

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: P417308

Luminaire Tested: **LXF.LXT-PA1-90-827-U-5WQ-A**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P417308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-90-827-U-5WQ-A  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7272 lumens  
Efficiency: N/A  
Efficacy: 77.4 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): 94  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

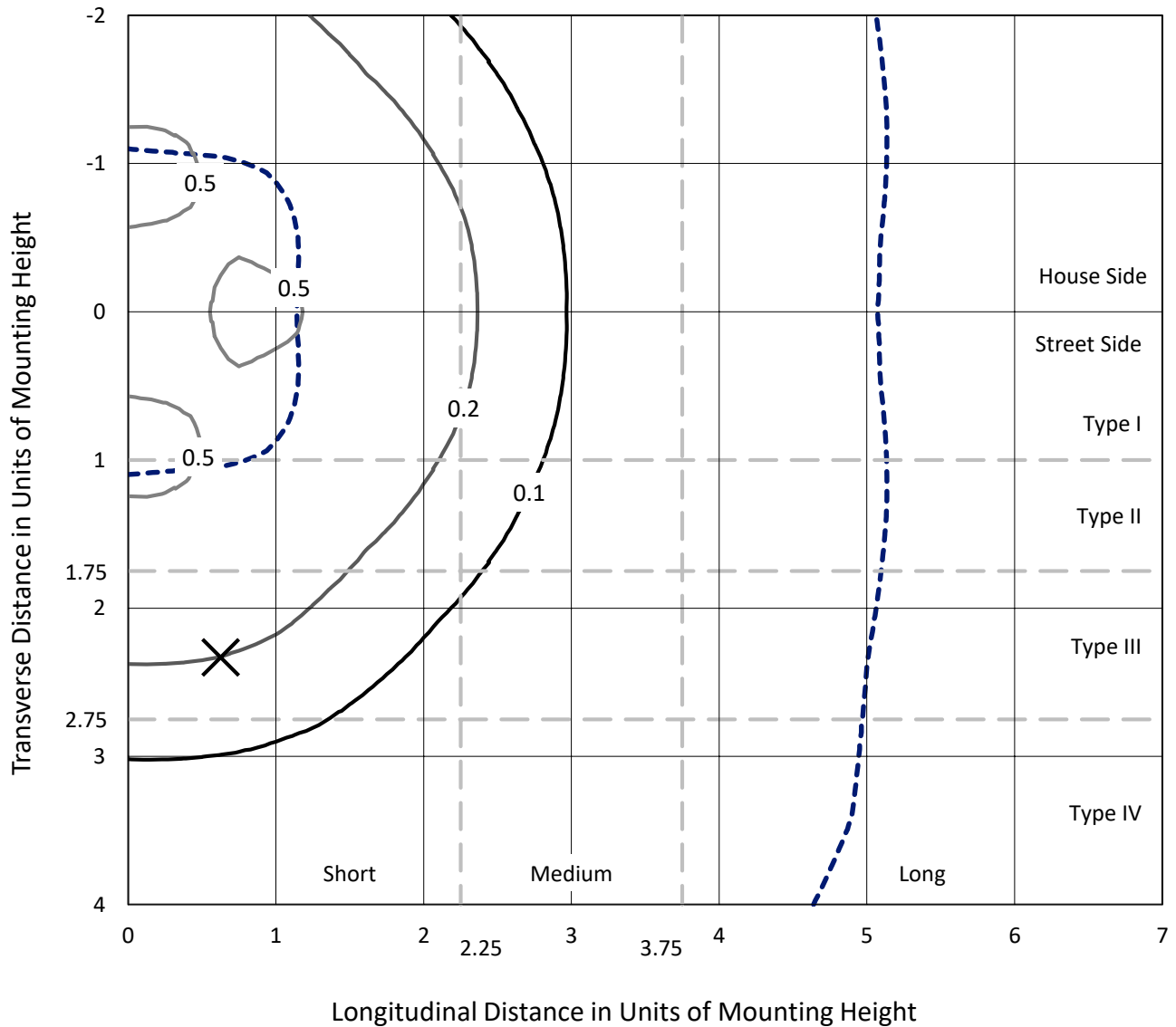


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

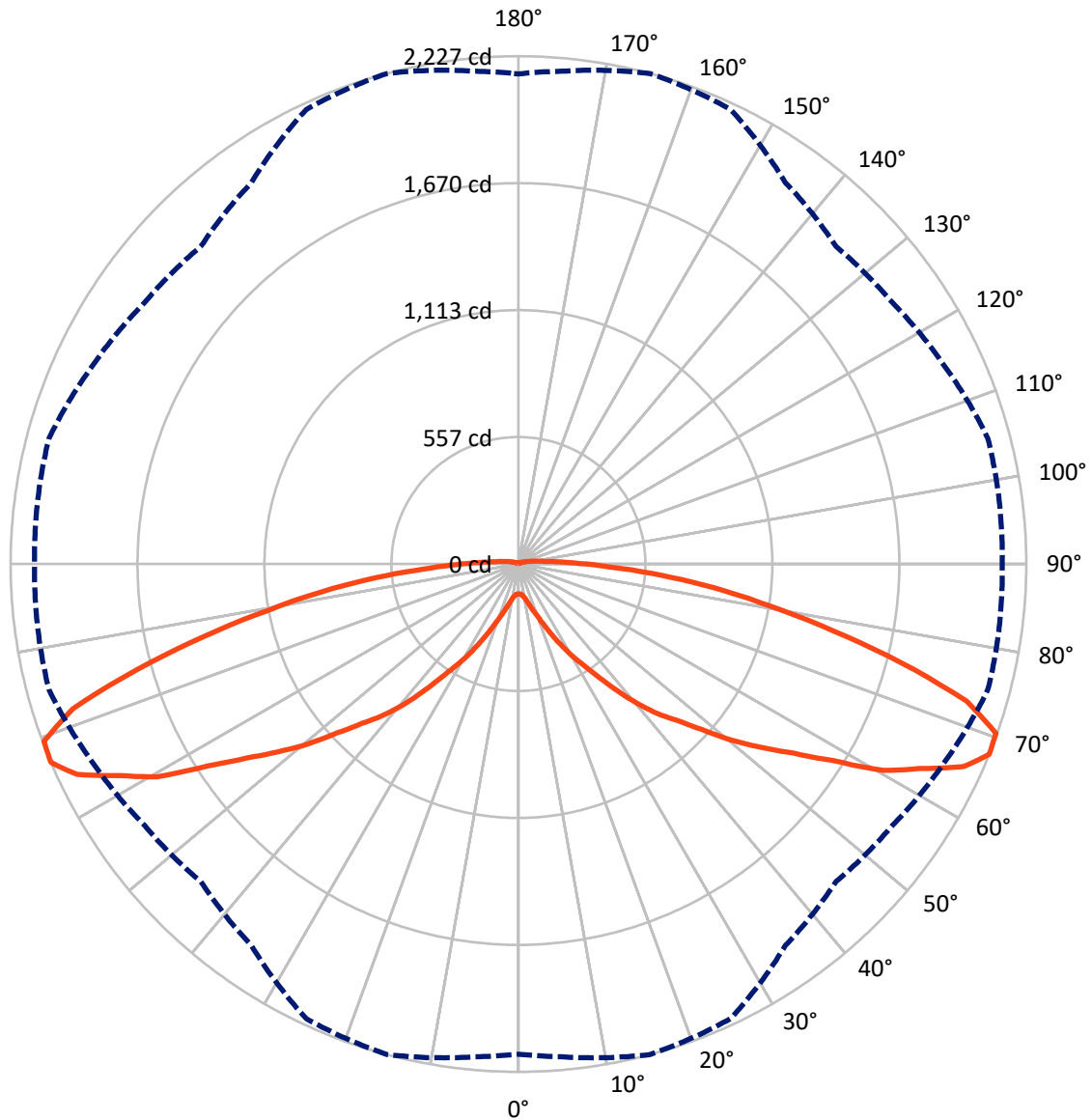


Based on 25 foot mounting height. Maximum calculated value = 0.6 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3492.5	143.5	3636.0
	% Fixture	48.0	2.0	50.0
<b>Street Side</b>	Lumens	3492.5	143.5	3636.0
	% Fixture	48.0	2.0	50.0
<b>Total</b>	Lumens	6985.0	287.0	7272.0
	% Fixture	96.1	3.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.2	0.2
10°-20°	54.3	0.7
20°-30°	156.6	2.2
30°-40°	368.7	5.1
40°-50°	695.0	9.6
50°-60°	1239.5	17.0
60°-70°	1959.6	26.9
70°-80°	1726.5	23.7
80°-90°	771.7	10.6
90°-100°	191.6	2.6
100°-110°	52.8	0.7
110°-120°	21.2	0.3
120°-130°	11.2	0.2
130°-140°	6.5	0.1
140°-150°	2.8	0.0
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6985.0	96.1
0°-180°	7272.0	100.0



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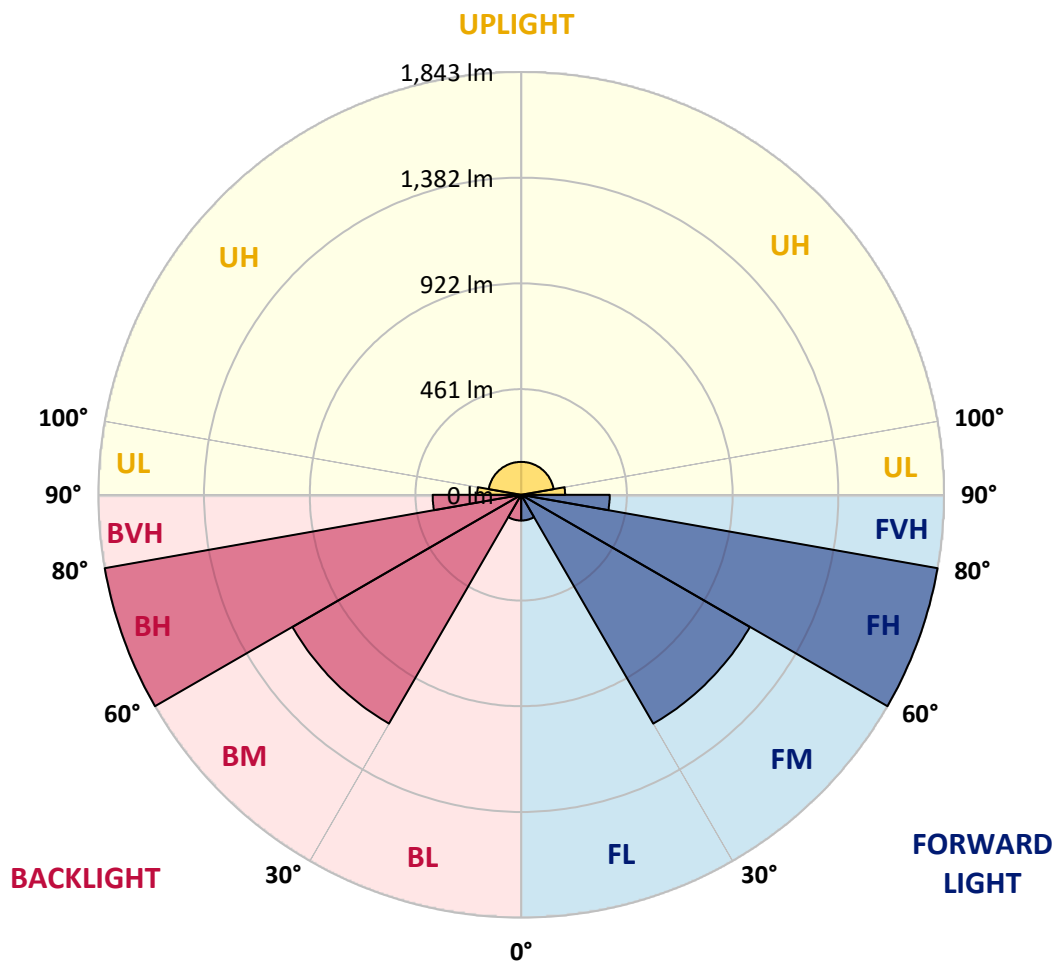
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	112.1	1.5			
FM (30°-60°)	1151.6	15.8			
FH (60°-80°)	1843.0	25.3			G2/5000
FVH (80°-90°)	385.8	5.3			G3/500
BL (0°-30°)	112.1	1.5	B1/500		
BM (30°-60°)	1151.6	15.8	B2/2500		
BH (60°-80°)	1843.0	25.3	B3/2500		G2/5000
BVH (80°-90°)	385.8	5.3			G3/500
UL (90°-100°)	191.6	2.6		U3/500	
UH (100°-180°)	143.5	2.0		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°	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8
2.5°	130.8	130.8	131.6	131.6	132.4	133.2	132.4	131.6	130.8	130.0	130.0
5°	134.7	134.7	134.7	134.7	135.5	135.5	134.7	133.2	132.4	131.6	131.6
7.5°	141.1	141.1	141.1	141.1	141.1	140.3	138.7	137.1	136.3	135.5	135.5
10°	151.4	151.4	149.8	149.8	149.0	148.2	146.6	145.0	143.5	144.3	144.3
12.5°	168.8	169.6	167.2	163.3	160.1	158.5	157.7	157.7	160.1	160.1	160.9
15°	194.2	194.2	190.2	184.7	178.3	173.6	175.2	179.1	183.1	185.5	185.5
17.5°	221.9	221.9	218.0	210.8	202.1	199.7	198.9	202.9	211.6	214.8	215.6
20°	256.8	256.8	249.7	239.4	231.4	228.3	228.3	234.6	244.1	251.3	250.5
22.5°	304.4	303.6	293.3	275.8	265.5	260.8	260.0	268.7	285.3	296.4	299.6
25°	361.4	360.6	347.2	324.2	308.3	295.6	298.8	313.9	339.2	356.7	356.7
27.5°	426.4	423.3	405.8	380.5	356.7	340.0	344.8	366.2	397.9	421.7	422.5
30°	489.8	489.8	470.8	440.7	409.0	388.4	393.9	424.1	462.1	499.4	500.1
32.5°	557.2	556.4	532.6	502.5	463.7	440.7	449.4	486.7	540.6	583.4	591.3
35°	643.6	644.4	611.1	569.9	520.8	495.4	507.3	555.6	619.8	671.3	676.1
37.5°	736.3	741.1	704.6	651.5	585.7	554.8	572.3	628.5	703.1	757.0	757.0
40°	836.2	838.6	805.3	737.9	658.7	618.2	641.2	701.5	758.5	804.5	806.9
42.5°	921.0	923.4	897.2	831.5	742.7	694.3	707.8	753.8	807.7	859.2	864.0
45°	987.6	995.5	979.7	923.4	833.0	774.4	772.8	819.6	884.6	938.5	944.8
47.5°	1108.1	1112.0	1084.3	1017.7	925.8	861.6	855.2	902.0	986.8	1044.7	1048.6
50°	1214.3	1226.2	1215.9	1144.5	1035.2	957.5	958.3	1020.1	1112.0	1170.7	1176.2
52.5°	1334.0	1339.5	1336.4	1275.3	1169.1	1077.2	1087.5	1157.2	1256.3	1292.8	1299.1
55°	1443.4	1452.1	1463.2	1418.0	1312.6	1231.7	1241.2	1315.7	1382.3	1417.2	1420.4
57.5°	1616.9	1625.7	1624.9	1558.3	1467.9	1389.5	1405.3	1464.0	1551.2	1610.6	1620.9
60°	1805.6	1818.3	1838.1	1751.7	1616.2	1561.5	1581.3	1666.1	1765.2	1773.9	1785.0
62.5°	1931.6	1938.0	1975.2	1946.7	1788.9	1723.2	1775.5	1847.6	1899.1	1907.0	1903.9
65°	2096.5	2117.1	2143.2	2077.5	1950.6	1860.3	1920.5	1974.4	2067.2	2075.1	2073.5
67.5°	2148.8	2168.6	2226.5	2199.5	2041.0	1968.9	1999.8	2059.2	2130.6	2124.2	2121.1
70°	2152.8	2171.8	2220.9	2206.7	2061.6	1961.7	1993.4	2016.4	2082.2	2083.0	2074.3
72.5°	1937.2	1970.5	2054.5	2079.8	1953.0	1850.8	1853.1	1852.4	1857.1	1804.8	1784.2
75°	1632.0	1655.8	1738.2	1799.2	1734.3	1646.3	1644.7	1578.1	1563.8	1524.2	1509.9
77.5°	1307.0	1336.4	1415.6	1482.2	1459.2	1411.7	1387.1	1311.8	1291.2	1246.0	1251.5
80°	1016.1	1039.1	1117.6	1204.0	1210.3	1177.0	1150.1	1088.3	1047.8	1009.8	993.2
82.5°	782.3	802.1	869.5	963.0	1001.9	997.9	959.9	890.1	853.7	817.2	795.8
85°	540.6	558.0	624.6	737.9	807.7	832.3	789.4	701.5	636.5	585.0	573.1
87.5°	348.8	356.7	409.8	508.1	612.7	670.6	625.4	515.2	433.6	392.3	378.9
90°	218.0	229.9	267.9	328.9	431.2	504.9	458.9	347.2	288.5	246.5	237.8
92.5°	151.4	149.8	176.0	218.8	294.1	354.3	314.7	229.9	182.3	154.6	149.0
95°	99.9	103.8	118.1	145.0	198.9	236.2	207.7	153.0	119.7	99.9	97.5
97.5°	74.5	75.3	86.4	103.0	135.5	155.4	137.9	106.2	84.8	72.1	71.3
100°	58.7	59.4	67.4	76.9	95.1	107.8	96.7	80.1	65.8	56.3	56.3
102.5°	46.0	46.8	52.3	60.2	72.1	80.1	73.7	61.8	51.5	44.4	43.6
105°	36.5	36.5	41.2	47.6	56.3	61.8	57.9	48.3	39.6	34.9	34.9
107.5°	28.5	29.3	32.5	37.3	45.2	50.7	46.0	37.3	30.9	26.9	26.9
110°	23.0	23.0	25.4	30.1	36.5	41.2	37.3	30.1	24.6	22.2	22.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	19.0	19.0	20.6	24.6	30.1	34.1	30.1	24.6	19.8	18.2	18.2
115°	15.9	15.9	17.4	19.8	25.4	27.7	25.4	19.8	16.6	15.1	15.1
117.5°	14.3	14.3	15.1	17.4	21.4	23.0	21.4	16.6	14.3	13.5	13.5
120°	12.7	12.7	13.5	15.1	18.2	19.8	18.2	15.1	12.7	11.9	11.9
122.5°	11.9	11.9	11.9	13.5	16.6	17.4	15.9	13.5	11.1	11.1	11.1
125°	11.1	11.1	11.1	11.9	14.3	15.1	14.3	11.9	10.3	10.3	10.3
127.5°	10.3	10.3	10.3	11.1	12.7	13.5	12.7	11.1	9.5	9.5	9.5
130°	10.3	10.3	9.5	10.3	11.1	11.9	11.1	10.3	9.5	8.7	9.5
132.5°	9.5	9.5	9.5	9.5	10.3	10.3	10.3	9.5	8.7	8.7	8.7
135°	8.7	8.7	7.9	7.9	8.7	9.5	8.7	7.9	7.9	7.9	7.9
137.5°	7.9	7.1	7.1	7.1	7.9	7.9	7.9	7.1	7.1	7.1	7.1
140°	6.3	6.3	6.3	6.3	6.3	7.1	6.3	5.5	5.5	6.3	6.3
142.5°	5.5	5.5	5.5	4.8	5.5	5.5	5.5	4.8	4.8	4.8	4.8
145°	4.8	4.8	4.8	4.0	4.8	4.8	4.8	4.0	4.0	4.0	4.0
147.5°	3.2	4.0	3.2	3.2	4.0	4.0	3.2	3.2	3.2	3.2	3.2
150°	2.4	2.4	2.4	2.4	3.2	3.2	2.4	2.4	2.4	2.4	2.4
152.5°	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6	1.6
155°	1.6	1.6	1.6	1.6	2.4	2.4	1.6	1.6	1.6	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	1.6	2.4	1.6	0.8	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.8	1.6	2.4	1.6	0.8	0.0	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)