

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: STREETWORKS

Report Number: G3-2106-280-22

Luminaire Tested: **SDL-PA1-20-AMB-U-5WQ-A**

Test Date: 6/25/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-22
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/25/2021
Issue Date: 6/25/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-20-AMB-U-5WQ-A
Description: SDL. (1) AMBER 500MA LIGHT ENGINE WITH 24 LEDS EACH AND TYPE V WIDE OPTICS.
Light Source: (24) CREE AMBER LEDS
GW CSSRM3.PM-N6N8-A535-1. CREE
Ballast/Driver: (1) ADVANCE ELECT DRIVER AT 500 mA
XI100C150V091BSY1

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1213 lumens
Efficiency: N/A
Efficacy: 38.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type V - Short
BUG Rating: B1 - U2 - G1

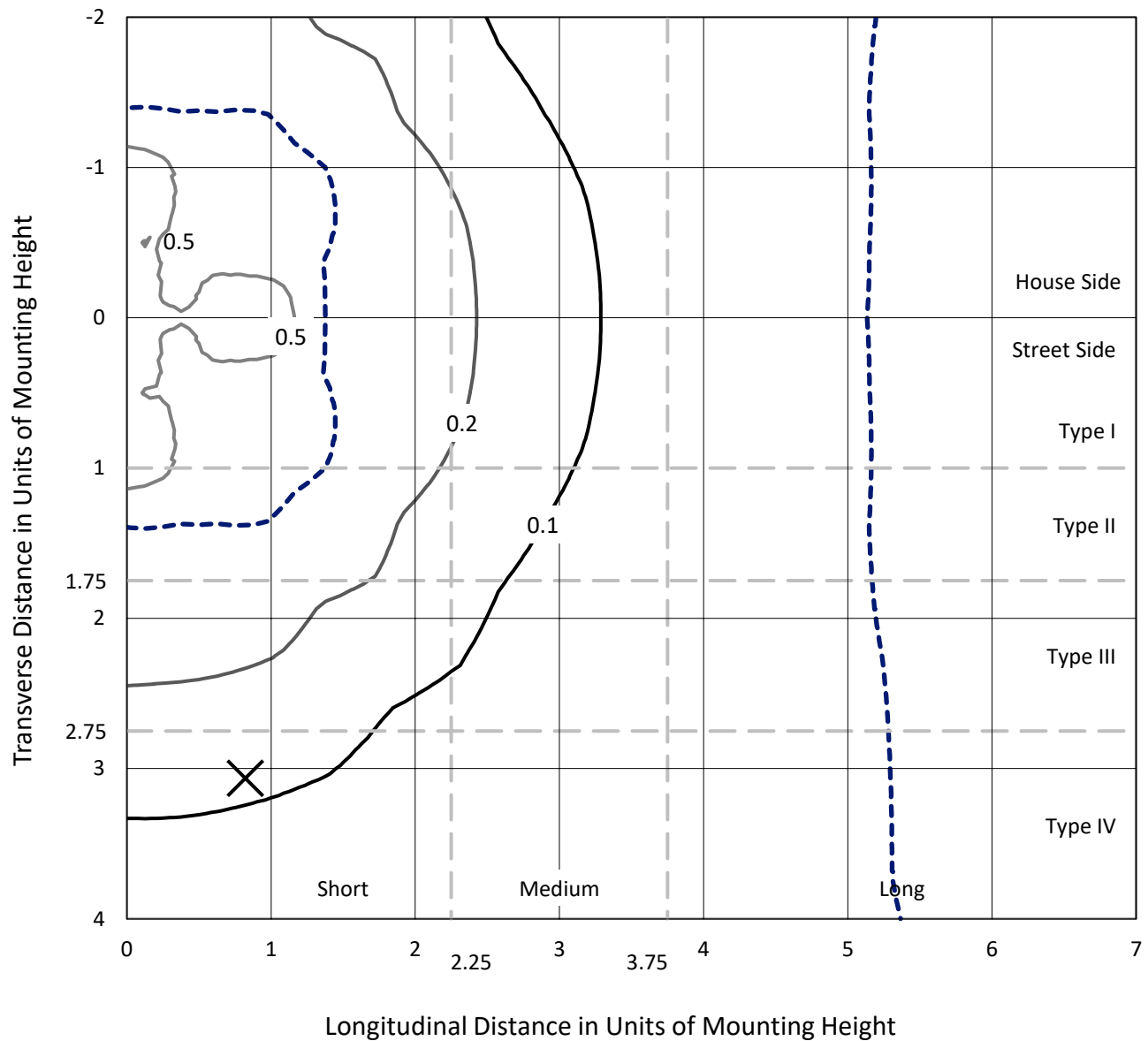
Input Watts (W): 31.4
Input Voltage (V): 120.0
Input Current (Ain): 0.267
Voltage Rise (V): NR
Power Factor: 0.9809
Total Harmonic Distortion (THDi): 17.6%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.2
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

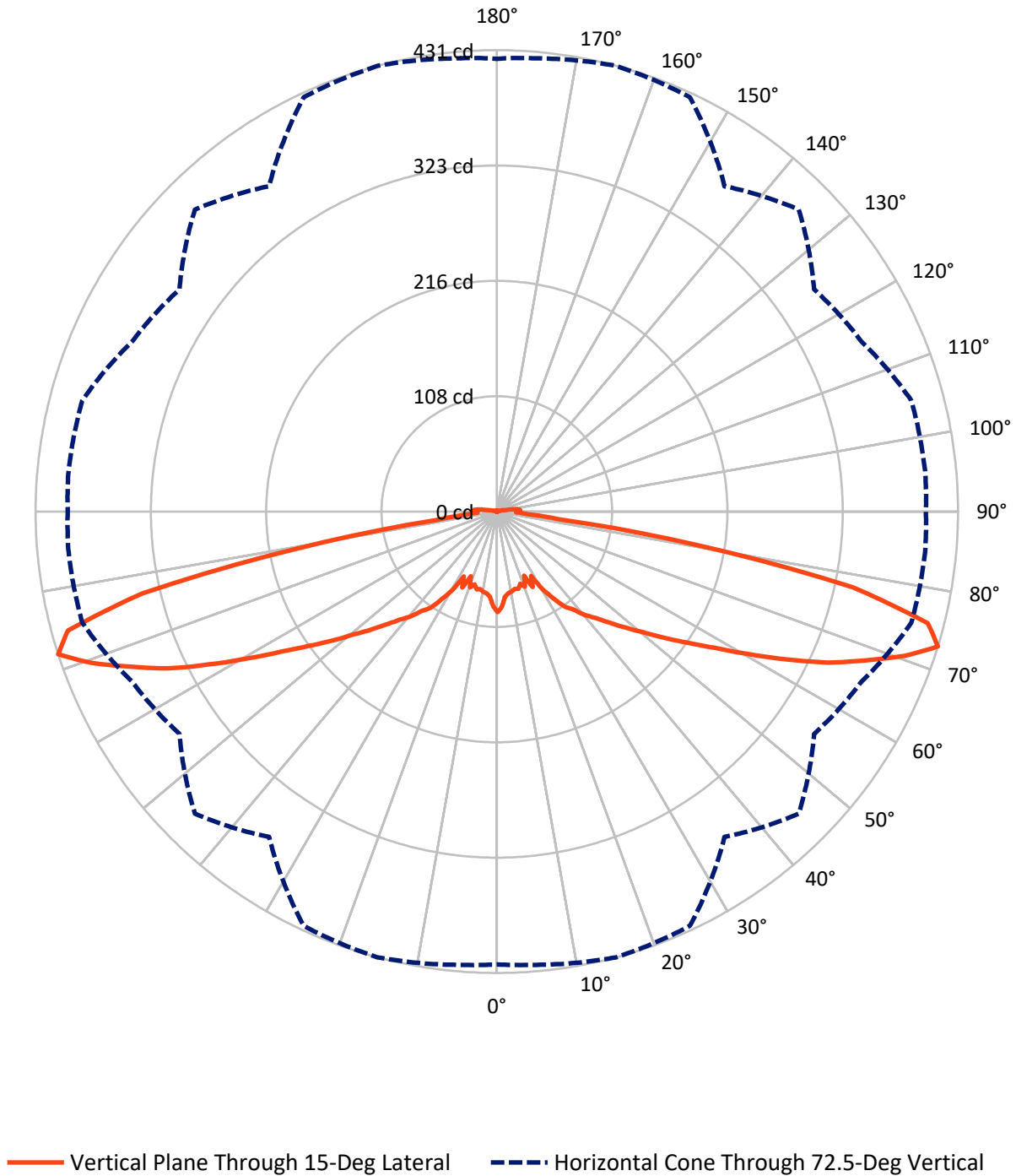
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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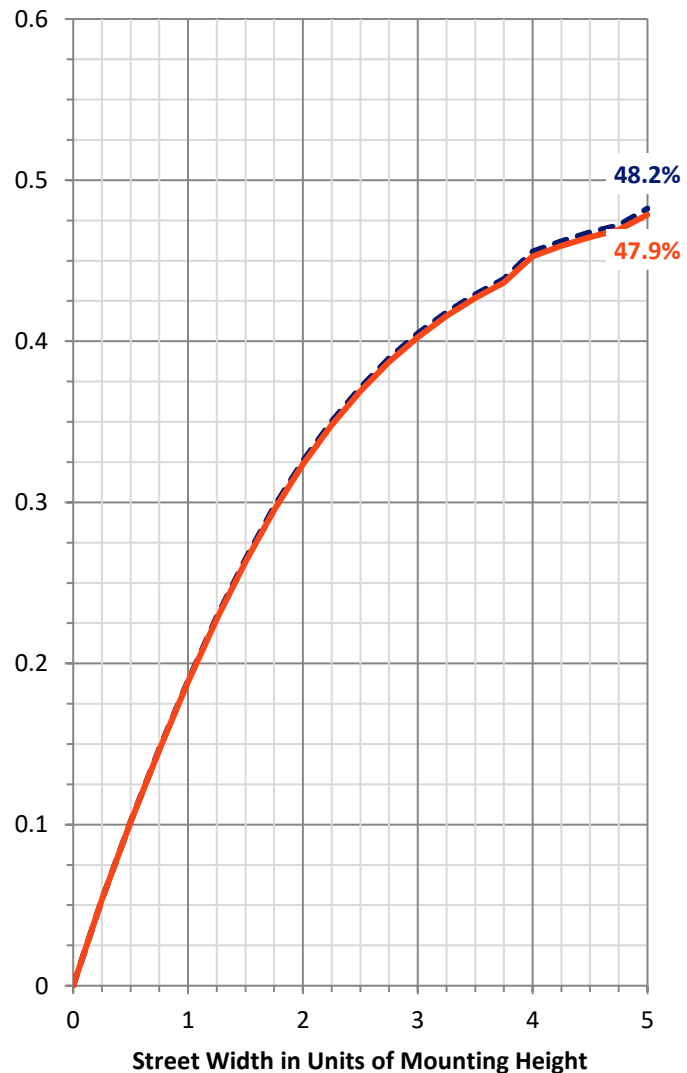
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	590.1	16.4	606.5
	% Fixture	48.6	1.4	50.0
Street Side	Lumens	590.1	16.4	606.5
	% Fixture	48.6	1.4	50.0
Total	Lumens	1180.2	32.8	1213.0
	% Fixture	97.3	2.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.6
10°-20°	17.8	1.5
20°-30°	31.1	2.6
30°-40°	59.7	4.9
40°-50°	102.5	8.5
50°-60°	179.4	14.8
60°-70°	319.5	26.3
70°-80°	383.9	31.7
80°-90°	78.6	6.5
90°-100°	26.1	2.2
100°-110°	5.2	0.4
110°-120°	0.7	0.1
120°-130°	0.6	0.0
130°-140°	0.2	0.0
140°-150°	0.0	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1180.2	97.3
0°-180°	1213.0	100.0



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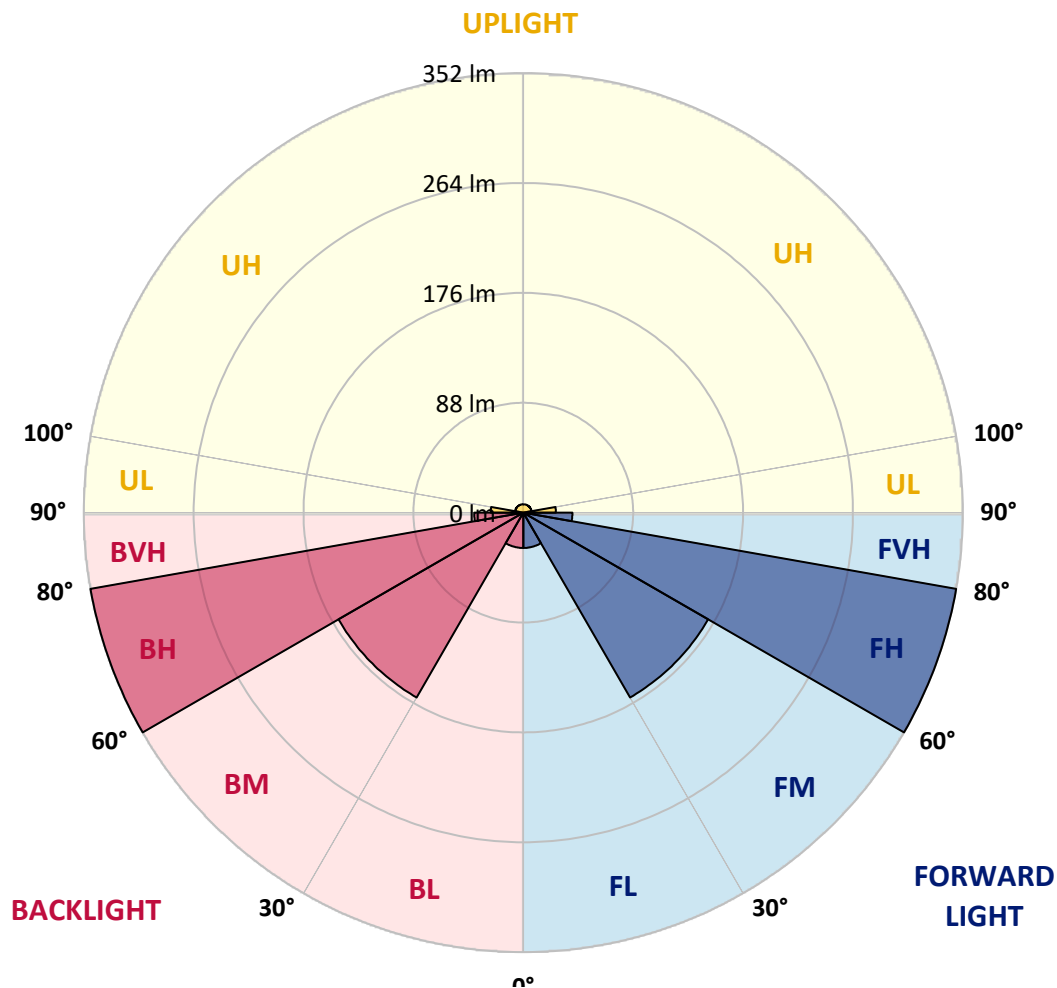
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	28.3	2.3			
FM	(30°-60°)	170.8	14.1			
FH	(60°-80°)	351.7	29.0			G0/660
FVH	(80°-90°)	39.3	3.2			G1/100
BL	(0°-30°)	28.3	2.3	B0/110		
BM	(30°-60°)	170.8	14.1	B0/220		
BH	(60°-80°)	351.7	29.0	B1/500		G0/660
BVH	(80°-90°)	39.3	3.2			G1/100
UL	(90°-100°)	26.1	2.2		U2/50	
UH	(100°-180°)	6.7	0.6		U1/10	

BUG Rating: B1-U2-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	94	94	94	94	94	94	94	94	94	94	94
2.5°	88	88	89	91	92	93	94	94	94	94	94
5°	81	81	80	80	81	81	83	90	93	93	93
7.5°	75	74	77	78	79	79	79	78	85	82	82
10°	77	76	76	75	71	73	62	62	64	72	72
12.5°	72	70	74	75	70	60	57	59	56	63	63
15°	77	76	75	70	57	60	51	55	59	68	68
17.5°	67	66	71	68	61	46	56	51	52	52	51
20°	78	77	75	59	60	61	55	50	60	68	69
22.5°	67	66	65	68	61	60	56	59	48	51	52
25°	80	80	78	65	66	57	61	54	67	73	72
27.5°	77	75	68	70	64	66	58	63	72	86	89
30°	87	86	84	74	67	63	65	79	92	102	102
32.5°	106	105	96	81	72	75	72	85	97	107	107
35°	113	112	109	92	76	80	78	89	103	112	112
37.5°	122	120	116	98	84	88	82	96	110	118	118
40°	131	129	127	108	90	93	87	104	117	127	128
42.5°	141	141	136	117	101	102	93	113	129	138	138
45°	154	152	148	131	110	110	103	122	141	151	153
47.5°	166	166	162	146	123	123	113	136	161	168	168
50°	183	181	177	160	136	135	127	147	179	183	186
52.5°	200	199	196	178	151	153	143	163	197	202	202
55°	219	216	216	199	170	174	163	182	218	222	223
57.5°	247	242	240	225	193	200	187	207	242	244	246
60°	275	272	270	256	226	231	219	241	270	273	273
62.5°	302	302	304	297	265	272	258	279	302	299	299
65°	333	334	340	338	301	324	296	318	334	328	329
67.5°	366	364	371	376	334	364	331	350	363	361	361
70°	399	397	404	405	358	388	355	370	386	382	381
72.5°	423	425	431	427	371	399	362	376	401	402	401
75°	413	421	416	424	367	397	349	378	411	419	419
77.5°	325	331	340	371	340	383	331	352	365	354	356
80°	159	166	191	245	280	350	290	229	164	129	117
82.5°	41	48	58	92	173	264	136	68	48	40	37
85°	25	26	28	35	44	69	52	31	28	28	27
87.5°	23	23	18	21	27	31	27	18	18	22	21
90°	25	25	20	23	30	33	29	20	20	24	23
92.5°	26	27	22	24	33	34	32	21	22	26	25
95°	25	25	21	24	34	36	35	22	24	27	27
97.5°	16	16	16	21	32	36	31	18	15	16	16
100°	6	5	7	15	24	25	20	14	5	2	2
102.5°	2	2	6	10	13	11	10	9	4	2	2
105°	2	2	3	5	6	3	4	5	2	2	2
107.5°	2	2	1	1	2	1	1	2	1	1	2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	2	2	0	0	0	1	0	1	0	1	1
115°	1	1	1	0	0	1	0	1	1	1	1
117.5°	2	2	1	0	0	0	0	0	1	2	2
120°	2	2	1	0	0	0	0	0	1	2	2
122.5°	2	2	1	0	0	0	0	0	1	2	2
125°	2	2	1	0	0	0	0	0	1	2	2
127.5°	2	2	1	0	0	0	0	0	1	2	2
130°	1	1	1	0	0	0	0	0	1	1	2
132.5°	1	1	1	0	0	0	0	0	1	1	1
135°	1	1	0	0	0	0	0	0	0	1	1
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	1	1	1	1	0	0	0	0	0	0	0
152.5°	1	1	1	0	0	0	0	1	0	0	0
155°	0	1	0	0	0	0	0	0	0	1	1
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



Report Generated By 670245982



--- HS --- SS



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110°	2	2	1	1	1	1	1	0	1	1
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