

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: P949799

Luminaire Tested: **GALN-SB4B-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949799
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-SB4B-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 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: 13846 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

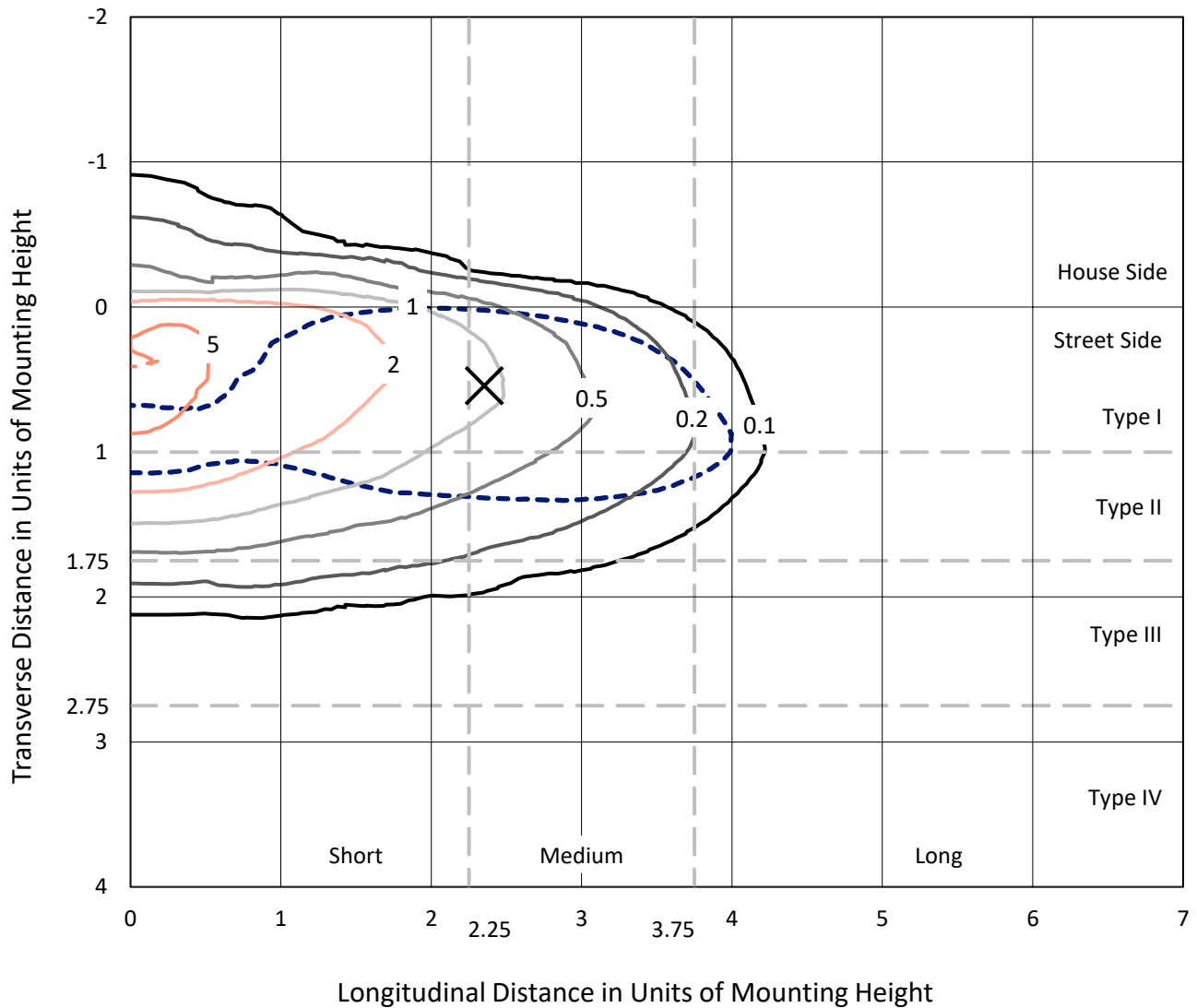
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

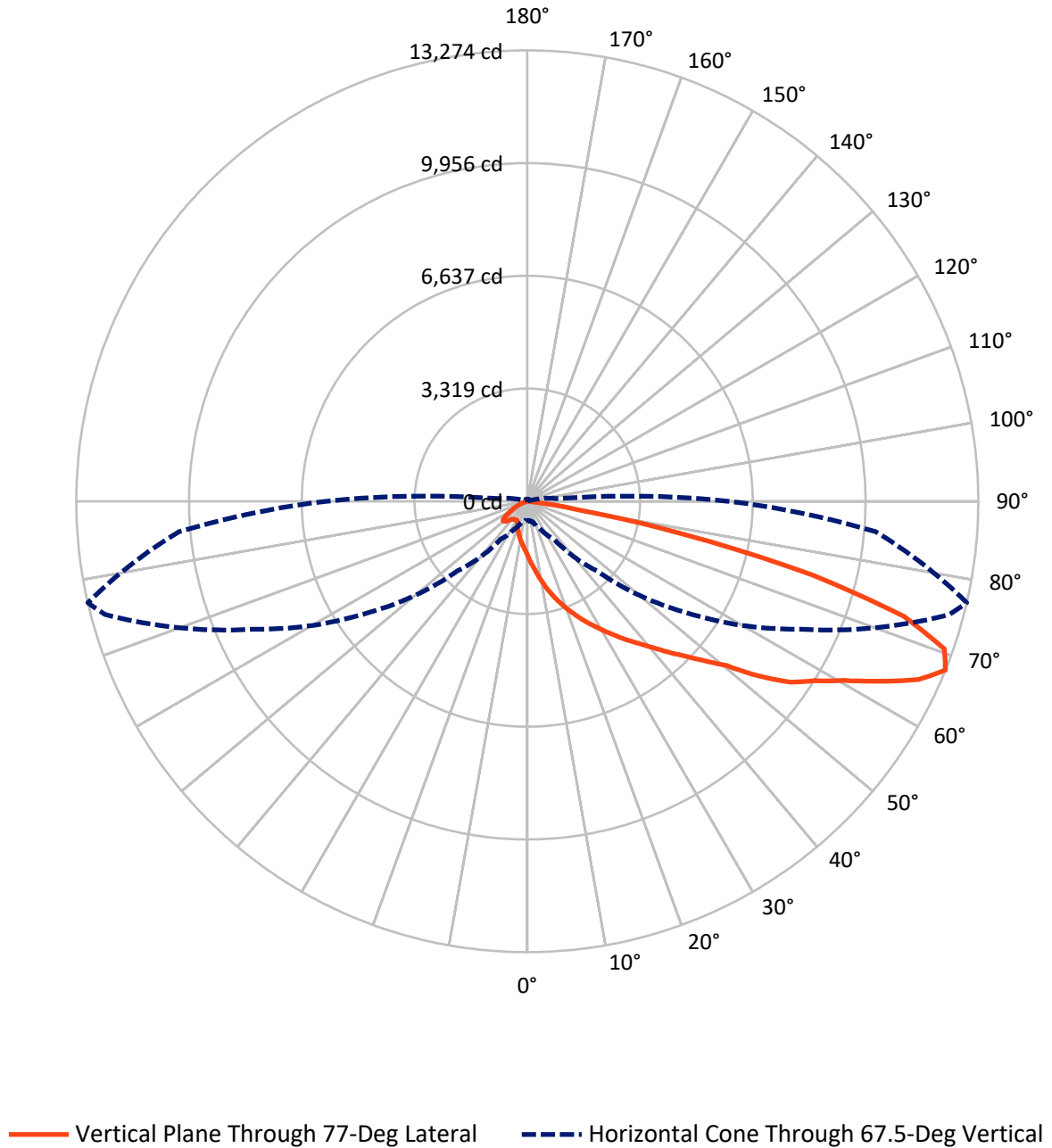
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	1018.7	0.0	1018.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	12827.3	0.0	12827.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	13846.0	0.0	13846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	1.2
10°-20°	570.7	4.1
20°-30°	1101.3	8.0
30°-40°	1911.8	13.8
40°-50°	2775.9	20.0
50°-60°	3187.8	23.0
60°-70°	2767.6	20.0
70°-80°	1303.6	9.4
80°-90°	64.5	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°	13846.0	100.0
0°-180°	13846.0	100.0

Coefficient of Utilization



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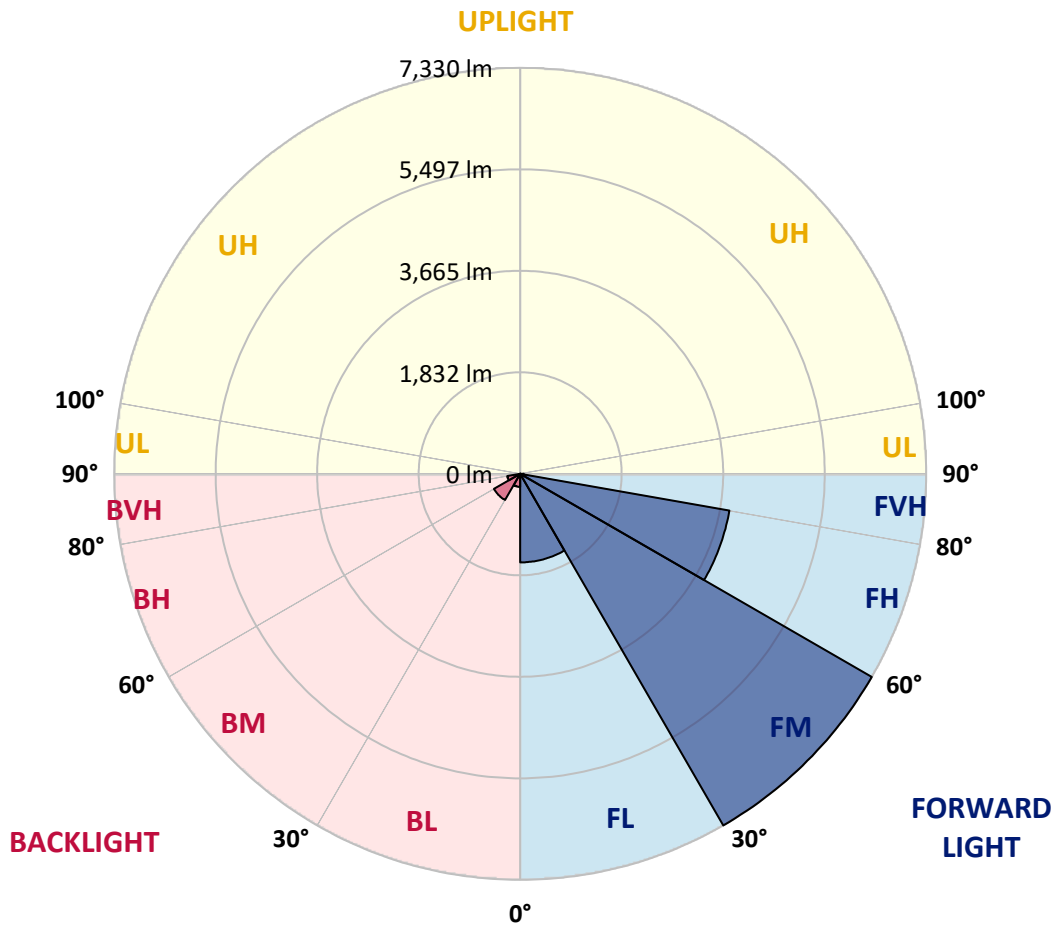
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1599.1	11.5			
FM (30°-60°)	7329.7	52.9			
FH (60°-80°)	3835.3	27.7			G2/5000
FVH (80°-90°)	63.3	0.5			G1/100
BL (0°-30°)	235.8	1.7	B1/500		
BM (30°-60°)	545.8	3.9	B1/1000		
BH (60°-80°)	235.8	1.7	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1596.6	1596.6	1596.6	1596.6	1596.6	1596.6	1596.6	1596.6	1596.6	1596.6
2.5°	2210.5	2224.3	2204.5	2166.7	2109.9	2073.0	1982.7	1897.6	1803.0	1772.9
5°	2694.6	2706.6	2684.3	2643.0	2567.4	2495.1	2376.5	2198.5	2013.6	1954.3
7.5°	3053.1	3060.0	3051.4	3013.6	2941.4	2859.7	2727.3	2516.6	2242.4	2177.0
10°	3311.1	3333.4	3330.9	3316.2	3268.1	3201.9	3060.9	2821.0	2498.6	2414.3
12.5°	3482.2	3507.1	3521.7	3554.4	3551.8	3509.7	3385.9	3132.2	2753.9	2655.1
15°	3532.1	3558.7	3614.6	3690.3	3757.3	3778.8	3692.0	3437.5	3035.1	2908.7
17.5°	3503.7	3545.0	3612.0	3731.5	3878.6	3975.7	3966.3	3732.4	3290.5	3146.0
20°	3566.4	3606.0	3658.4	3759.0	3930.1	4106.4	4176.9	4014.4	3544.1	3392.8
22.5°	3913.8	3906.9	3912.1	3928.4	4030.7	4205.3	4350.6	4270.6	3795.2	3640.4
25°	4464.1	4433.1	4380.7	4292.1	4266.3	4350.6	4501.9	4497.6	4060.0	3894.0
27.5°	5095.2	5090.0	4967.1	4753.8	4633.5	4600.8	4673.0	4718.6	4322.2	4145.1
30°	5699.6	5713.4	5547.4	5310.1	5089.2	4961.0	4895.7	4928.4	4588.7	4415.9
32.5°	6225.8	6240.4	6059.9	5782.2	5508.7	5354.0	5216.4	5135.6	4879.4	4691.1
35°	6670.3	6684.9	6477.7	6170.8	5879.3	5739.2	5583.5	5362.6	5171.7	4996.3
37.5°	7067.6	7063.3	6785.5	6476.0	6189.7	6078.8	5997.1	5642.0	5472.6	5303.2
40°	7302.3	7320.3	7083.0	6741.7	6464.0	6383.2	6378.0	5988.5	5820.0	5655.8
42.5°	7371.1	7402.9	7230.9	6950.6	6698.7	6611.0	6746.0	6363.4	6224.1	6064.2
45°	7247.2	7278.2	7200.0	7005.6	6858.6	6801.9	7062.4	6752.0	6655.7	6497.5
47.5°	6886.1	6924.8	6943.7	6902.5	6900.7	6958.4	7346.1	7161.3	7168.1	7006.5
50°	6187.1	6252.5	6426.1	6572.3	6798.4	7082.2	7622.1	7604.9	7745.9	7606.6
52.5°	4916.3	5009.2	5607.6	6007.4	6515.6	7059.0	7925.6	8316.8	8759.6	8555.9
55°	3950.8	3950.8	4437.4	5185.4	5963.6	6905.9	8058.0	8779.4	9450.1	9401.9
57.5°	3220.8	3259.5	3569.9	4231.1	5164.8	6541.4	8139.7	9070.0	10006.3	9971.1
60°	1987.9	2071.3	2657.6	3310.2	4256.0	5892.2	8088.1	9364.1	10681.3	10709.7
62.5°	1119.5	1150.4	1411.8	2381.6	3309.4	5019.5	7693.5	9528.3	11544.5	11664.9
65°	773.0	788.4	889.0	1482.3	2293.9	3996.3	6922.2	9426.0	12409.5	12652.8
67.5°	561.4	569.2	632.0	905.4	1361.1	2897.5	5713.4	8910.1	12867.8	13274.4
70°	431.6	436.8	482.3	595.0	803.9	1788.4	4149.4	7884.4	12535.9	13021.7
72.5°	350.8	356.0	391.2	440.2	533.1	1057.6	2514.9	6402.9	11070.8	11595.3
75°	295.8	302.6	334.5	366.3	417.9	679.2	1179.6	4458.9	8325.4	8669.4
77.5°	164.2	151.3	271.7	303.5	352.5	429.9	552.0	2624.1	4662.7	4758.1
80°	102.3	105.8	215.8	244.2	270.8	216.7	252.8	1010.3	1616.4	1535.6
82.5°	6.0	13.8	165.9	176.3	185.7	92.9	95.4	343.1	389.5	357.7
85°	0.0	0.0	75.7	61.0	64.5	26.7	27.5	80.0	52.4	56.7
87.5°	0.0	0.0	0.0	1.7	0.0	2.6	5.2	6.9	2.6	3.4
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°
1596.6	0°	1596.6	1596.6	1596.6	1596.6	1596.6	1596.6	1596.6	1596.6	1596.6	1596.6
1678.3	2.5°	1618.1	1558.0	1435.9	1316.4	1219.2	1128.9	1064.4	1003.4	972.4	970.7
1786.7	5°	1667.2	1540.8	1296.6	1080.8	907.1	767.8	677.5	613.0	580.4	569.2
1919.9	7.5°	1735.9	1545.9	1174.5	874.4	669.8	550.3	498.7	478.0	471.2	463.4
2070.4	10°	1822.8	1558.0	1065.3	704.2	527.9	467.7	447.1	438.5	433.3	428.2
2239.8	12.5°	1919.9	1569.1	957.0	584.7	464.3	433.3	418.7	408.4	401.5	395.5
2413.5	15°	2014.5	1576.0	844.3	501.3	431.6	406.7	391.2	380.0	370.6	363.7
2583.7	17.5°	2108.2	1585.5	738.6	451.4	405.0	380.0	364.6	350.8	343.1	335.3
2762.5	20°	2212.3	1583.8	638.8	416.1	378.3	353.4	337.0	324.1	316.4	307.8
2951.7	22.5°	2308.6	1575.2	551.1	386.0	350.8	326.7	308.7	295.8	288.0	281.2
3145.1	25°	2419.5	1568.3	478.0	358.5	325.0	300.9	281.2	269.1	260.5	254.5
3339.5	27.5°	2526.1	1558.0	424.7	333.6	300.1	276.9	257.9	244.2	236.4	232.1
3539.8	30°	2631.0	1555.4	405.0	309.5	277.7	254.5	235.6	222.7	216.7	214.9
3759.9	32.5°	2757.4	1562.3	413.6	300.9	257.1	233.9	215.8	206.4	200.3	200.3
4004.9	35°	2892.4	1560.5	426.5	308.7	243.3	213.2	199.5	193.5	187.4	187.4
4276.6	37.5°	3061.7	1563.1	436.8	321.6	238.2	196.0	188.3	180.6	177.1	177.1
4574.1	40°	3314.5	1648.2	431.6	332.7	236.4	184.0	168.5	165.9	163.4	163.4
4910.3	42.5°	3624.1	1833.1	438.5	333.6	235.6	175.4	154.8	159.9	153.9	153.0
5289.5	45°	3962.8	2035.1	482.3	315.5	234.7	171.1	147.9	153.9	144.4	144.4
5728.8	47.5°	4299.0	2235.5	527.1	289.8	232.1	170.2	141.9	138.4	135.8	136.7
6301.5	50°	4762.4	2398.8	544.3	254.5	226.1	168.5	130.7	131.5	129.8	131.5
7108.8	52.5°	5267.1	2433.2	523.6	214.9	208.9	163.4	123.0	126.4	125.5	127.3
7677.1	55°	5581.8	2396.3	432.5	178.8	182.3	142.7	115.2	122.1	122.1	122.1
8232.6	57.5°	5906.8	2238.9	306.9	145.3	151.3	116.9	108.3	117.8	116.9	116.1
8901.5	60°	6140.7	1984.4	202.1	119.5	120.4	96.3	100.6	110.9	110.1	105.8
9591.1	62.5°	6315.2	1703.3	129.8	101.5	92.0	86.8	92.0	100.6	97.2	87.7
10175.7	65°	6295.5	1313.8	99.7	86.8	75.7	75.7	80.0	87.7	77.4	61.9
10287.5	67.5°	5928.3	889.0	82.5	73.1	63.6	62.8	66.2	73.1	66.2	52.4
9714.9	70°	5272.3	581.2	66.2	56.7	50.7	46.4	53.3	62.8	55.9	42.1
8270.4	72.5°	4279.2	354.2	49.9	41.3	37.0	30.1	42.1	51.6	44.7	31.0
5751.2	75°	2768.6	180.6	34.4	26.7	19.8	18.1	31.0	38.7	31.0	18.9
2551.9	77.5°	1059.3	75.7	18.9	12.0	10.3	8.6	17.2	23.2	12.9	4.3
494.4	80°	203.8	31.8	9.5	6.0	5.2	3.4	2.6	1.7	0.0	0.0
87.7	82.5°	35.3	10.3	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
17.2	85°	12.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.0	87.5°	4.3	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

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180°
1596.6
969.0
567.5
461.7
426.5
393.8
362.8
334.5
306.9
280.3
253.6
232.1
214.1
200.3
187.4
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