6391.5	5890.6	5217.3	5041.4
12.5°	7271.2	7323.3	7353.8	7422.0	7416.6	7328.6	7070.1	6540.5	5750.5	5544.1
15°	7375.3	7431.0	7547.7	7705.7	7845.7	7890.6	7709.3	7177.8	6337.6	6073.7
17.5°	7316.1	7402.3	7542.3	7791.9	8098.9	8301.7	8282.0	7793.6	6870.8	6569.2
20°	7447.1	7529.7	7639.2	7849.3	8206.6	8574.6	8721.8	8382.5	7400.5	7084.5
22.5°	8172.5	8158.1	8168.9	8203.0	8416.6	8781.1	9084.5	8917.5	7924.7	7601.5
25°	9321.5	9256.9	9147.3	8962.4	8908.6	9084.5	9400.5	9391.5	8477.7	8131.2
27.5°	10639.3	10628.5	10371.8	9926.5	9675.2	9607.0	9757.8	9852.9	9025.3	8655.4
30°	11901.4	11930.1	11583.6	11088.1	10626.7	10359.2	10222.8	10291.0	9581.8	9221.0
32.5°	13000.2	13030.7	12653.7	12073.8	11502.9	11179.7	10892.4	10723.7	10188.7	9795.5
35°	13928.4	13958.9	13526.2	12885.3	12276.7	11984.0	11659.1	11197.6	10799.1	10432.8
37.5°	14757.8	14748.9	14169.0	13522.6	12924.8	12693.2	12522.6	11781.1	11427.4	11073.8
40°	15248.0	15285.7	14790.2	14077.4	13497.5	13328.7	13318.0	12504.7	12152.8	11809.9
42.5°	15391.6	15458.0	15099.0	14513.7	13987.6	13804.5	14086.4	13287.4	12996.6	12662.7
45°	15133.1	15197.7	15034.3	14628.6	14321.6	14203.1	14747.1	14098.9	13897.9	13567.5
47.5°	14379.0	14459.8	14499.3	14413.1	14409.5	14529.8	15339.5	14953.5	14967.9	14630.4
50°	12919.4	13055.8	13418.5	13723.7	14195.9	14788.4	15915.8	15879.9	16174.4	15883.5
52.5°	10265.9	10459.8	11709.3	12544.2	13605.2	14739.9	16549.6	17366.5	18291.1	17865.6
55°	8249.7	8249.7	9265.8	10827.8	12452.6	14420.3	16826.1	18332.4	19732.8	19632.2
57.5°	6725.4	6806.2	7454.3	8835.0	10784.7	13659.1	16996.6	18939.2	20894.4	20820.8
60°	4150.9	4325.0	5549.4	6912.1	8887.0	12303.6	16888.9	19553.2	22303.7	22363.0
62.5°	2337.6	2402.2	2948.0	4973.1	6910.3	10481.3	16064.9	19896.2	24106.3	24357.6
65°	1614.0	1646.3	1856.4	3095.2	4790.0	8344.8	14454.4	19682.5	25912.4	26420.5
67.5°	1172.4	1188.5	1319.6	1890.5	2842.1	6050.4	11930.1	18605.3	26869.3	27718.5
70°	901.3	912.0	1007.2	1242.4	1678.7	3734.3	8664.4	16463.4	26176.3	27190.7
72.5°	732.5	743.3	816.9	919.2	1113.1	2208.3	5251.4	13370.0	23117.0	24212.2
75°	617.6	632.0	698.4	764.8	872.5	1418.3	2463.2	9310.7	17384.4	18102.6
77.5°	342.9	316.0	567.3	633.8	736.1	897.7	1152.6	5479.4	9736.2	9935.5
80°	213.6	220.8	450.6	509.9	565.5	452.4	527.8	2109.5	3375.3	3206.5
82.5°	12.6	28.7	346.5	368.0	387.8	193.9	199.3	716.3	813.3	746.9
85°	0.0	0.0	158.0	127.5	134.7	55.7	57.5	167.0	109.5	118.5
87.5°	0.0	0.0	0.0	3.6	0.0	5.4	10.8	14.4	5.4	7.2
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°
3334.0	0°	3334.0	3334.0	3334.0	3334.0	3334.0	3334.0	3334.0	3334.0	3334.0	3334.0
3504.5	2.5°	3378.9	3253.2	2998.2	2748.7	2545.8	2357.3	2222.7	2095.2	2030.5	2027.0
3730.8	5°	3481.2	3217.3	2707.4	2256.8	1894.1	1603.3	1414.7	1280.1	1211.9	1188.5
4009.0	7.5°	3624.8	3228.1	2452.5	1825.9	1398.6	1149.0	1041.3	998.2	983.9	967.7
4323.2	10°	3806.2	3253.2	2224.4	1470.4	1102.3	976.7	933.6	915.6	904.9	894.1
4676.9	12.5°	4009.0	3276.5	1998.2	1220.8	969.5	904.9	874.3	852.8	838.4	825.9
5039.6	15°	4206.5	3290.9	1763.0	1046.7	901.3	849.2	816.9	793.5	773.8	759.4
5395.0	17.5°	4402.2	3310.6	1542.2	942.6	845.6	793.5	761.2	732.5	716.3	700.2
5768.5	20°	4619.5	3307.0	1334.0	869.0	790.0	737.9	703.8	676.8	660.7	642.7
6163.5	22.5°	4820.5	3289.1	1150.8	806.1	732.5	682.2	644.5	617.6	601.4	587.1
6567.4	25°	5052.1	3274.7	998.2	748.7	678.6	628.4	587.1	561.9	544.0	531.4
6973.2	27.5°	5274.8	3253.2	886.9	696.6	626.6	578.1	538.6	509.9	493.7	484.7
7391.5	30°	5493.8	3247.8	845.6	646.3	579.9	531.4	491.9	465.0	452.4	448.8
7851.1	32.5°	5757.7	3262.2	863.6	628.4	536.8	488.3	450.6	430.9	418.3	418.3
8362.8	35°	6039.6	3258.6	890.5	644.5	508.1	445.2	416.5	404.0	391.4	391.4
8930.1	37.5°	6393.3	3264.0	912.0	671.5	497.3	409.3	393.2	377.0	369.8	369.8
9551.3	40°	6921.1	3441.7	901.3	694.8	493.7	384.2	351.9	346.5	341.1	341.1
10253.3	42.5°	7567.4	3827.7	915.6	696.6	491.9	366.3	323.2	333.9	321.4	319.6
11045.0	45°	8274.8	4249.6	1007.2	658.9	490.1	357.3	308.8	321.4	301.6	301.6
11962.5	47.5°	8976.8	4667.9	1100.6	605.0	484.7	355.5	296.2	289.1	283.7	285.5
13158.2	50°	9944.5	5009.0	1136.5	531.4	472.2	351.9	272.9	274.7	271.1	274.7
14844.0	52.5°	10998.4	5080.9	1093.4	448.8	436.3	341.1	256.7	263.9	262.1	265.7
16030.7	55°	11655.5	5003.7	903.1	373.4	380.6	298.0	240.6	254.9	254.9	254.9
17190.5	57.5°	12334.1	4675.1	640.9	303.4	316.0	244.2	226.2	246.0	244.2	242.4
18587.3	60°	12822.4	4143.7	421.9	249.6	251.4	201.1	210.1	231.6	229.8	220.8
20027.2	62.5°	13186.9	3556.6	271.1	211.9	192.1	181.3	192.1	210.1	202.9	183.1
21248.1	65°	13145.6	2743.3	208.3	181.3	158.0	158.0	167.0	183.1	161.6	129.3
21481.5	67.5°	12379.0	1856.4	172.4	152.6	132.9	131.1	138.2	152.6	138.2	109.5
20285.7	70°	11009.1	1213.7	138.2	118.5	105.9	96.9	111.3	131.1	116.7	88.0
17269.5	72.5°	8935.5	739.7	104.1	86.2	77.2	62.8	88.0	107.7	93.4	64.6
12009.1	75°	5781.1	377.0	71.8	55.7	41.3	37.7	64.6	80.8	64.6	39.5
5328.6	77.5°	2211.9	158.0	39.5	25.1	21.5	18.0	35.9	48.5	26.9	9.0
1032.3	80°	425.5	66.4	19.7	12.6	10.8	7.2	5.4	3.6	0.0	0.0
183.1	82.5°	73.6	21.5	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
35.9	85°	25.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.6	87.5°	9.0	0.0	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

180°
3334.0
2023.4
1184.9
964.1
890.5
822.3
757.6
698.4
640.9
585.3
529.6
484.7
447.0
418.3
391.4
369.8
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301.6
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274.7
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