

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: P416636

Luminaire Tested: **LXF.LXT-PA1-80-727-U-5WQ-TL**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P416636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-21)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-80-727-U-5WQ-TL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7641 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

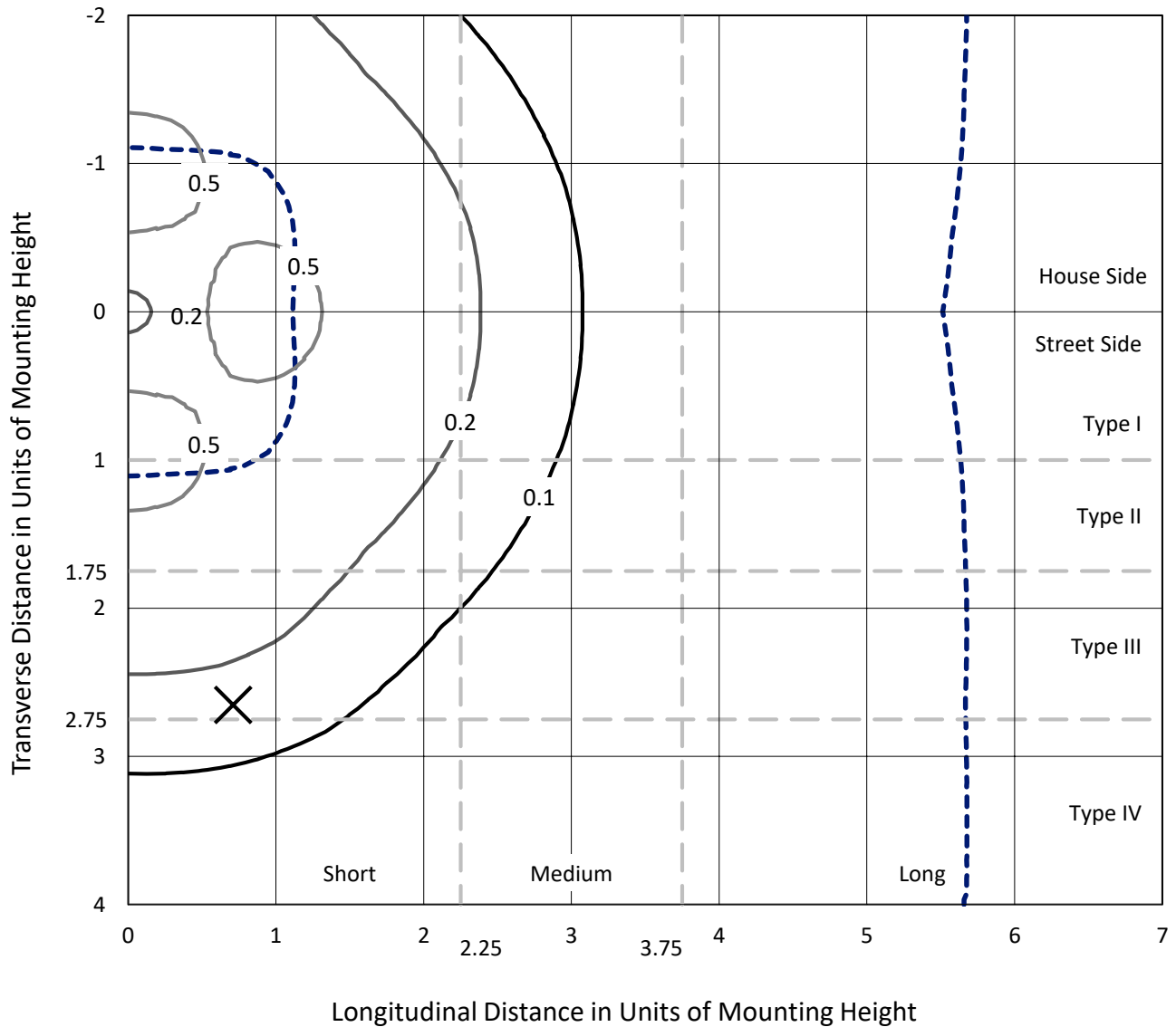
Input Watts (W): 83
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

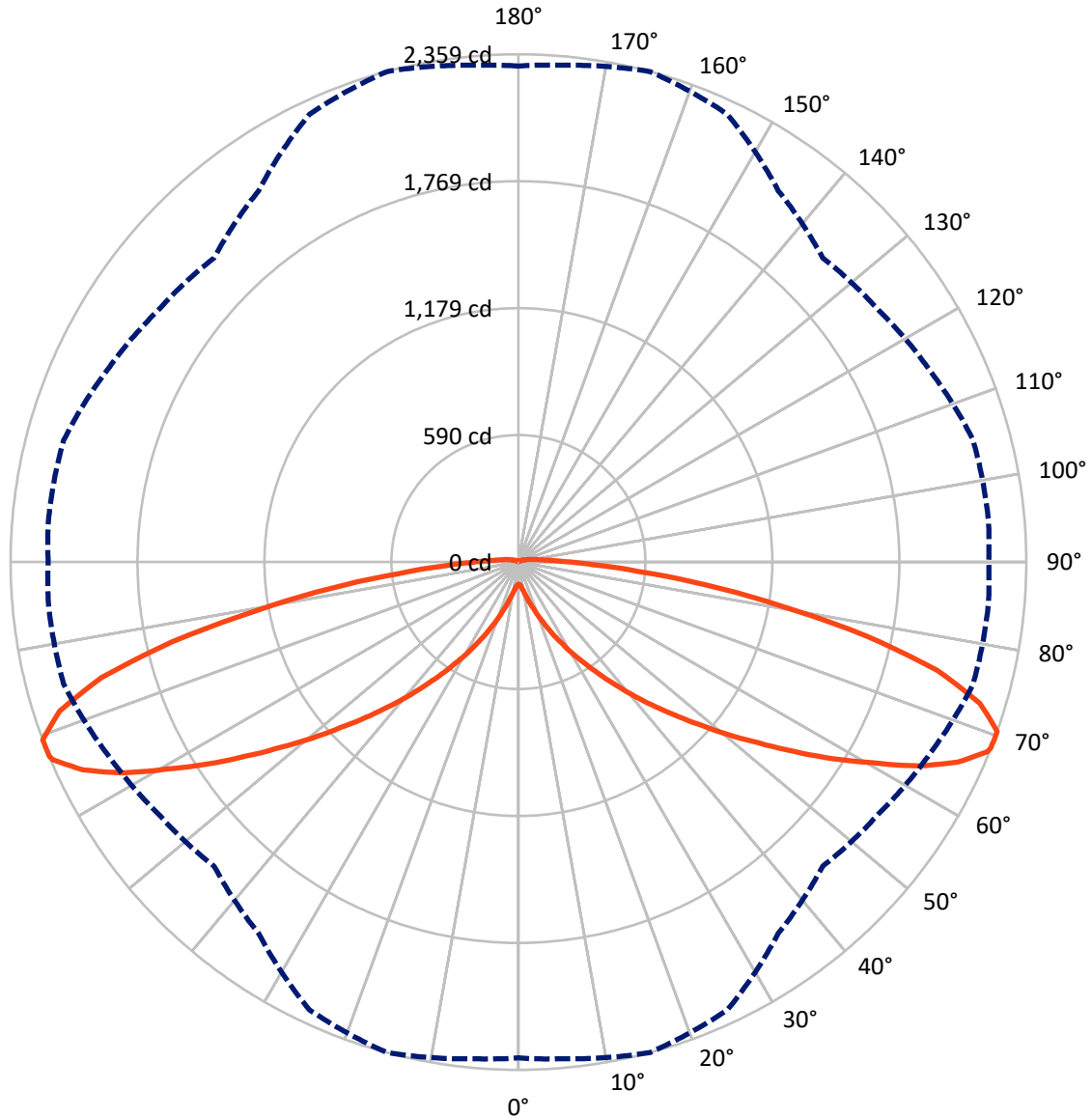
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3686.0	134.5	3820.5
	% Fixture	48.2	1.8	50.0
Street Side	Lumens	3686.0	134.5	3820.5
	% Fixture	48.2	1.8	50.0
Total	Lumens	7371.9	269.1	7641.0
	% Fixture	96.5	3.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	0.1
10°-20°	55.2	0.7
20°-30°	166.0	2.2
30°-40°	381.6	5.0
40°-50°	733.7	9.6
50°-60°	1297.3	17.0
60°-70°	2010.4	26.3
70°-80°	1951.1	25.5
80°-90°	765.3	10.0
90°-100°	164.7	2.2
100°-110°	56.2	0.7
110°-120°	24.7	0.3
120°-130°	12.5	0.2
130°-140°	6.8	0.1
140°-150°	3.2	0.0
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7371.9	96.5
0°-180°	7641.0	100.0



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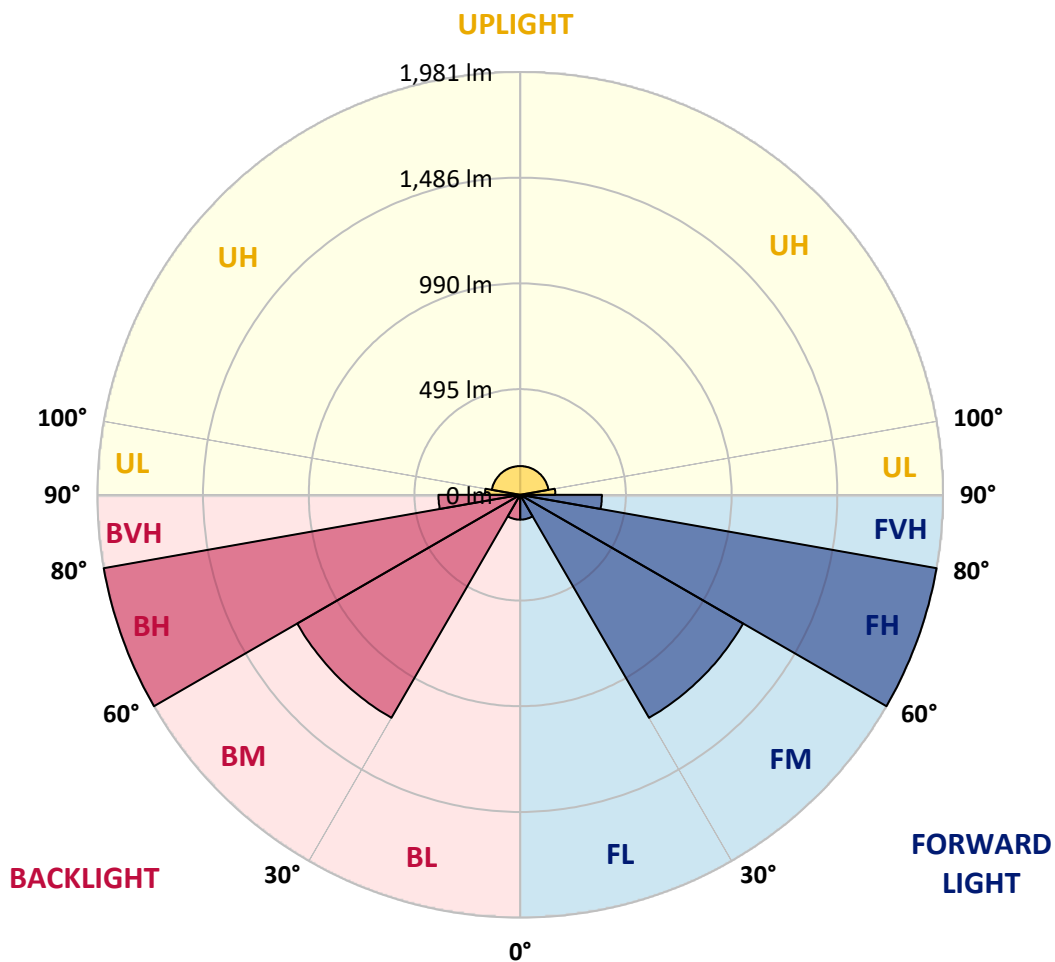
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	116.3	1.5			
FM	(30°-60°)	1206.3	15.8			
FH	(60°-80°)	1980.7	25.9			G2/5000
FVH	(80°-90°)	382.7	5.0			G3/500
BL	(0°-30°)	116.3	1.5	B1/500		
BM	(30°-60°)	1206.3	15.8	B2/2500		
BH	(60°-80°)	1980.7	25.9	B3/2500		G2/5000
BVH	(80°-90°)	382.7	5.0			G3/500
UL	(90°-100°)	164.7	2.2		U3/500	
UH	(100°-180°)	134.5	1.8		U3/500	

BUG Rating: B3-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9
2.5°	104.5	104.5	104.5	105.4	105.4	106.2	105.4	104.5	104.5	103.7	103.7
5°	112.1	112.1	112.1	112.1	112.9	112.9	111.2	110.4	109.6	109.6	109.6
7.5°	123.8	123.8	124.6	123.8	123.8	123.0	121.3	119.6	119.6	118.8	118.8
10°	142.2	140.5	140.5	139.7	138.8	137.2	135.5	134.7	133.0	133.0	131.3
12.5°	167.3	166.4	163.9	161.4	158.1	155.6	153.9	153.1	153.1	153.1	154.7
15°	196.6	197.4	195.7	189.9	183.2	178.2	177.3	177.3	179.0	180.7	180.7
17.5°	235.0	233.4	229.2	222.5	214.1	209.1	205.8	208.3	212.4	215.0	216.6
20°	276.8	276.0	270.2	259.3	250.1	243.4	240.9	244.2	251.8	258.4	257.6
22.5°	325.4	324.5	315.3	301.1	288.6	281.0	278.5	285.2	301.1	309.5	311.1
25°	380.6	378.1	369.7	350.5	332.9	321.2	322.8	334.6	355.5	372.2	371.4
27.5°	443.3	439.9	424.1	402.3	378.9	367.2	370.5	389.8	418.2	437.4	439.9
30°	511.9	506.9	490.1	458.3	431.6	414.9	423.2	450.0	485.9	513.5	516.9
32.5°	578.0	583.8	555.4	523.6	486.8	465.0	475.9	512.7	557.0	595.5	598.9
35°	661.6	656.6	632.3	590.5	545.3	522.7	537.0	582.1	632.3	677.5	679.2
37.5°	751.1	746.1	714.3	663.3	610.6	583.8	602.2	650.7	715.1	760.3	770.3
40°	847.3	837.2	808.0	745.2	680.8	653.2	670.8	731.8	801.3	850.6	857.3
42.5°	941.8	935.9	905.8	833.9	760.3	725.2	751.1	811.3	891.6	940.1	948.5
45°	1044.7	1043.8	1011.2	932.6	849.8	810.5	837.2	904.1	981.1	1037.1	1042.2
47.5°	1153.4	1154.2	1125.8	1047.2	946.8	902.5	928.4	1003.7	1094.0	1144.2	1149.2
50°	1282.2	1277.2	1257.9	1165.9	1060.6	1010.4	1043.8	1122.4	1206.1	1259.6	1264.6
52.5°	1417.7	1417.7	1395.1	1310.6	1187.7	1135.8	1164.3	1244.6	1338.2	1386.7	1396.8
55°	1568.2	1561.6	1552.4	1460.3	1334.9	1274.7	1303.1	1394.3	1480.4	1522.2	1523.1
57.5°	1731.3	1724.7	1723.0	1640.2	1497.2	1418.5	1451.1	1537.3	1635.2	1662.8	1671.1
60°	1889.4	1901.1	1894.4	1821.7	1660.2	1571.6	1608.4	1698.7	1793.2	1818.3	1826.7
62.5°	2061.7	2067.6	2086.0	1997.3	1823.3	1728.8	1765.6	1845.9	1942.1	1963.0	1966.4
65°	2210.6	2216.5	2240.7	2157.1	1959.7	1860.1	1902.0	1986.4	2082.6	2101.0	2090.2
67.5°	2299.3	2312.6	2349.4	2270.0	2066.7	1957.2	1999.8	2079.3	2162.9	2179.7	2165.4
68°	2312.6	2323.5	2357.8	2285.9	2080.1	1968.9	2014.0	2092.7	2178.0	2191.4	2180.5
70°	2303.4	2316.0	2358.6	2295.1	2104.4	1998.2	2040.8	2107.7	2186.3	2191.4	2183.8
72.5°	2176.3	2198.9	2240.7	2218.1	2063.4	1967.2	2003.2	2044.2	2098.5	2097.7	2088.5
75°	1932.9	1922.9	2009.0	2019.9	1917.9	1862.7	1880.2	1881.1	1891.9	1876.9	1846.8
77.5°	1545.7	1569.1	1652.7	1725.5	1691.2	1669.4	1672.8	1623.4	1601.7	1537.3	1517.2
80°	1127.5	1145.9	1235.4	1345.8	1395.1	1420.2	1391.8	1298.9	1222.8	1156.7	1134.2
82.5°	769.5	776.2	881.6	987.8	1086.5	1116.6	1091.5	965.2	859.8	789.6	758.6
85°	473.4	484.3	559.5	664.9	781.2	849.8	791.2	664.9	558.7	503.5	491.0
87.5°	278.5	295.2	345.4	424.9	536.1	594.7	548.7	439.1	353.8	313.6	298.6
90°	174.0	184.0	215.8	273.5	359.7	402.3	371.4	285.2	228.3	194.0	183.2
92.5°	121.3	124.6	146.4	183.2	245.1	274.3	248.4	195.7	156.4	130.5	126.3
95°	90.3	92.8	106.2	129.6	169.0	191.5	174.0	138.0	111.2	93.7	91.2
97.5°	71.1	72.8	83.6	98.7	123.8	139.7	128.8	105.4	86.1	71.9	69.4
100°	55.2	56.9	66.9	78.6	97.0	105.4	98.7	82.8	67.7	55.2	53.5
102.5°	43.5	44.3	53.5	64.4	77.8	83.6	78.6	66.9	53.5	42.7	41.8
105°	34.3	35.1	43.5	53.5	64.4	68.6	65.2	55.2	42.7	32.6	31.8
107.5°	26.8	27.6	34.3	44.3	53.5	56.9	53.5	45.2	33.5	25.9	25.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	21.7	21.7	28.4	36.8	45.2	47.7	45.2	36.8	26.8	20.9	20.1
112.5°	18.4	18.4	23.4	30.9	37.6	41.0	37.6	30.1	21.7	16.7	16.7
115°	15.1	15.9	19.2	25.9	31.8	34.3	31.8	25.1	18.4	14.2	14.2
117.5°	13.4	14.2	16.7	21.7	27.6	29.3	26.8	20.9	15.1	12.5	12.5
120°	12.5	12.5	14.2	18.4	23.4	25.1	22.6	18.4	13.4	11.7	11.7
122.5°	11.7	11.7	12.5	15.9	20.1	21.7	19.2	15.1	11.7	10.9	10.0
125°	10.9	10.9	11.7	14.2	17.6	18.4	16.7	13.4	10.0	9.2	9.2
127.5°	10.0	10.0	10.9	12.5	15.1	15.9	15.1	11.7	9.2	9.2	9.2
130°	9.2	9.2	10.0	10.9	13.4	14.2	12.5	10.0	8.4	8.4	8.4
132.5°	8.4	8.4	8.4	10.0	11.7	11.7	10.9	9.2	8.4	7.5	7.5
135°	8.4	8.4	8.4	8.4	10.0	10.9	9.2	8.4	7.5	7.5	7.5
137.5°	7.5	7.5	7.5	7.5	8.4	9.2	8.4	7.5	6.7	6.7	6.7
140°	6.7	6.7	6.7	6.7	7.5	7.5	7.5	5.9	5.9	5.9	5.9
142.5°	5.9	5.9	5.9	5.9	5.9	6.7	5.9	5.0	5.0	5.0	5.0
145°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
147.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
150°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
152.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
155°	1.7	1.7	1.7	1.7	2.5	1.7	2.5	1.7	1.7	1.7	1.7
157.5°	0.8	0.8	1.7	1.7	1.7	2.5	1.7	1.7	0.8	0.8	0.8
160°	0.0	0.8	0.8	0.8	1.7	1.7	1.7	0.8	0.8	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)