

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: G3-2106-280-21

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

Test Date: 6/25/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-21
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
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: 1336.5 lumens
Efficiency: N/A
Efficacy: 42.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type V - Short
BUG Rating: B1 - U1 - 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): 24.1
Test Distance: 24 FT



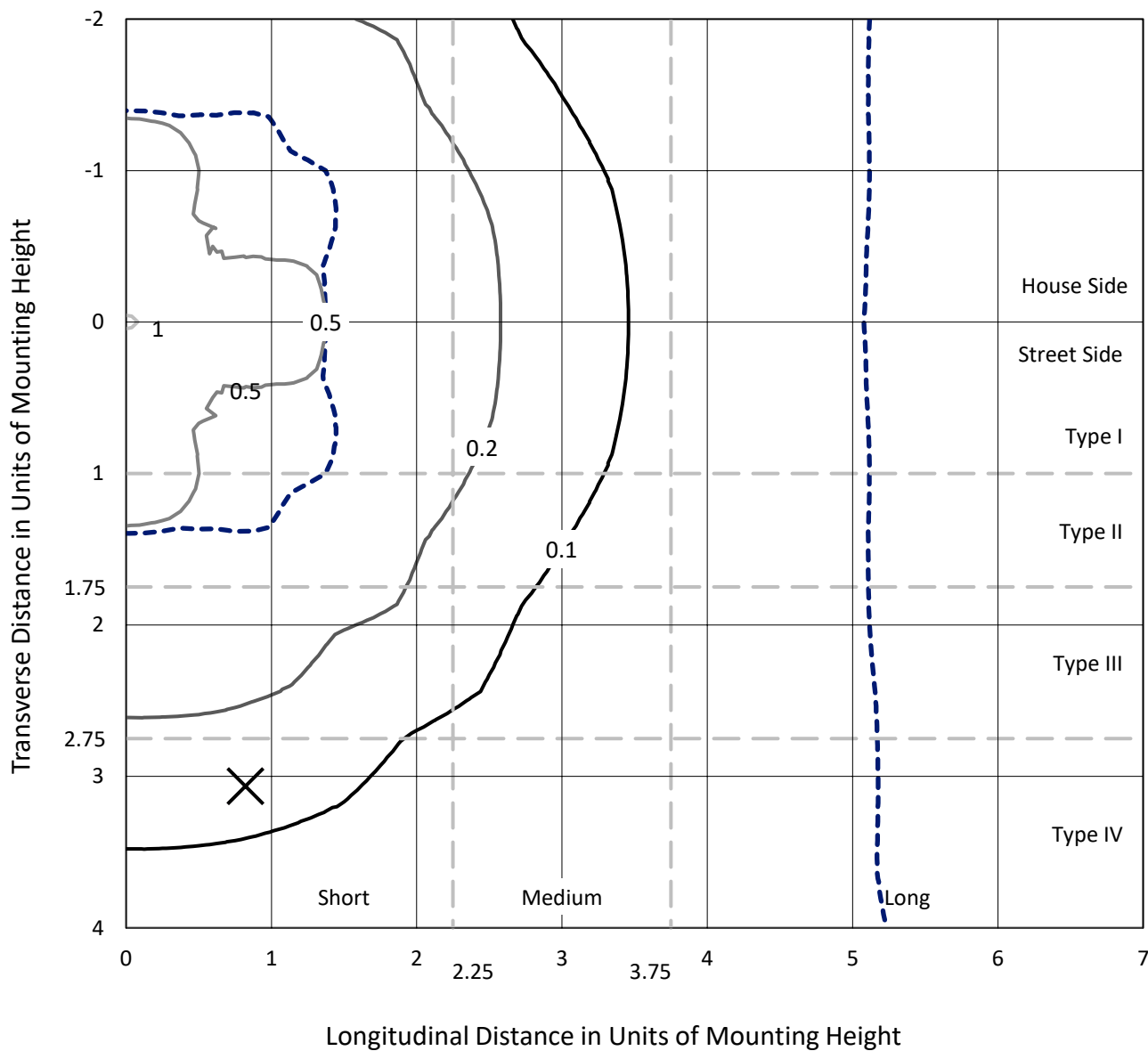
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

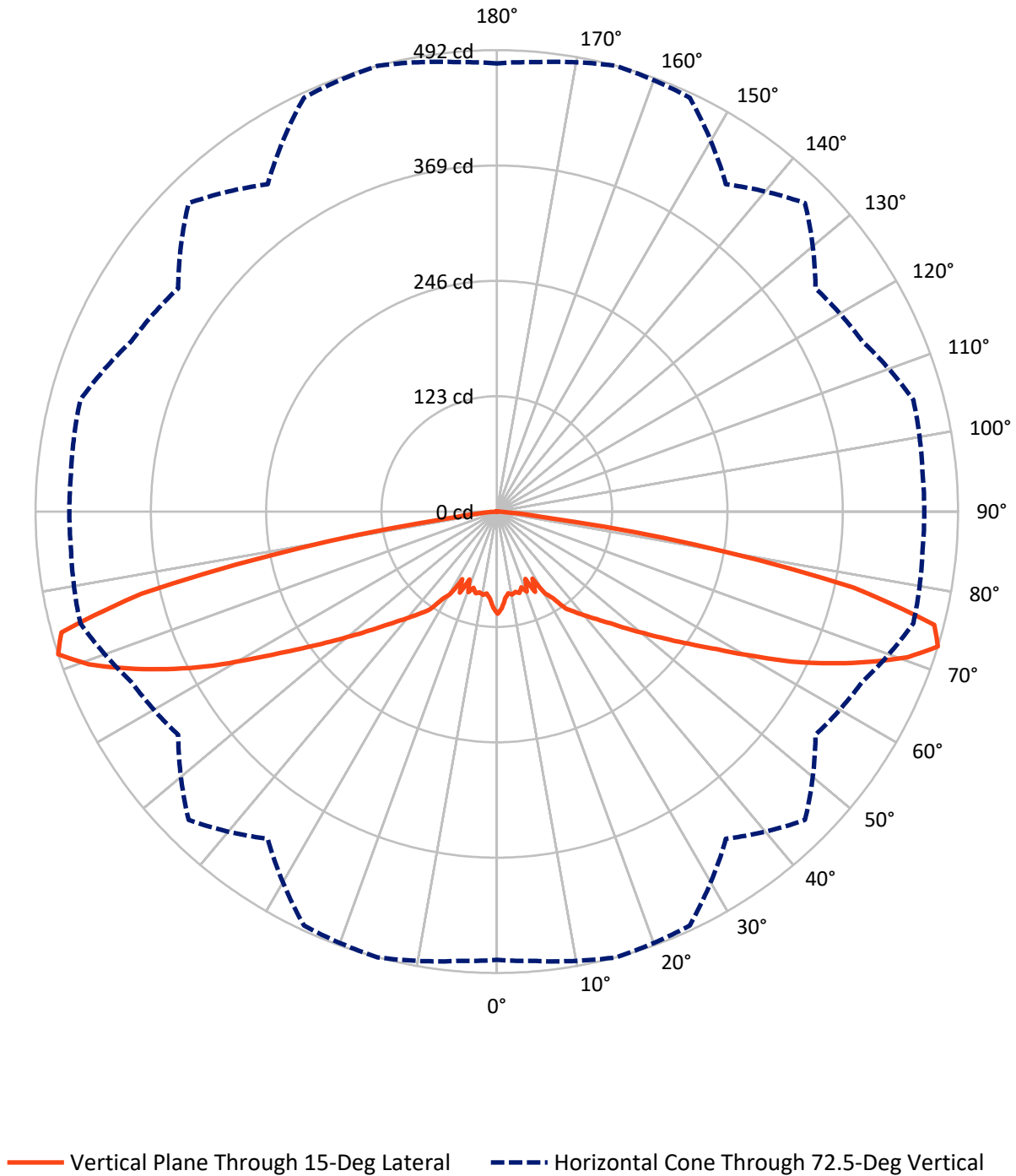


Based on 10 foot mounting height. Maximum calculated value = 1.1 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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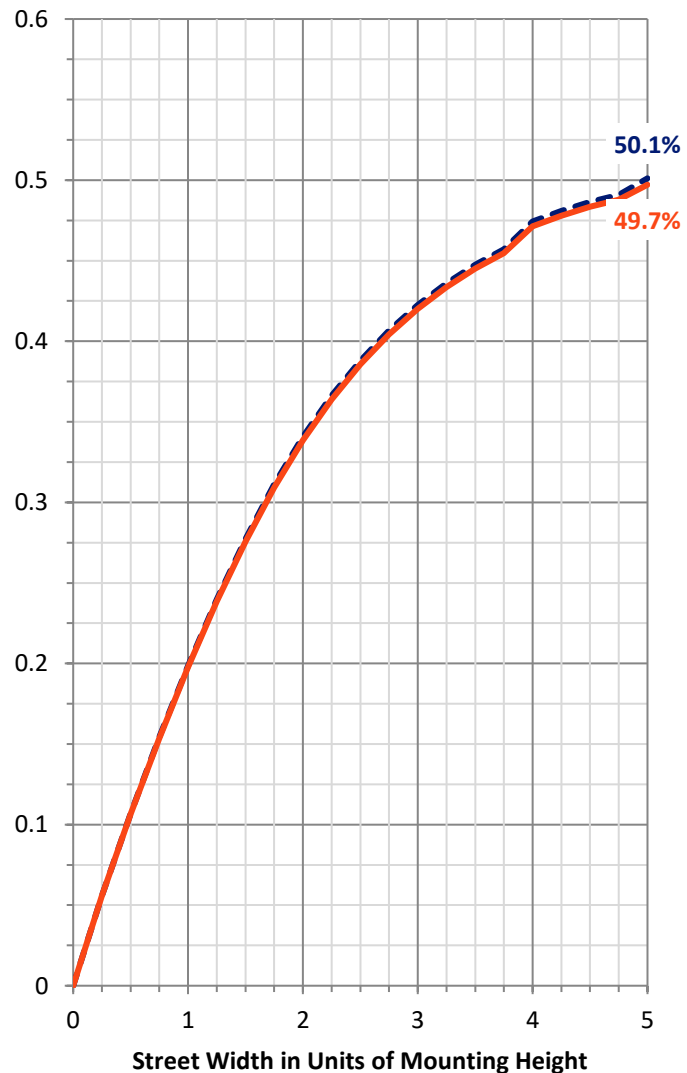
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	667.5	0.8	668.3
	% Fixture	49.9	0.1	50.0
Street Side	Lumens	667.5	0.8	668.3
	% Fixture	49.9	0.1	50.0
Total	Lumens	1335.0	1.6	1336.5
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	0.7
10°-20°	20.9	1.6
20°-30°	36.9	2.8
30°-40°	70.5	5.3
40°-50°	118.9	8.9
50°-60°	207.5	15.5
60°-70°	367.9	27.5
70°-80°	436.8	32.7
80°-90°	66.7	5.0
90°-100°	1.0	0.1
100°-110°	0.6	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°	1335.0	99.9
0°-180°	1336.5	100.0



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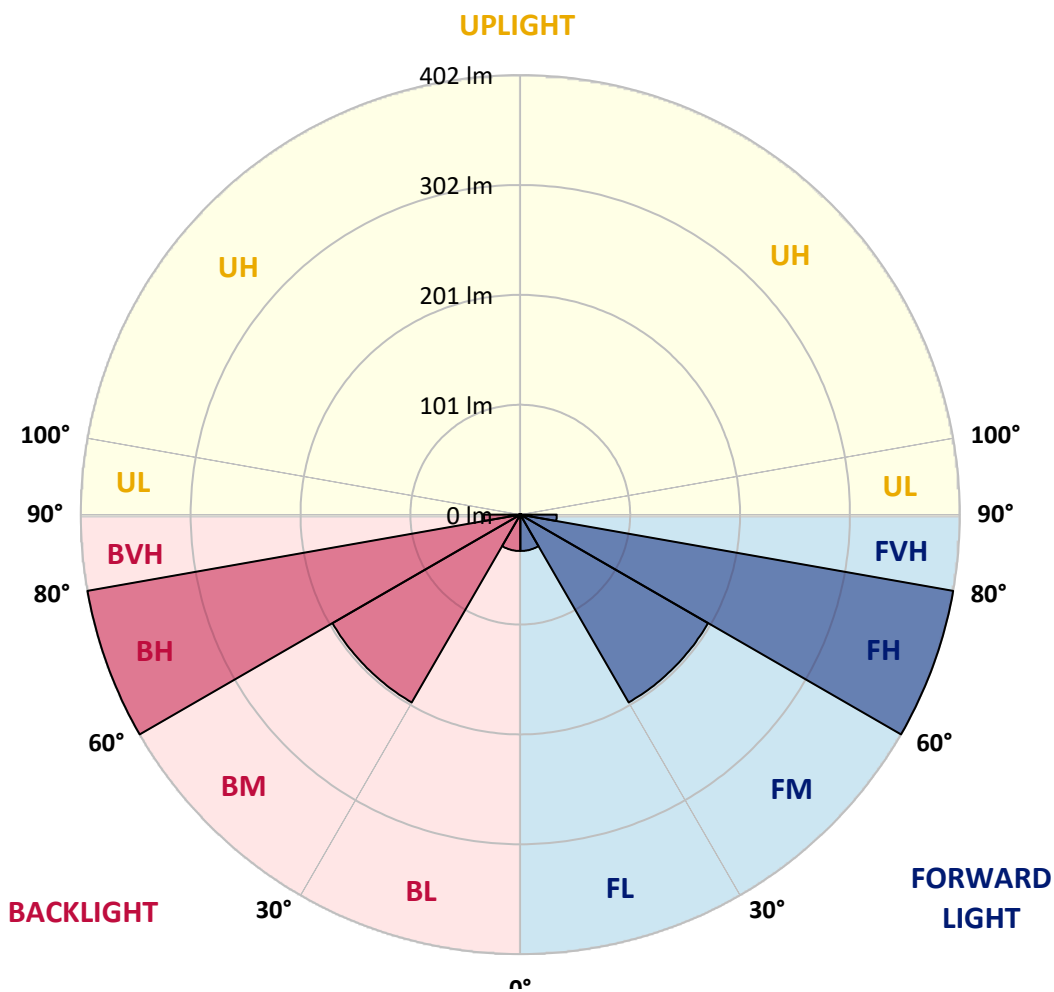
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	33.3	2.5			
FM	(30°-60°)	198.5	14.9			
FH	(60°-80°)	402.3	30.1			G0/660
FVH	(80°-90°)	33.4	2.5			G1/100
BL	(0°-30°)	33.3	2.5	B0/110		
BM	(30°-60°)	198.5	14.9	B0/220		
BH	(60°-80°)	402.3	30.1	B1/500		G0/660
BVH	(80°-90°)	33.4	2.5			G1/100
UL	(90°-100°)	1.0	0.1		U1/10	
UH	(100°-180°)	0.6	0.0		U1/10	

BUG Rating: B1-U1-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	109	109	109	109	109	109	109	109	109	109	109
2.5°	102	102	103	106	106	107	108	109	109	109	109
5°	93	93	93	93	93	93	95	104	108	108	108
7.5°	84	85	88	90	91	91	91	90	97	96	95
10°	91	91	90	87	78	83	72	71	74	83	84
12.5°	80	83	88	89	82	69	66	68	62	71	72
15°	92	92	90	80	67	72	57	58	69	81	81
17.5°	79	79	85	81	73	53	68	60	62	61	60
20°	94	94	91	68	71	74	65	53	71	82	83
22.5°	80	79	78	83	66	74	60	72	59	62	62
25°	96	96	95	75	79	64	73	61	81	88	88
27.5°	88	86	81	84	74	82	70	76	85	104	104
30°	103	102	101	85	80	77	79	88	111	123	123
32.5°	126	124	110	96	86	93	85	103	115	127	128
35°	131	131	127	108	92	98	92	107	120	132	133
37.5°	140	139	136	114	102	107	96	112	130	138	139
40°	150	149	146	124	109	113	101	122	139	148	148
42.5°	161	160	157	137	117	122	109	133	149	159	160
45°	175	173	170	150	130	134	120	142	163	173	174
47.5°	189	188	186	168	144	147	136	153	182	192	193
50°	208	206	204	186	159	164	151	170	206	211	211
52.5°	228	227	225	206	178	184	169	189	227	232	232
55°	250	250	249	230	196	209	190	210	251	254	255
57.5°	281	278	277	257	221	238	215	237	281	282	282
60°	314	313	312	294	255	276	249	274	315	313	312
62.5°	347	348	352	339	296	326	294	318	348	345	343
65°	380	382	390	386	345	382	344	365	384	377	375
67.5°	416	417	428	430	384	428	385	402	418	412	410
70°	450	453	465	467	413	457	412	424	442	434	433
72.5°	478	481	492	487	426	465	415	430	460	456	456
75°	471	473	482	486	417	459	395	431	470	475	474
77.5°	374	373	389	422	383	436	370	402	415	397	389
80°	176	181	214	271	303	394	317	247	178	132	124
82.5°	26	36	51	94	169	282	135	60	41	26	21
85°	6	6	14	19	26	57	31	17	14	9	9
87.5°	1	1	1	1	1	0	1	1	1	1	1
90°	0	1	1	1	1	0	1	1	1	1	0
92.5°	0	1	1	1	2	1	1	1	1	0	0
95°	0	1	1	1	2	1	1	1	1	0	0
97.5°	0	0	1	1	1	1	1	1	1	0	0
100°	0	0	1	1	1	1	1	1	1	0	0
102.5°	0	0	1	1	1	1	1	1	1	0	0
105°	0	0	0	1	1	1	1	1	0	0	0
107.5°	0	0	0	1	1	1	1	1	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
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°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
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°	0	0	0	0	0	0	0	0	0	0	0
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(END OF REPORT)