

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: P951819

Luminaire Tested: **GALN-SB5D-835-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

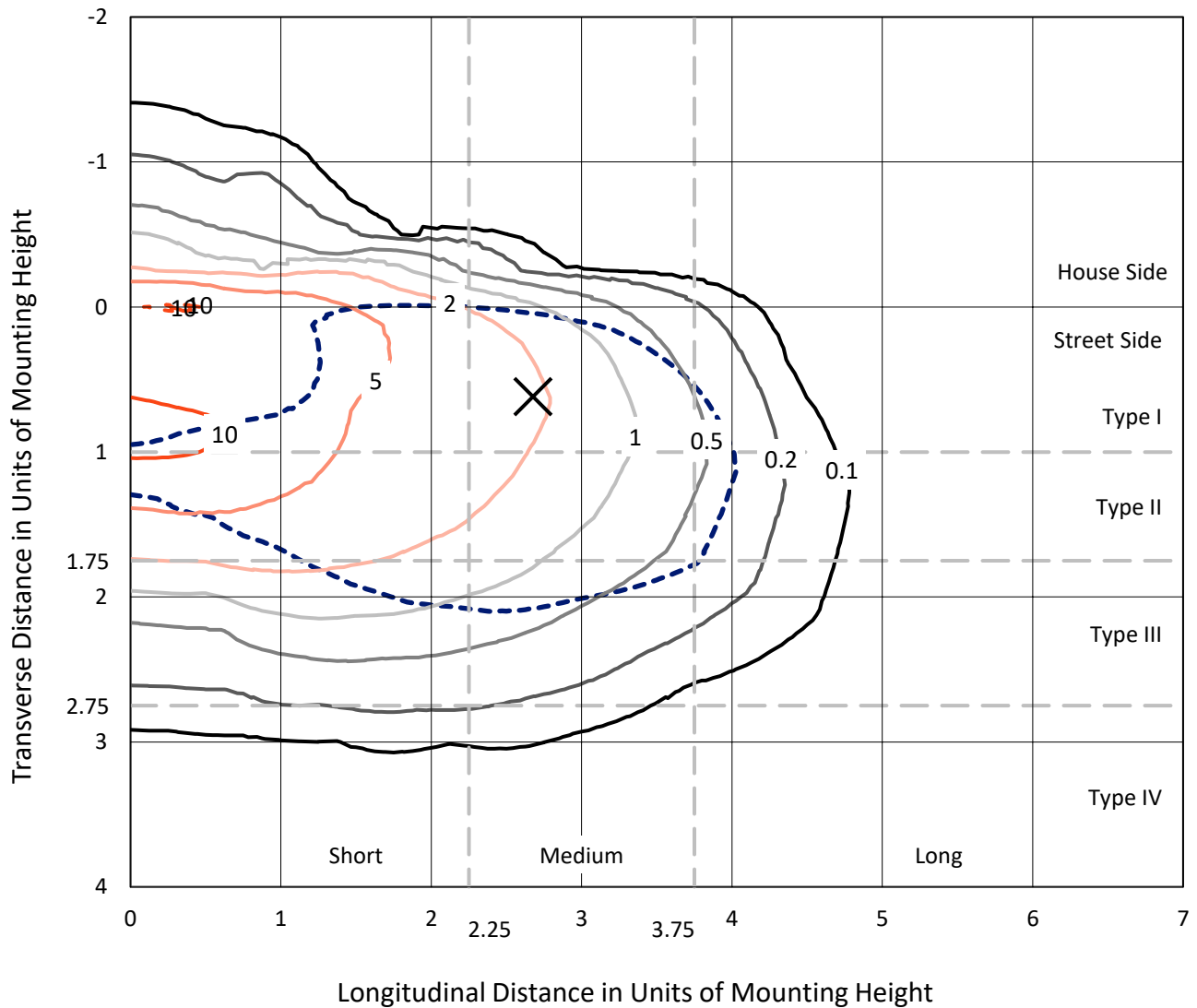
Lumens per Lamp: N/A  
Luminaire Lumens: 39694 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): 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

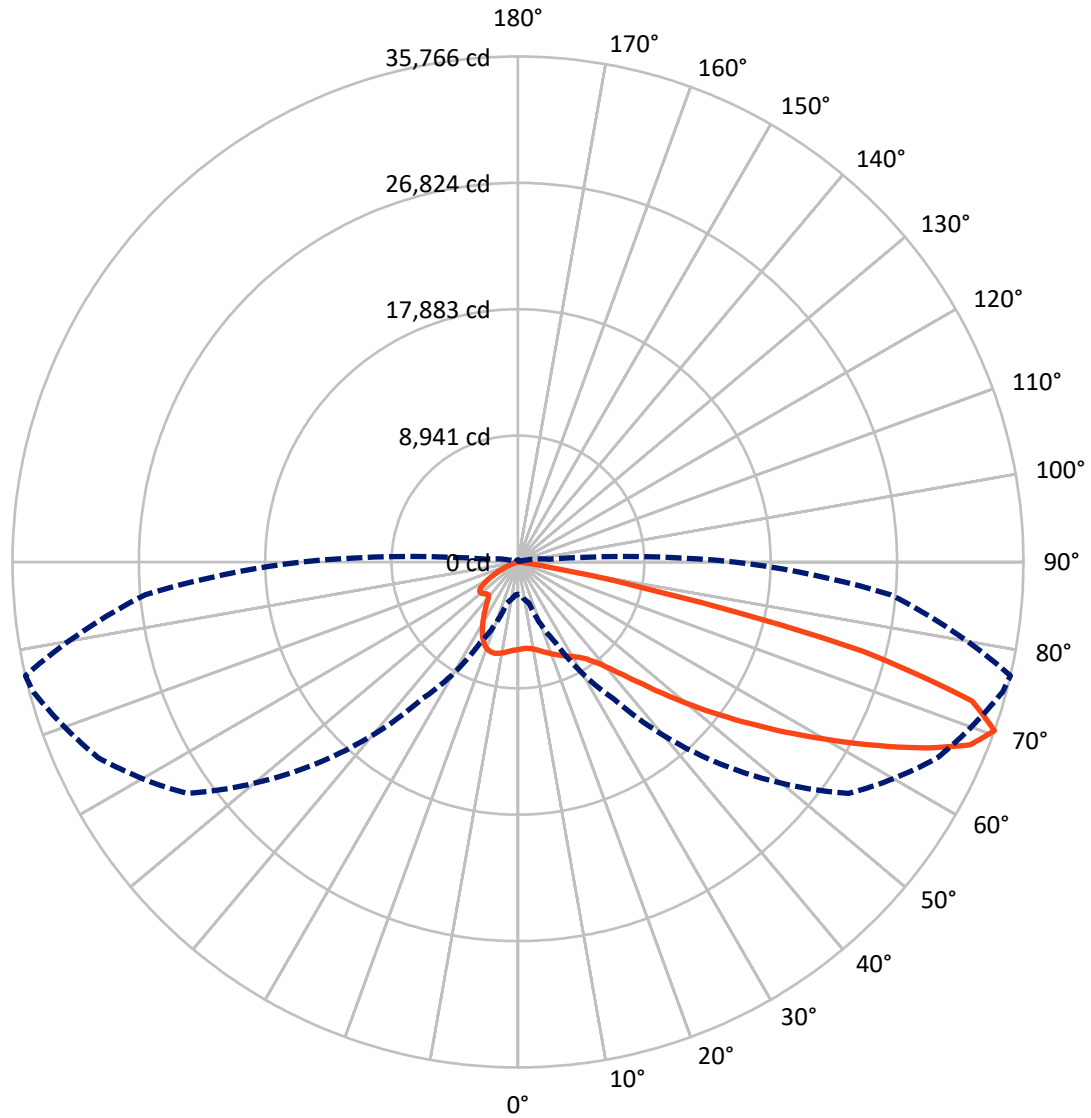
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P951819  
CATALOG NUMBER: GALN-SB5D-835-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4184.3	0.0	4184.3
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	35509.7	0.0	35509.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	39694.0	0.0	39694.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	533.6	1.3
10°-20°	1266.7	3.2
20°-30°	1959.3	4.9
30°-40°	3555.2	9.0
40°-50°	6710.9	16.9
50°-60°	9696.7	24.4
60°-70°	10321.9	26.0
70°-80°	5469.9	13.8
80°-90°	179.6	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°	39694.0	100.0
0°-180°	39694.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P951819

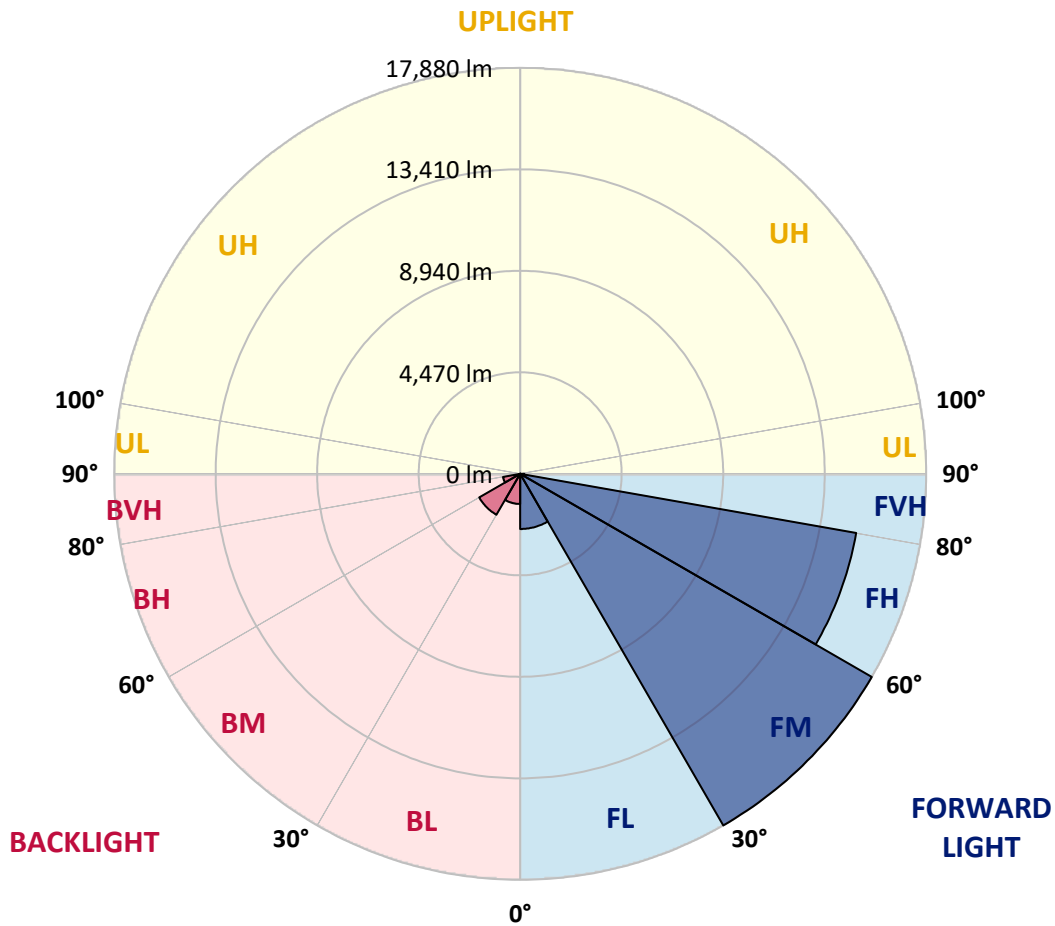
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2430.2	6.1			
FM (30°-60°)	17880.0	45.0			
FH (60°-80°)	15024.7	37.9			G5
FVH (80°-90°)	174.8	0.4			G2/225
BL (0°-30°)	1329.4	3.3	B3/2500		
BM (30°-60°)	2083.0	5.2	B2/2500		
BH (60°-80°)	767.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium



REPORT NUMBER: P951819  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5
2.5°	5813.0	5865.7	5858.2	5893.2	5905.8	5955.9	6006.1	6073.7	6148.9	6146.4
5°	5484.7	5537.3	5549.8	5597.5	5657.6	5735.3	5838.1	5973.5	6113.8	6136.4
7.5°	5096.1	5151.3	5183.9	5279.1	5389.4	5549.8	5717.8	5915.8	6148.9	6181.5
10°	4707.6	4757.7	4800.3	4935.7	5111.2	5349.3	5622.5	5908.3	6221.6	6269.3
12.5°	4466.9	4514.6	4562.2	4680.0	4898.1	5188.9	5559.9	5943.4	6341.9	6409.6
15°	4381.7	4424.3	4461.9	4567.2	4770.2	5101.1	5547.3	6016.1	6494.9	6585.1
17.5°	4394.2	4416.8	4441.9	4522.1	4720.1	5061.0	5569.9	6141.4	6675.3	6755.6
20°	4466.9	4479.5	4482.0	4537.1	4712.6	5056.0	5615.0	6261.7	6845.8	6953.6
22.5°	4559.7	4564.7	4559.7	4597.3	4760.2	5093.6	5675.2	6407.1	7036.3	7136.6
25°	4993.3	4898.1	4777.8	4705.1	4840.4	5166.3	5765.4	6602.6	7244.4	7342.1
27.5°	6339.4	6066.2	5635.1	5151.3	5005.9	5271.6	5890.7	6800.7	7454.9	7542.7
30°	8525.3	8166.8	7434.9	6344.5	5537.3	5492.2	6053.7	6998.7	7678.0	7773.3
32.5°	10716.1	10628.4	9783.6	8274.6	6733.0	5983.5	6324.4	7266.9	7973.8	8049.0
35°	12932.1	12754.1	12062.2	10570.8	8575.4	6983.7	6775.6	7617.9	8362.3	8447.6
37.5°	14629.1	14521.3	14092.7	12864.4	10761.3	8527.8	7547.7	8161.8	8926.4	9021.6
40°	16128.1	16078.0	15932.6	15122.9	13205.3	10548.2	8748.4	9004.1	9708.4	9821.2
42.5°	17306.3	17424.1	17506.8	17281.2	15724.5	12854.4	10362.7	10187.2	10798.9	10914.2
45°	18512.0	18552.1	18885.5	19211.3	18226.2	15265.8	12182.6	11573.4	12155.0	12297.9
47.5°	19286.5	19447.0	20033.5	20607.6	20329.3	17657.2	14137.8	13210.3	13726.7	13994.9
50°	19344.2	19647.5	20454.7	21454.8	21860.9	19933.3	16263.5	15075.3	15624.3	15920.0
52.5°	18384.1	18855.4	20106.2	21570.1	22688.1	21860.9	18461.8	16940.3	17644.7	18030.7
55°	14095.2	14711.8	18795.2	20943.5	22720.7	23322.3	20602.6	18883.0	19895.7	20331.8
57.5°	12280.3	12591.2	14777.0	19855.6	22116.6	23911.4	22537.7	20732.9	22344.7	22886.2
60°	10217.3	10625.9	12393.1	18075.8	21296.9	23969.1	24247.3	23119.3	24999.3	25608.4
62.5°	6943.6	7387.2	9144.4	15017.6	20176.4	23941.5	25648.5	25575.9	27949.7	28603.9
65°	4301.5	4579.7	5737.8	12262.8	18609.7	23971.6	27115.0	28558.8	31063.0	31727.3
67.5°	3399.1	3526.9	4131.0	9415.2	15910.0	23294.8	28578.9	31363.8	33993.3	34519.8
70°	2283.6	2361.3	3005.5	6311.9	11836.6	20171.4	28551.3	32772.6	35502.4	35765.6
72.5°	1203.2	1263.4	1757.2	2922.8	7149.1	14338.3	24066.8	31088.1	34000.9	33604.8
75°	601.6	701.9	1183.2	1484.0	3053.2	7996.4	14944.9	24510.5	26761.5	25227.4
77.5°	456.2	551.5	977.6	977.6	1062.8	2692.2	6329.4	13368.2	12330.5	10267.4
80°	290.8	376.0	854.8	739.5	443.7	684.3	1649.4	3745.0	2619.5	1992.8
82.5°	170.5	245.7	711.9	488.8	248.2	253.2	466.2	797.1	679.3	528.9
85°	67.7	160.4	488.8	193.0	97.8	62.7	140.4	170.5	140.4	105.3
87.5°	0.0	37.6	85.2	0.0	7.5	5.0	10.0	12.5	12.5	10.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951819  
 CATALOG NUMBER: GALN-SB5D-835-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6191.5	0°	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5
6196.6	2.5°	6219.1	6224.1	6239.2	6241.7	6206.6	6161.5	6143.9	6136.4	6106.3	6103.8
6236.7	5°	6294.3	6316.9	6294.3	6229.1	6073.7	5855.6	5690.2	5554.8	5432.0	5394.4
6374.5	7.5°	6444.7	6467.3	6399.6	6143.9	5752.9	5319.2	4928.2	4652.4	4404.3	4311.5
6542.5	10°	6660.3	6690.4	6477.3	5960.9	5269.1	4572.2	3910.5	3444.2	3080.7	2932.8
6770.6	12.5°	6931.0	6943.6	6519.9	5682.7	4639.9	3644.7	2707.2	2208.4	1885.0	1764.7
7046.3	15°	7229.3	7211.8	6524.9	5304.2	3782.6	2576.9	1767.2	1451.4	1321.0	1280.9
7322.1	17.5°	7542.7	7470.0	6424.7	4757.7	2842.6	1762.2	1311.0	1235.8	1213.2	1203.2
7595.3	20°	7851.0	7688.0	6241.7	4043.3	2040.5	1316.0	1190.7	1168.1	1155.6	1150.6
7871.0	22.5°	8131.7	7853.5	5928.3	3213.6	1481.5	1163.1	1125.5	1105.5	1082.9	1072.9
8139.3	25°	8405.0	7948.7	5487.2	2439.0	1185.7	1087.9	1057.8	1020.2	990.1	977.6
8427.5	27.5°	8670.7	8008.9	4935.7	1804.8	1057.8	1017.7	962.6	909.9	887.4	882.4
8735.8	30°	8953.9	8029.0	4309.0	1346.1	980.1	930.0	849.8	789.6	777.1	779.6
9152.0	32.5°	9299.9	8059.0	3677.3	1102.9	914.9	824.7	729.4	666.8	656.8	666.8
9758.6	35°	9713.5	8119.2	3068.2	1015.2	857.3	716.9	614.1	561.5	551.5	559.0
10535.7	37.5°	10275.0	8217.0	2499.2	997.7	809.7	626.7	516.4	473.8	473.8	476.3
11488.2	40°	11022.0	8477.7	1990.3	985.1	784.6	559.0	436.2	418.6	426.1	431.2
12701.4	42.5°	11931.9	9031.6	1646.9	970.1	757.0	528.9	396.1	388.5	401.1	406.1
14155.3	45°	12952.1	9733.5	1526.6	945.0	732.0	549.0	378.5	368.5	383.5	386.0
15784.7	47.5°	14007.4	10420.3	1511.5	917.5	706.9	579.0	373.5	350.9	368.5	371.0
17524.3	50°	15075.3	10869.0	1526.6	874.8	666.8	579.0	376.0	333.4	348.4	356.0
19329.2	52.5°	16150.7	11074.6	1516.6	782.1	596.6	544.0	376.0	318.4	333.4	338.4
21279.4	55°	17193.5	11034.5	1363.6	644.2	506.4	481.3	366.0	305.8	315.8	318.4
23121.8	57.5°	18018.2	10475.5	1080.4	501.3	411.1	401.1	333.4	290.8	298.3	295.8
24811.3	60°	18449.3	9247.2	772.1	386.0	323.4	315.8	293.3	270.7	275.7	263.2
26242.6	62.5°	18454.3	7622.9	516.4	305.8	258.2	250.7	250.7	243.1	238.1	213.1
27350.6	65°	18060.8	5820.6	343.4	243.1	208.1	195.5	210.6	208.1	190.5	155.4
27689.0	67.5°	17168.4	3815.2	260.7	190.5	160.4	152.9	167.9	175.5	162.9	130.3
26455.7	70°	15333.5	2220.9	215.6	147.9	120.3	112.8	135.4	150.4	135.4	105.3
22612.9	72.5°	12736.5	1198.2	175.5	110.3	82.7	75.2	107.8	122.8	107.8	77.7
14508.8	75°	8264.6	641.7	135.4	72.7	42.6	47.6	80.2	90.2	75.2	50.1
4258.9	77.5°	2774.9	283.3	85.2	35.1	20.1	20.1	47.6	55.1	35.1	17.5
774.6	80°	619.2	117.8	35.1	15.0	7.5	7.5	10.0	10.0	5.0	0.0
238.1	82.5°	203.0	47.6	15.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
60.2	85°	77.7	17.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.1	87.5°	30.1	2.5	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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<u>180°</u>
6191.5
6108.8
5371.9
4273.9
2870.2
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1280.9
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1145.6
1070.4
972.6
877.3
779.6
664.3
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473.8
431.2
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388.5
373.5
358.5
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