

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: P417312

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

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P417312  
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-PA1-90-827-U-5WQ-TL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 2700K, 1180mA 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: 7241 lumens  
Efficiency: N/A  
Efficacy: 77.0 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

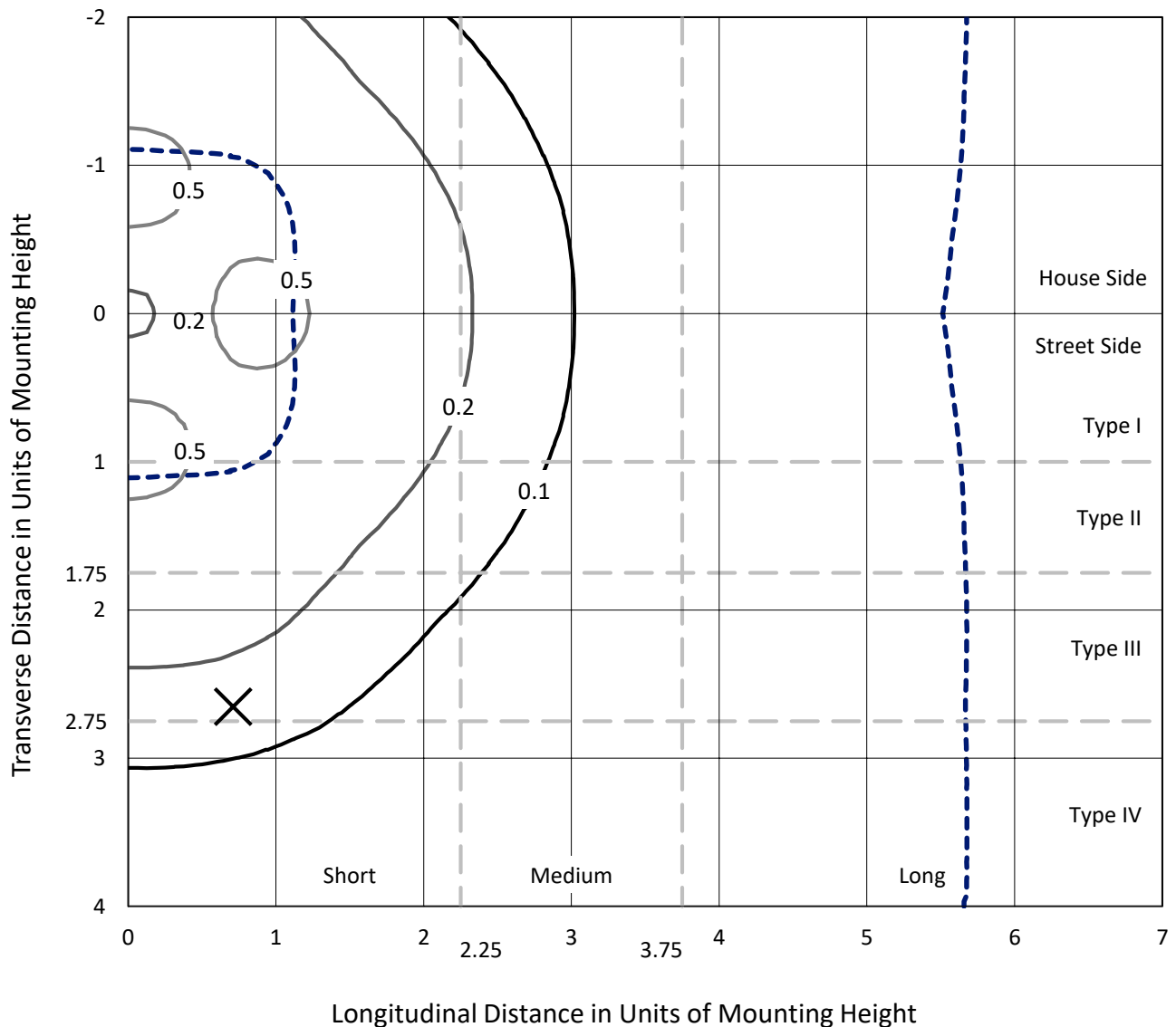


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

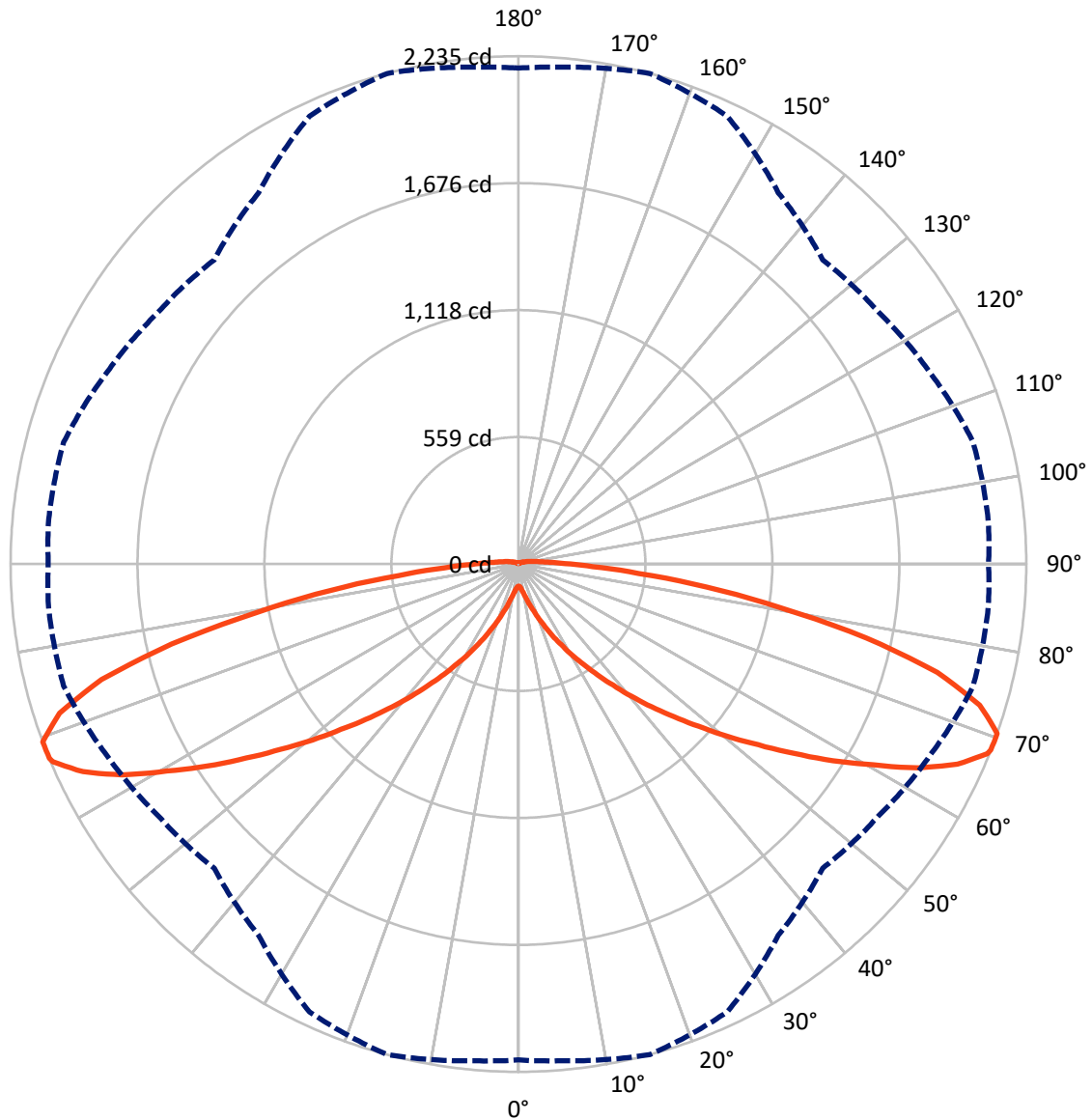


Based on 25 foot mounting height. Maximum calculated value = 0.6 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3493.0	127.5	3620.5
	% Fixture	48.2	1.8	50.0
<b>Street Side</b>	Lumens	3493.0	127.5	3620.5
	% Fixture	48.2	1.8	50.0
<b>Total</b>	Lumens	6986.0	255.0	7241.0
	% Fixture	96.5	3.5	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.8	0.1
10°-20°	52.3	0.7
20°-30°	157.3	2.2
30°-40°	361.6	5.0
40°-50°	695.3	9.6
50°-60°	1229.4	17.0
60°-70°	1905.1	26.3
70°-80°	1849.0	25.5
80°-90°	725.2	10.0
90°-100°	156.1	2.2
100°-110°	53.3	0.7
110°-120°	23.4	0.3
120°-130°	11.8	0.2
130°-140°	6.4	0.1
140°-150°	3.0	0.0
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6986.0	96.5
0°-180°	7241.0	100.0



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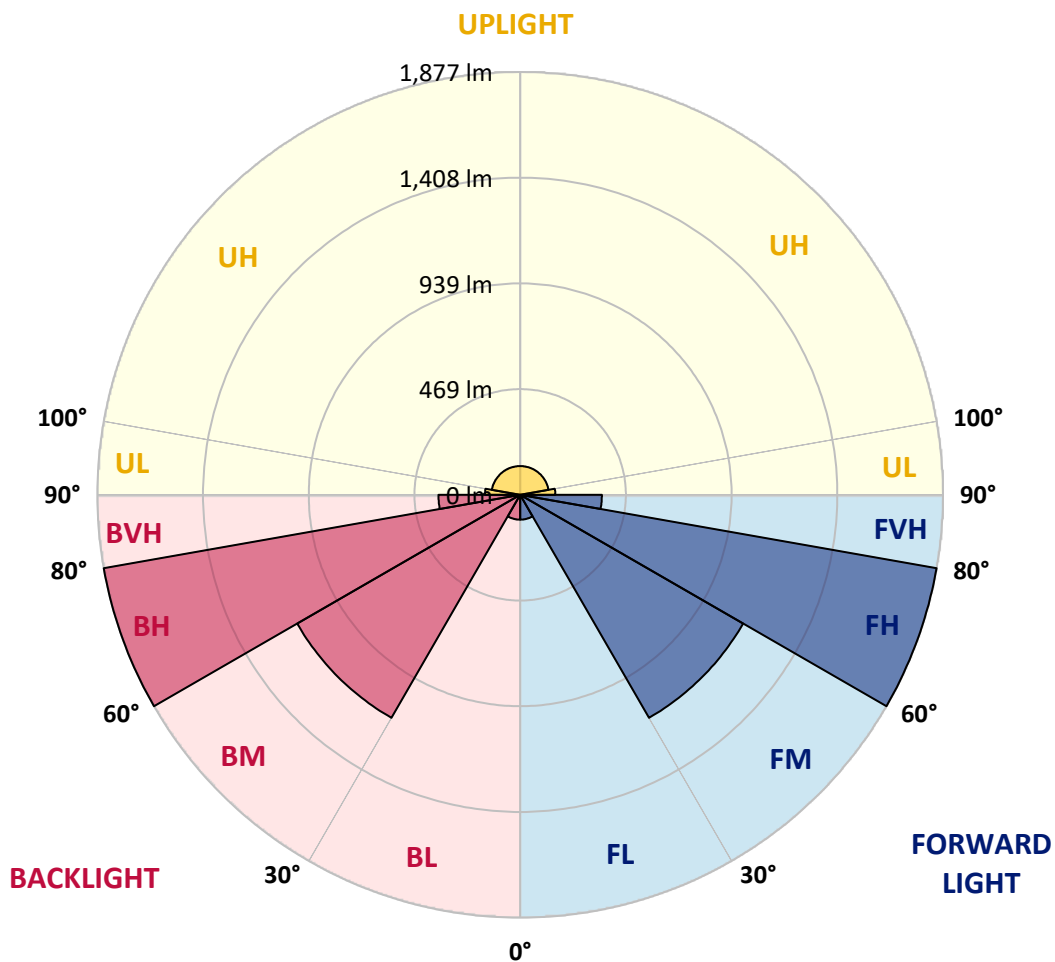
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	110.2	1.5			
FM	(30°-60°)	1143.1	15.8			
FH	(60°-80°)	1877.0	25.9			G2/5000
FVH	(80°-90°)	362.6	5.0			G3/500
BL	(0°-30°)	110.2	1.5	B1/500		
BM	(30°-60°)	1143.1	15.8	B2/2500		
BH	(60°-80°)	1877.0	25.9	B3/2500		G2/5000
BVH	(80°-90°)	362.6	5.0			G3/500
UL	(90°-100°)	156.1	2.2		U3/500	
UH	(100°-180°)	127.5	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°	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
2.5°	99.1	99.1	99.1	99.9	99.9	100.7	99.9	99.1	99.1	98.3	98.3
5°	106.2	106.2	106.2	106.2	107.0	107.0	105.4	104.6	103.8	103.8	103.8
7.5°	117.3	117.3	118.1	117.3	117.3	116.5	114.9	113.3	113.3	112.6	112.6
10°	134.7	133.2	133.2	132.4	131.6	130.0	128.4	127.6	126.0	126.0	124.4
12.5°	158.5	157.7	155.4	153.0	149.8	147.4	145.8	145.0	145.0	145.0	146.6
15°	186.3	187.1	185.5	179.9	173.6	168.8	168.0	168.0	169.6	171.2	171.2
17.5°	222.7	221.1	217.2	210.8	202.9	198.2	195.0	197.4	201.3	203.7	205.3
20°	262.4	261.6	256.0	245.7	237.0	230.7	228.3	231.4	238.6	244.9	244.1
22.5°	308.3	307.5	298.8	285.3	273.5	266.3	263.9	270.3	285.3	293.3	294.9
25°	360.6	358.3	350.3	332.1	315.5	304.4	305.9	317.0	336.9	352.7	351.9
27.5°	420.1	416.9	401.9	381.2	359.1	348.0	351.1	369.4	396.3	414.5	416.9
30°	485.1	480.3	464.5	434.4	409.0	393.1	401.1	426.4	460.5	486.7	489.8
32.5°	547.7	553.2	526.3	496.2	461.3	440.7	451.0	485.9	527.9	564.3	567.5
35°	627.0	622.2	599.2	559.6	516.8	495.4	508.9	551.7	599.2	642.0	643.6
37.5°	711.8	707.0	676.9	628.5	578.6	553.2	570.7	616.7	677.7	720.5	730.0
40°	802.9	793.4	765.7	706.2	645.2	619.0	635.7	693.5	759.3	806.1	812.4
42.5°	892.5	886.9	858.4	790.2	720.5	687.2	711.8	768.8	844.9	890.9	898.8
45°	990.0	989.2	958.3	883.8	805.3	768.0	793.4	856.8	929.7	982.8	987.6
47.5°	1093.0	1093.8	1066.9	992.4	897.2	855.2	879.8	951.1	1036.7	1084.3	1089.0
50°	1215.1	1210.3	1192.1	1104.9	1005.0	957.5	989.2	1063.7	1142.9	1193.7	1198.4
52.5°	1343.5	1343.5	1322.1	1242.0	1125.5	1076.4	1103.3	1179.4	1268.2	1314.2	1323.7
55°	1486.1	1479.8	1471.1	1383.9	1265.0	1207.9	1234.9	1321.3	1402.9	1442.6	1443.3
57.5°	1640.7	1634.4	1632.8	1554.3	1418.8	1344.3	1375.2	1456.8	1549.6	1575.7	1583.6
60°	1790.5	1801.6	1795.3	1726.3	1573.3	1489.3	1524.2	1609.8	1699.4	1723.1	1731.1
62.5°	1953.8	1959.3	1976.8	1892.8	1727.9	1638.3	1673.2	1749.3	1840.4	1860.3	1863.4
65°	2094.9	2100.4	2123.4	2044.1	1857.1	1762.8	1802.4	1882.5	1973.6	1991.0	1980.7
67.5°	2178.9	2191.6	2226.4	2151.2	1958.5	1854.7	1895.1	1970.4	2049.7	2065.5	2052.1
68°	2191.6	2201.9	2234.4	2166.2	1971.2	1865.8	1908.6	1983.1	2064.0	2076.6	2066.3
70°	2182.9	2194.7	2235.2	2174.9	1994.2	1893.6	1934.0	1997.4	2071.9	2076.6	2069.5
72.5°	2062.4	2083.8	2123.4	2102.0	1955.4	1864.2	1898.3	1937.1	1988.7	1987.9	1979.2
75°	1831.7	1822.2	1903.9	1914.2	1817.5	1765.1	1781.8	1782.6	1792.9	1778.6	1750.1
77.5°	1464.7	1486.9	1566.2	1635.2	1602.7	1582.1	1585.2	1538.5	1517.9	1456.8	1437.8
80°	1068.4	1085.9	1170.7	1275.3	1322.1	1345.9	1318.9	1230.9	1158.8	1096.2	1074.8
82.5°	729.2	735.5	835.4	936.1	1029.6	1058.1	1034.4	914.7	814.8	748.2	718.9
85°	448.6	458.9	530.3	630.1	740.3	805.3	749.8	630.1	529.5	477.2	465.3
87.5°	263.9	279.8	327.3	402.6	508.1	563.5	520.0	416.1	335.3	297.2	283.0
90°	164.9	174.4	204.5	259.2	340.8	381.2	351.9	270.3	216.4	183.9	173.6
92.5°	114.9	118.1	138.7	173.6	232.2	260.0	235.4	185.5	148.2	123.6	119.7
95°	85.6	88.0	100.7	122.9	160.1	181.5	164.9	130.8	105.4	88.8	86.4
97.5°	67.4	69.0	79.3	93.5	117.3	132.4	122.1	99.9	81.6	68.2	65.8
100°	52.3	53.9	63.4	74.5	91.9	99.9	93.5	78.5	64.2	52.3	50.7
102.5°	41.2	42.0	50.7	61.0	73.7	79.3	74.5	63.4	50.7	40.4	39.6
105°	32.5	33.3	41.2	50.7	61.0	65.0	61.8	52.3	40.4	30.9	30.1
107.5°	25.4	26.2	32.5	42.0	50.7	53.9	50.7	42.8	31.7	24.6	23.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	20.6	20.6	26.9	34.9	42.8	45.2	42.8	34.9	25.4	19.8	19.0
112.5°	17.4	17.4	22.2	29.3	35.7	38.8	35.7	28.5	20.6	15.9	15.9
115°	14.3	15.1	18.2	24.6	30.1	32.5	30.1	23.8	17.4	13.5	13.5
117.5°	12.7	13.5	15.9	20.6	26.2	27.7	25.4	19.8	14.3	11.9	11.9
120°	11.9	11.9	13.5	17.4	22.2	23.8	21.4	17.4	12.7	11.1	11.1
122.5°	11.1	11.1	11.9	15.1	19.0	20.6	18.2	14.3	11.1	10.3	9.5
125°	10.3	10.3	11.1	13.5	16.6	17.4	15.9	12.7	9.5	8.7	8.7
127.5°	9.5	9.5	10.3	11.9	14.3	15.1	14.3	11.1	8.7	8.7	8.7
130°	8.7	8.7	9.5	10.3	12.7	13.5	11.9	9.5	7.9	7.9	7.9
132.5°	7.9	7.9	7.9	9.5	11.1	11.1	10.3	8.7	7.9	7.1	7.1
135°	7.9	7.9	7.9	7.9	9.5	10.3	8.7	7.9	7.1	7.1	7.1
137.5°	7.1	7.1	7.1	7.1	7.9	8.7	7.9	7.1	6.3	6.3	6.3
140°	6.3	6.3	6.3	6.3	7.1	7.1	7.1	5.5	5.5	5.5	5.5
142.5°	5.5	5.5	5.5	5.5	5.5	6.3	5.5	4.8	4.8	4.8	4.8
145°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
147.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
150°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
152.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
155°	1.6	1.6	1.6	1.6	2.4	1.6	2.4	1.6	1.6	1.6	1.6
157.5°	0.8	0.8	1.6	1.6	1.6	2.4	1.6	1.6	0.8	0.8	0.8
160°	0.0	0.8	0.8	0.8	1.6	1.6	1.6	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)