

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: P951353

Luminaire Tested: **GALN-SB5C-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951353
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-SB5C-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA 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: 33887 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

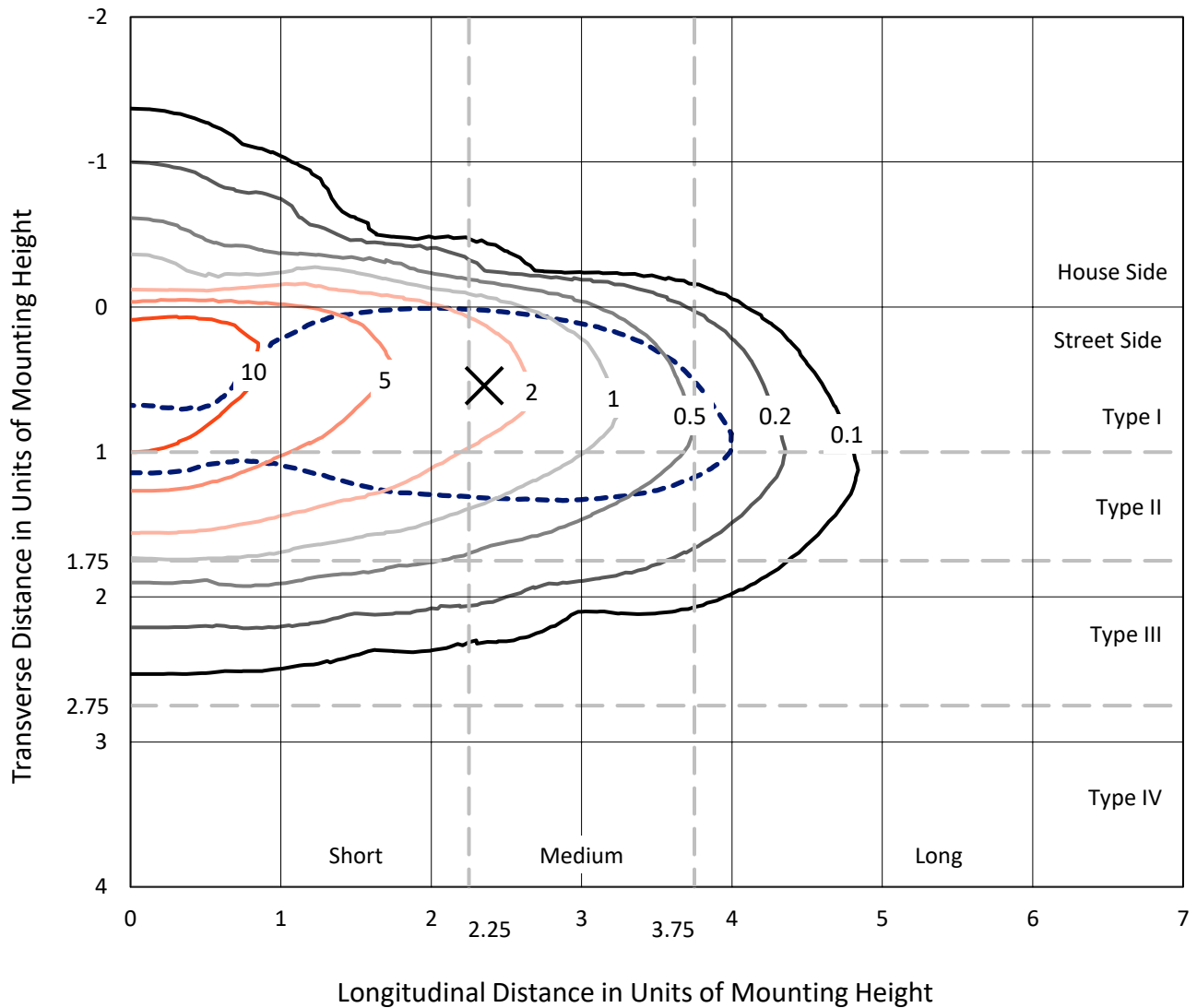
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

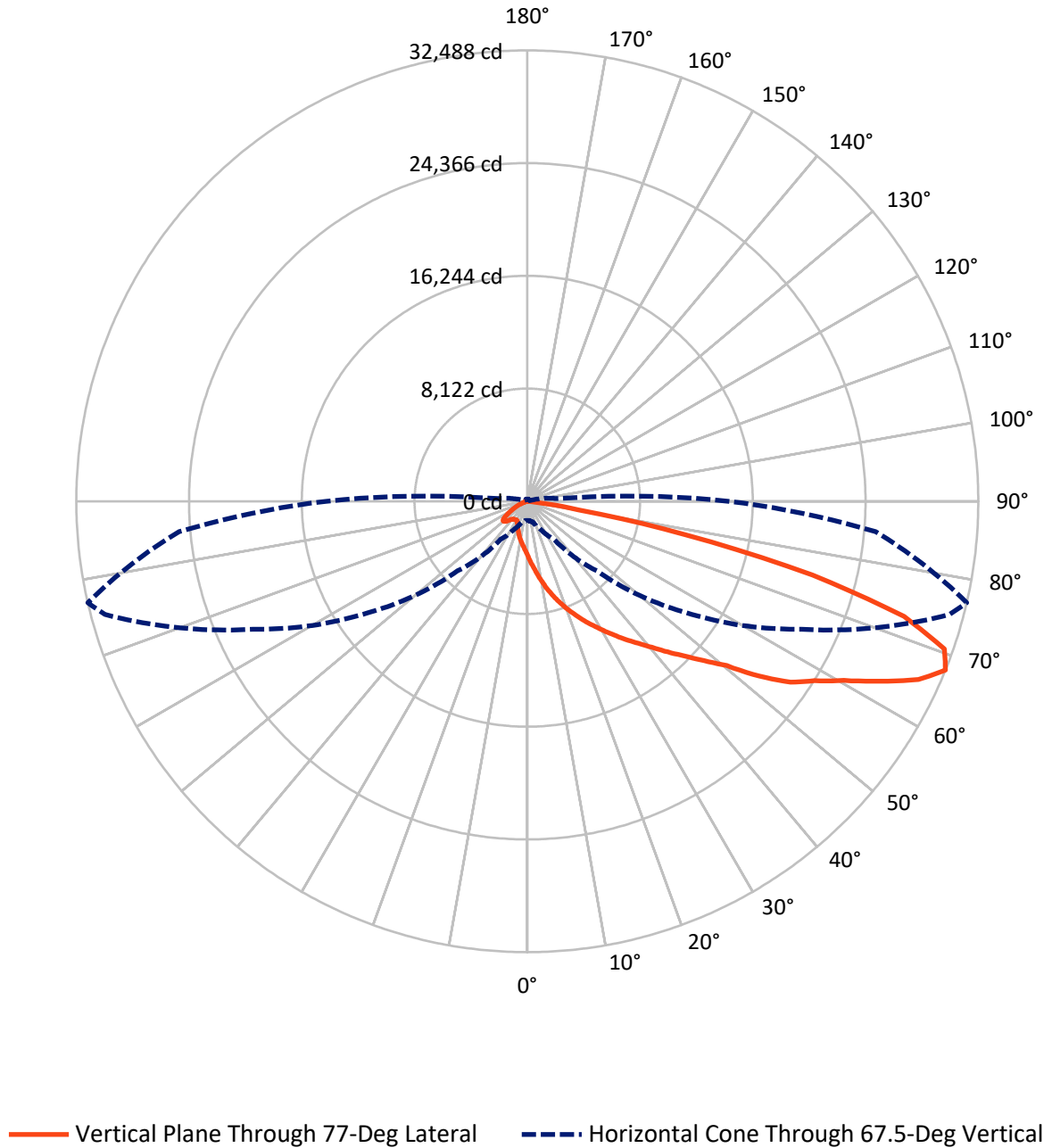
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	2493.1	0.0	2493.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	31393.9	0.0	31393.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	33887.0	0.0	33887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.8	1.2
10°-20°	1396.7	4.1
20°-30°	2695.2	8.0
30°-40°	4679.1	13.8
40°-50°	6793.8	20.0
50°-60°	7801.8	23.0
60°-70°	6773.4	20.0
70°-80°	3190.4	9.4
80°-90°	157.8	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°	33887.0	100.0
0°-180°	33887.0	100.0

Coefficient of Utilization



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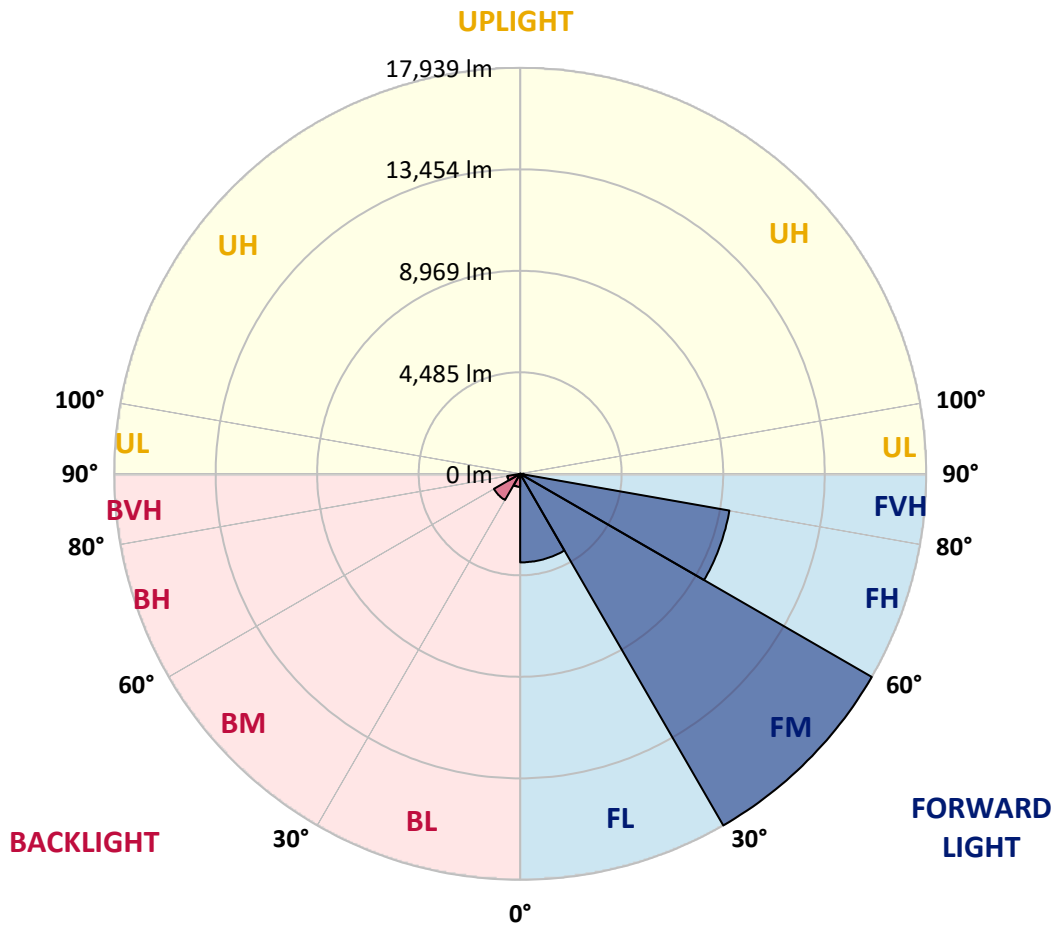
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3913.6	11.5			
FM (30°-60°)	17938.9	52.9			
FH (60°-80°)	9386.6	27.7			G4/12000
FVH (80°-90°)	154.9	0.5			G2/225
BL (0°-30°)	577.2	1.7	B2/1000		
BM (30°-60°)	1335.8	3.9	B2/2500		
BH (60°-80°)	577.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.9	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°	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7
2.5°	5410.1	5443.8	5395.4	5302.8	5163.9	5073.4	4852.5	4644.2	4412.7	4339.0
5°	6594.8	6624.3	6569.6	6468.6	6283.4	6106.7	5816.3	5380.7	4928.3	4783.1
7.5°	7472.3	7489.2	7468.1	7375.5	7198.8	6998.9	6674.8	6159.3	5488.0	5328.1
10°	8103.6	8158.3	8152.0	8116.3	7998.4	7836.4	7491.3	6904.2	6115.1	5908.9
12.5°	8522.4	8583.4	8619.2	8699.1	8692.8	8589.7	8286.7	7665.9	6740.0	6498.1
15°	8644.4	8709.7	8846.4	9031.6	9195.8	9248.4	9035.8	8413.0	7428.1	7118.8
17.5°	8575.0	8676.0	8840.1	9132.6	9492.5	9730.2	9707.1	9134.7	8053.1	7699.6
20°	8728.6	8825.4	8953.8	9200.0	9618.7	10050.1	10222.6	9824.9	8673.9	8303.5
22.5°	9578.7	9561.9	9574.5	9614.5	9864.9	10292.1	10647.7	10452.0	9288.3	8909.6
25°	10925.5	10849.7	10721.4	10504.6	10441.5	10647.7	11018.1	11007.5	9936.5	9530.3
27.5°	12470.0	12457.4	12156.5	11634.6	11340.0	11260.1	11436.8	11548.4	10578.3	10144.8
30°	13949.3	13983.0	13576.9	12996.1	12455.3	12141.8	11981.8	12061.8	11230.6	10807.6
32.5°	15237.2	15272.9	14831.0	14151.4	13482.2	13103.4	12766.7	12568.9	11941.9	11481.0
35°	16325.1	16360.9	15853.7	15102.5	14389.1	14046.1	13665.3	13124.5	12657.3	12228.0
37.5°	17297.3	17286.8	16607.1	15849.5	15148.8	14877.3	14677.4	13808.4	13393.8	12979.3
40°	17871.7	17915.9	17335.2	16499.7	15820.1	15622.3	15609.6	14656.4	14243.9	13842.0
42.5°	18040.1	18117.9	17697.1	17011.1	16394.5	16179.9	16510.3	15573.9	15233.0	14841.6
45°	17737.1	17812.8	17621.3	17145.8	16785.9	16647.0	17284.6	16525.0	16289.3	15902.1
47.5°	16853.3	16948.0	16994.3	16893.3	16889.0	17030.0	17979.1	17526.6	17543.5	17147.9
50°	15142.5	15302.4	15727.5	16085.2	16638.6	17333.0	18654.5	18612.5	18957.6	18616.7
52.5°	12032.3	12259.6	13724.2	14702.7	15946.3	17276.2	19397.4	20354.8	21438.5	20939.8
55°	9669.2	9669.2	10860.2	12691.0	14595.4	16901.7	19721.4	21486.9	23128.3	23010.4
57.5°	7882.7	7977.4	8737.0	10355.2	12640.5	16009.4	19921.3	22198.2	24489.7	24403.5
60°	4865.1	5069.2	6504.4	8101.5	10416.2	14420.7	19795.1	22917.8	26141.6	26211.1
62.5°	2739.8	2815.5	3455.2	5828.9	8099.4	12284.9	18829.2	23319.8	28254.3	28548.9
65°	1891.8	1929.6	2175.8	3627.8	5614.2	9780.7	16941.7	23069.3	30371.2	30966.8
67.5°	1374.1	1393.0	1546.7	2215.8	3331.1	7091.5	13983.0	21806.8	31492.8	32488.2
70°	1056.4	1069.0	1180.5	1456.2	1967.5	4376.9	10155.3	19296.4	30680.6	31869.5
72.5°	858.6	871.2	957.5	1077.4	1304.7	2588.3	6155.1	15670.7	27094.9	28378.5
75°	723.9	740.7	818.6	896.4	1022.7	1662.4	2887.1	10912.9	20375.9	21217.6
77.5°	401.9	370.4	665.0	742.8	862.8	1052.1	1351.0	6422.3	11411.6	11645.1
80°	250.4	258.8	528.2	597.6	662.9	530.3	618.7	2472.5	3956.1	3758.3
82.5°	14.7	33.7	406.1	431.4	454.5	227.3	233.6	839.6	953.2	875.4
85°	0.0	0.0	185.2	149.4	157.8	65.2	67.3	195.7	128.4	138.9
87.5°	0.0	0.0	0.0	4.2	0.0	6.3	12.6	16.8	6.3	8.4
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°
3907.7	0°	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7
4107.6	2.5°	3960.3	3813.0	3514.2	3221.7	2983.9	2762.9	2605.1	2455.7	2380.0	2375.7
4372.7	5°	4080.2	3770.9	3173.3	2645.1	2220.0	1879.1	1658.2	1500.4	1420.4	1393.0
4698.9	7.5°	4248.6	3783.5	2874.5	2140.1	1639.2	1346.7	1220.5	1170.0	1153.2	1134.2
5067.1	10°	4461.1	3813.0	2607.2	1723.4	1292.0	1144.7	1094.2	1073.2	1060.6	1047.9
5481.7	12.5°	4698.9	3840.3	2342.1	1430.9	1136.3	1060.6	1024.8	999.5	982.7	968.0
5906.7	15°	4930.4	3857.2	2066.4	1226.8	1056.4	995.3	957.5	930.1	906.9	890.1
6323.4	17.5°	5159.7	3880.3	1807.6	1104.8	991.1	930.1	892.2	858.6	839.6	820.7
6761.1	20°	5414.3	3876.1	1563.5	1018.5	925.9	864.9	824.9	793.3	774.4	753.3
7224.0	22.5°	5650.0	3855.1	1348.9	944.8	858.6	799.6	755.4	723.9	704.9	688.1
7697.5	25°	5921.5	3838.2	1170.0	877.5	795.4	736.5	688.1	658.6	637.6	622.9
8173.1	27.5°	6182.4	3813.0	1039.5	816.5	734.4	677.6	631.3	597.6	578.7	568.2
8663.4	30°	6439.1	3806.7	991.1	757.5	679.7	622.9	576.6	545.0	530.3	526.1
9202.1	32.5°	6748.5	3823.5	1012.2	736.5	629.2	572.4	528.2	505.0	490.3	490.3
9801.8	35°	7078.8	3819.3	1043.7	755.4	595.5	521.9	488.2	473.5	458.7	458.7
10466.7	37.5°	7493.4	3825.6	1069.0	787.0	582.9	479.8	460.8	441.9	433.5	433.5
11194.8	40°	8112.0	4033.9	1056.4	814.4	578.7	450.3	412.4	406.1	399.8	399.8
12017.6	42.5°	8869.6	4486.3	1073.2	816.5	576.6	429.3	378.8	391.4	376.7	374.6
12945.6	45°	9698.7	4980.9	1180.5	772.3	574.5	418.8	361.9	376.7	353.5	353.5
14020.9	47.5°	10521.5	5471.2	1289.9	709.1	568.2	416.6	347.2	338.8	332.5	334.6
15422.4	50°	11655.7	5871.0	1332.0	622.9	553.4	412.4	319.9	322.0	317.7	322.0
17398.3	52.5°	12890.9	5955.1	1281.5	526.1	511.3	399.8	300.9	309.3	307.2	311.4
18789.2	55°	13661.1	5864.7	1058.5	437.7	446.1	349.3	282.0	298.8	298.8	298.8
20148.6	57.5°	14456.5	5479.6	751.2	355.6	370.4	286.2	265.1	288.3	286.2	284.1
21785.7	60°	15028.8	4856.7	494.5	292.5	294.6	235.7	246.2	271.5	269.3	258.8
23473.4	62.5°	15456.0	4168.6	317.7	248.3	225.2	212.5	225.2	246.2	237.8	214.6
24904.3	65°	15407.6	3215.4	244.1	212.5	185.2	185.2	195.7	214.6	189.4	151.5
25177.8	67.5°	14509.1	2175.8	202.0	178.9	155.7	153.6	162.0	178.9	162.0	128.4
23776.4	70°	12903.5	1422.5	162.0	138.9	124.2	113.6	130.5	153.6	136.8	103.1
20241.2	72.5°	10473.1	867.0	122.0	101.0	90.5	73.7	103.1	126.3	109.4	75.8
14075.6	75°	6775.8	441.9	84.2	65.2	48.4	44.2	75.8	94.7	75.8	46.3
6245.5	77.5°	2592.5	185.2	46.3	29.5	25.3	21.0	42.1	56.8	31.6	10.5
1210.0	80°	498.7	77.9	23.1	14.7	12.6	8.4	6.3	4.2	0.0	0.0
214.6	82.5°	86.3	25.3	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
42.1	85°	29.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.7	87.5°	10.5	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

<u>180°</u>
3907.7
2371.5
1388.8
1130.0
1043.7
963.8
888.0
818.6
751.2
686.0
620.8
568.2
524.0
490.3
458.7
433.5
399.8
372.5
353.5
334.6
322.0
311.4
298.8
284.1
258.8
210.4
147.3
124.2
98.9
71.5
40.0
8.4
0.0
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0.0
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