

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: P271206

Luminaire Tested: **XNV-AF-01-LED-U-5NQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24130)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-5NQ-7027-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3559.8 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G0

Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): 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

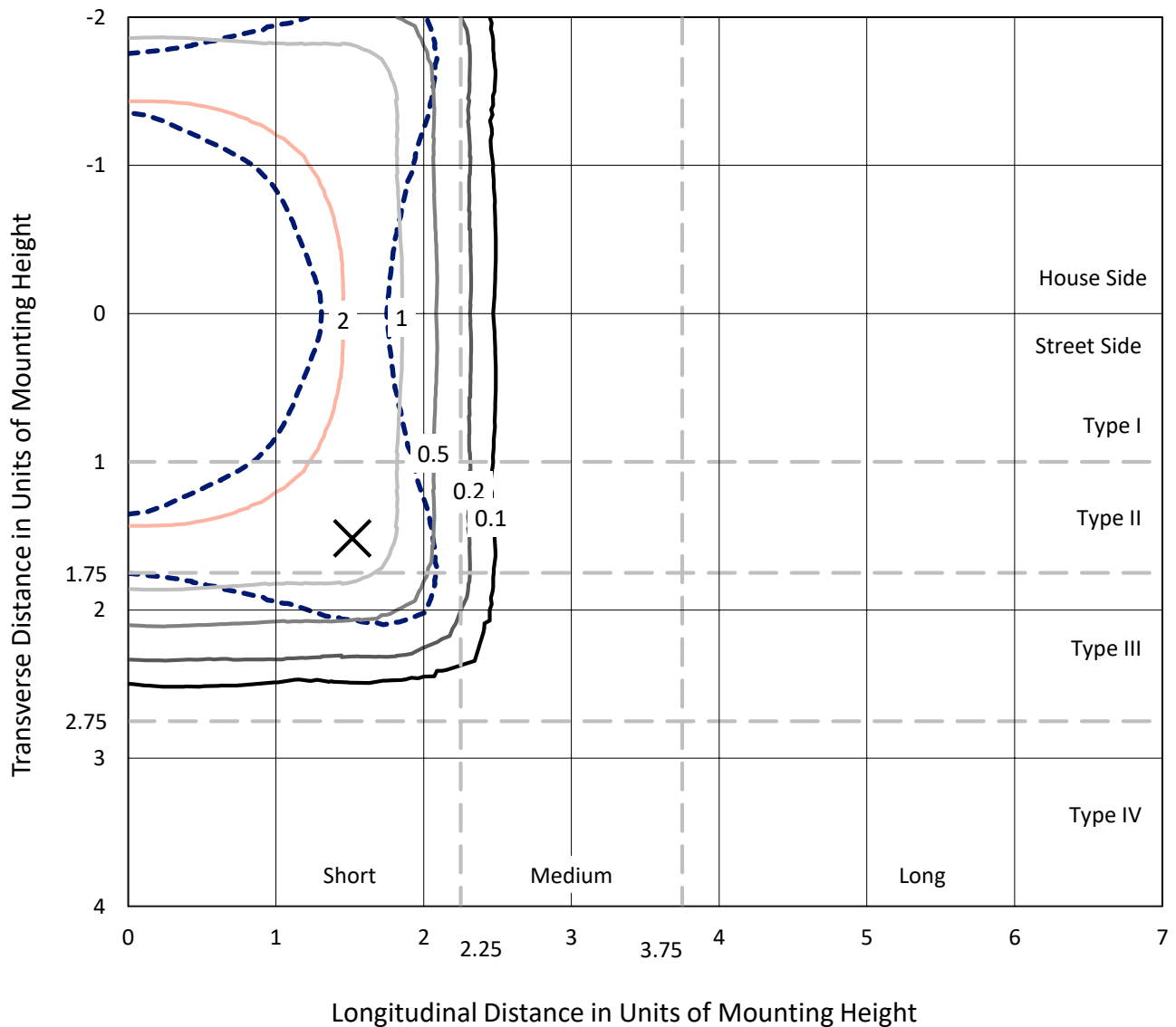


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Iso-Footcandle Lines of Horizontal Illumination

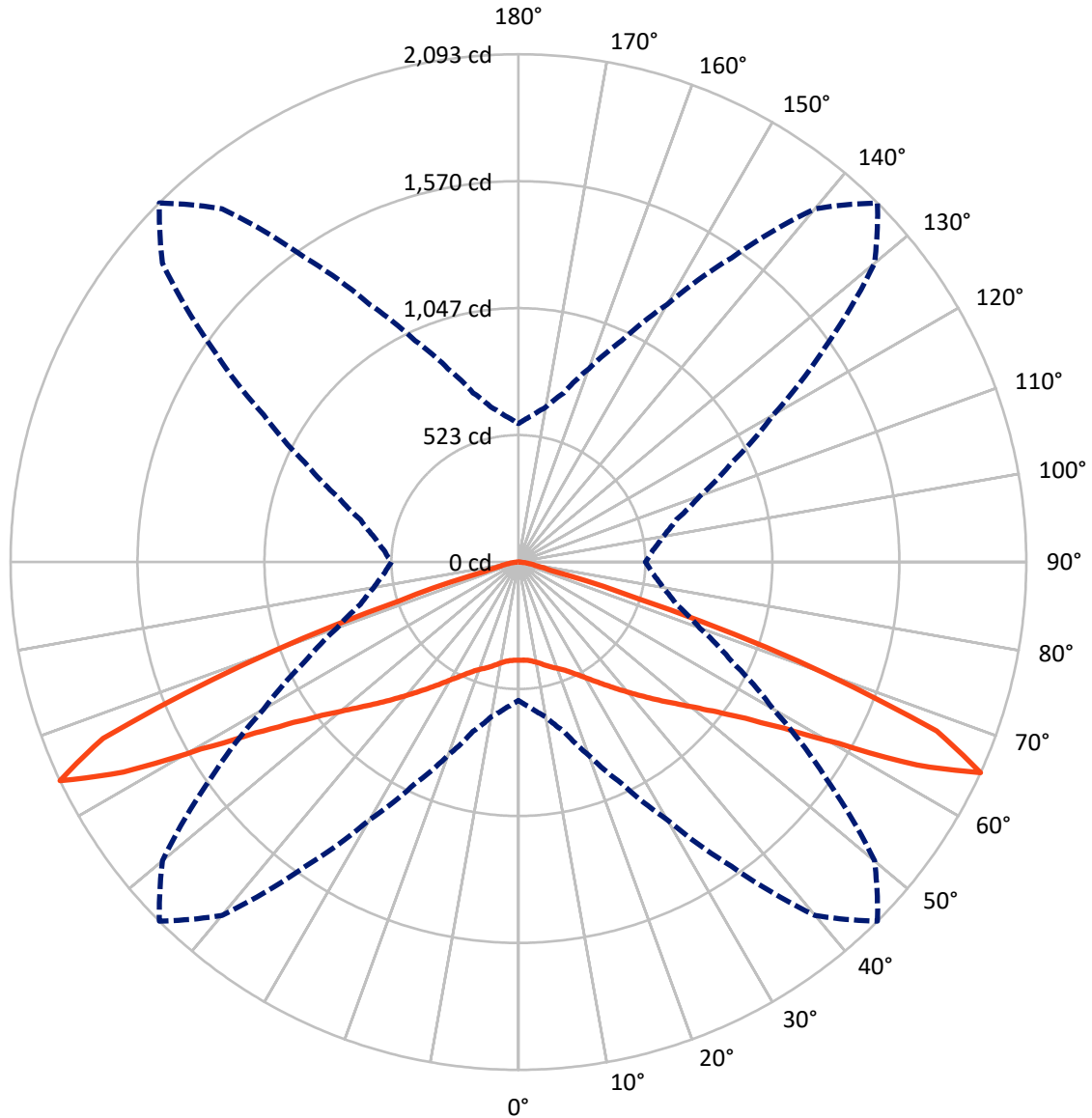
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1779.9	0.0	1779.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1779.9	0.0	1779.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	3559.8	0.0	3559.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	1.1
10°-20°	126.4	3.6
20°-30°	235.8	6.6
30°-40°	397.5	11.2
40°-50°	645.7	18.1
50°-60°	1011.7	28.4
60°-70°	955.0	26.8
70°-80°	128.7	3.6
80°-90°	19.6	0.6
90°-100°	0.0	0.0
100°-110°	0.0	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°	3559.8	100.0
0°-180°	3559.8	100.0



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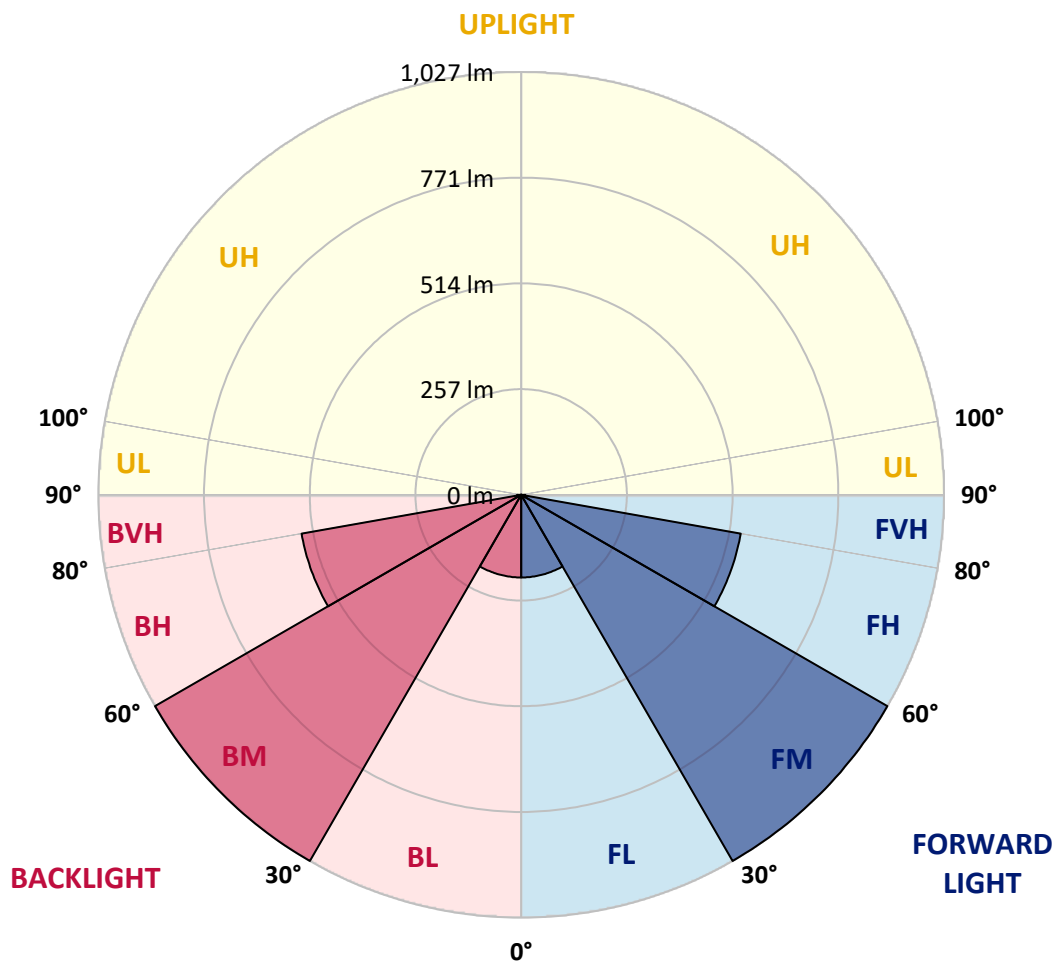
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	200.8	5.6			
FM	(30°-60°)	1027.5	28.9			
FH	(60°-80°)	541.9	15.2			G0/660
FVH	(80°-90°)	9.8	0.3			G0/10
BL	(0°-30°)	200.8	5.6	B1/500		
BM	(30°-60°)	1027.5	28.9	B2/2500		
BH	(60°-80°)	541.9	15.2	B2/1000		G0/660
BVH	(80°-90°)	9.8	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	405.0	405.0	405.0	405.0	405.0	405.0	405.0	405.0	405.0	405.0	405.0
2.5°	408.3	408.3	408.9	408.6	407.8	407.1	406.5	405.6	405.1	404.6	404.4
5°	410.4	410.4	411.2	411.0	410.3	409.4	408.9	408.3	407.7	407.1	407.4
7.5°	416.1	416.3	416.5	416.3	415.6	414.8	413.9	413.8	413.0	412.2	412.7
10°	424.4	424.4	424.7	424.9	424.4	422.9	422.9	422.5	421.6	420.6	420.9
12.5°	433.7	433.7	434.1	434.1	434.1	433.2	433.3	433.2	431.9	431.5	431.9
15°	442.9	443.0	443.0	443.6	443.6	443.8	444.7	444.7	444.2	443.9	443.9
17.5°	453.5	454.0	454.2	454.8	455.0	455.5	456.3	456.6	456.8	456.2	456.3
20°	467.7	467.8	468.6	468.7	469.6	469.6	470.2	470.0	469.5	468.6	468.6
22.5°	483.6	484.0	485.4	485.4	486.5	485.9	486.2	485.4	484.4	483.8	483.4
25°	504.5	505.1	506.3	505.8	506.3	505.1	505.1	505.1	504.5	503.8	503.6
27.5°	530.9	529.8	530.9	530.0	529.8	528.9	529.1	528.7	528.1	527.8	526.9
30°	558.3	557.0	557.7	557.9	557.5	557.3	556.4	555.7	554.7	554.9	554.2
32.5°	589.8	588.5	589.2	589.4	589.0	589.4	589.2	587.6	586.4	587.2	587.2
35°	627.3	626.5	628.3	629.0	627.6	626.8	625.9	624.2	622.3	623.6	623.9
37.5°	672.4	671.3	672.7	674.4	671.9	670.6	667.0	664.3	663.0	663.7	664.6
40°	719.2	719.5	723.1	723.6	720.9	719.5	715.8	711.8	708.0	708.0	709.2
42.5°	768.4	769.0	773.5	775.1	774.2	771.3	766.3	761.6	756.6	757.5	758.9
45°	824.0	823.1	827.8	831.7	830.9	830.0	825.4	816.5	812.1	811.9	814.0
47.5°	882.6	884.3	889.2	895.7	895.4	893.3	887.3	879.0	870.8	871.4	874.2
50°	950.9	953.3	961.5	968.0	968.8	968.3	961.0	951.6	940.0	940.6	944.3
52.5°	1012.1	1015.7	1025.1	1038.5	1046.6	1050.5	1045.7	1037.0	1025.1	1025.9	1029.5
55°	1067.5	1073.0	1087.3	1105.5	1121.9	1137.2	1144.0	1143.8	1135.2	1137.2	1142.0
57.5°	1102.3	1110.1	1131.7	1160.9	1193.5	1224.3	1250.9	1276.0	1281.5	1291.9	1291.9
60°	1055.6	1073.7	1102.3	1152.4	1216.6	1285.7	1360.8	1433.7	1480.6	1517.6	1497.7
62.5°	881.4	908.4	948.4	1014.5	1114.3	1237.9	1388.4	1558.1	1735.0	1843.2	1763.8
65°	570.3	604.1	647.8	722.1	847.8	1006.8	1226.0	1531.0	1901.4	2093.4	1915.9
67.5°	226.0	248.8	275.4	328.2	437.4	593.4	839.6	1215.6	1678.9	1860.1	1661.1
70°	107.9	111.7	116.9	128.2	155.4	209.8	337.4	599.0	1029.5	1220.5	1005.1
72.5°	78.1	78.7	81.1	84.9	93.0	104.1	126.4	183.2	355.0	516.3	355.5
75°	59.2	60.0	61.4	63.4	67.6	72.9	81.3	97.6	121.5	140.1	121.4
77.5°	45.0	46.0	47.0	49.0	51.3	54.9	58.1	64.5	74.6	78.7	78.3
80°	32.8	34.3	36.1	37.9	39.4	41.2	41.5	44.6	50.3	54.1	53.0
82.5°	20.8	22.2	26.8	28.8	29.0	29.6	29.3	29.6	32.6	35.3	34.3
85°	13.4	14.3	16.6	18.9	18.4	19.4	19.4	18.9	17.4	15.1	18.0
87.5°	6.6	6.8	7.9	10.1	9.5	8.4	8.3	8.3	6.0	5.1	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	405.0	405.0	405.0	405.0	405.0	405.0	405.0	405.0
2.5°	403.8	404.2	403.6	403.6	403.3	403.8	403.2	403.2
5°	406.9	407.7	407.4	407.4	407.8	408.3	408.0	407.8
7.5°	412.4	413.0	413.4	413.6	413.9	413.8	414.3	413.9
10°	420.9	420.4	421.1	420.4	420.6	420.2	420.4	420.4
12.5°	431.5	430.8	430.5	430.0	430.0	429.1	429.1	429.3
15°	443.8	442.7	441.7	441.2	440.9	440.9	440.2	440.6
17.5°	455.7	454.6	453.0	453.0	452.3	451.9	451.5	452.6
20°	468.3	467.3	466.4	466.1	464.9	464.3	464.6	466.0
22.5°	483.0	482.3	482.3	481.9	481.0	480.4	480.4	481.9
25°	502.7	501.4	501.7	501.9	501.4	501.4	501.0	502.1
27.5°	526.9	525.8	526.4	526.9	526.4	527.1	526.4	527.3
30°	555.3	554.7	555.3	556.0	554.9	554.9	554.4	555.1
32.5°	589.2	588.3	588.7	588.7	587.2	585.9	584.1	585.4
35°	626.5	625.4	626.3	626.8	625.1	623.9	621.2	622.3
37.5°	667.5	667.9	669.1	671.9	671.5	669.2	667.4	668.2
40°	713.3	715.6	720.5	722.4	722.1	719.8	717.1	717.6
42.5°	765.3	768.2	773.4	776.6	775.1	772.0	768.6	769.9
45°	821.8	826.4	832.9	836.2	834.3	830.9	826.4	828.6
47.5°	881.6	890.6	899.5	903.9	903.2	898.6	892.6	893.3
50°	953.3	965.0	976.4	980.8	977.4	970.3	961.9	961.7
52.5°	1042.5	1055.1	1064.4	1063.4	1055.1	1044.0	1034.5	1034.0
55°	1153.9	1158.0	1156.7	1147.1	1132.8	1115.4	1103.3	1101.2
57.5°	1288.3	1274.2	1253.3	1224.5	1192.2	1159.4	1137.2	1129.0
60°	1453.0	1388.9	1314.3	1235.9	1164.3	1110.6	1076.6	1056.0
62.5°	1588.9	1403.2	1236.7	1100.3	988.9	922.5	876.1	847.6
65°	1542.3	1212.4	971.1	795.2	673.5	605.0	556.0	523.4
67.5°	1191.5	810.1	563.6	390.8	296.4	250.7	219.0	198.4
70°	600.7	310.6	188.3	132.8	113.5	105.6	100.3	97.1
72.5°	176.2	117.8	97.7	86.4	79.6	74.6	71.7	70.1
75°	97.6	79.6	70.2	63.9	59.5	56.1	54.1	52.8
77.5°	67.3	57.9	53.2	49.0	45.5	42.9	41.5	40.2
80°	47.0	42.4	40.3	38.2	35.6	33.4	31.4	30.5
82.5°	31.4	29.3	28.8	27.0	25.5	23.3	19.4	18.0
85°	18.4	18.1	18.1	17.4	16.3	14.5	11.5	11.5
87.5°	6.5	6.6	6.8	7.4	7.0	6.0	4.9	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)